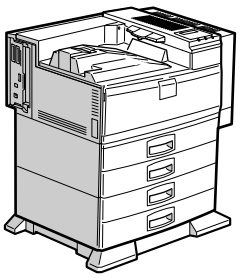
MLP145
P7245
LP145n
Aficio SP 8100DN

Hardware Guide



1 Guide to the Printer
2 Installing Options
3 Connecting the Printer
4 Configuration
5 Paper and Other Media
6 Replacing Consumables
7 Adjusting the Printer
8 Troubleshooting
9 Removing Misfed Paper
10 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.

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

- Microsoft® Windows® 95 operating system
- Microsoft® Windows® 98 operating system
- Microsoft® Windows® Millennium Edition (Windows Me)
- The product names of Windows® 2000 are as follows:
  Microsoft® Windows® 2000 Advanced Server
  Microsoft® Windows® 2000 Server
  Microsoft® Windows® 2000 Professional
- The product names of Windows® XP are as follows:
  Microsoft® Windows® XP Professional
  Microsoft® Windows® XP Home Edition
- The product names of Windows Server™ 2003 are as follows:
  Microsoft® Windows Server™ 2003 Standard Edition
  Microsoft® Windows Server™ 2003 Enterprise Edition
  Microsoft® Windows Server™ 2003 Web Edition
- The product names of Windows NT® 4.0 are as follows:
  Microsoft® Windows NT® Server 4.0
  Microsoft® Windows NT® Workstation 4.0

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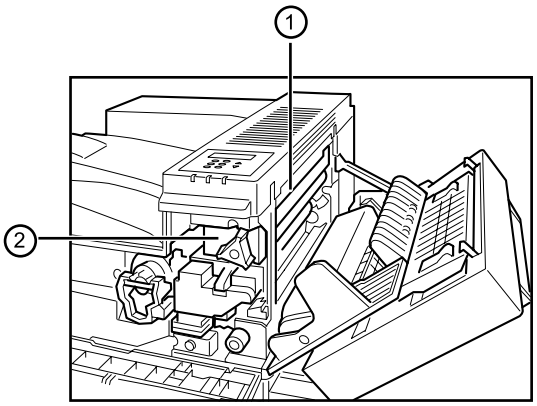
Positions of ⚠WARNING and ⚠CAUTION labels

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.



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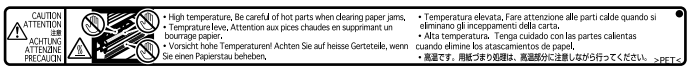
①



High temperature parts. Turn off the main power and be careful when replacing fusing unit/removing misfed paper.

②

The surface of the fusing unit becomes very hot. Do not touch parts labelled "⚠" (indicating a hot surface). Touching these parts will result in burns.

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Manuals for This Printer

For particular functions, see the relevant parts of the manual.

❖ **Safety Information**
Provides information on safe usage of this machine.
To avoid injury and prevent damage to the machine, 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**
Contains information about paper and procedures such as installing options, replacing consumables, responding to error messages, and resolving jams.

❖ **Software Guide**
Contain procedures for using this machine in a network environment, utilizing the software, and using security functions.

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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".

⚠ 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".

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.

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Description for the Specified Model

In this manual, the following items explain about the printer for the specified models:

220-240V

This explains about the 220–240 V model printer.

Read if you purchase this model.

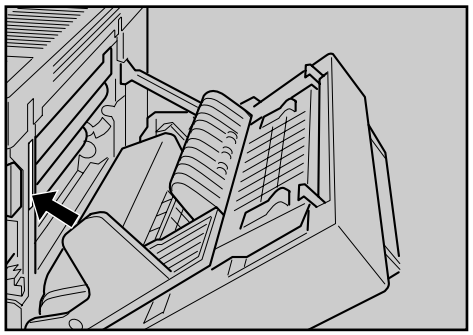
120V

This explains about the 120 V model printer.

Read if you purchase this model.

Note

❒ You can identify the printer's model by checking the label on its inside as shown.



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Installing the Operating Instructions

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

Important

❒ System Requirements :

- Windows 95/98/Me, Windows 2000/XP, Windows Server 2003 or Windows NT4.0.
- 800 × 600 or higher monitor resolution.

❒ Web Browsers :

- Microsoft Internet Explorer 5.5 SP2 or higher
- Firefox 1.0 or higher

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 setting. If this is the case, launch "Setup.exe" on the CD-ROM root directory.

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

4 Click [Install manuals].

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

6 Click [Finish] when the installation is completed.

7 Click [Exit].

Note

❒ Auto Run may not work under certain operating system setting. If this is the case, copy all data on the CD-ROM root directory to your hard disk drive, and then launch "Setup.exe" to start the installation.

❒ To uninstall the Operating Instructions Manual, select **[Programs]** in the **[Start]** menu, select your printer driver, and then click **[uninstall]**. You can uninstall each Manual Guide separately.

❒ If you are using an incompatible Web browser and the simpler version of the Operating Instructions Manual does not display correctly, open the folder "MANUALLANG (language)\(manual name)unv" on the CD-ROM "Manuals", and then double-click on "index.htm".

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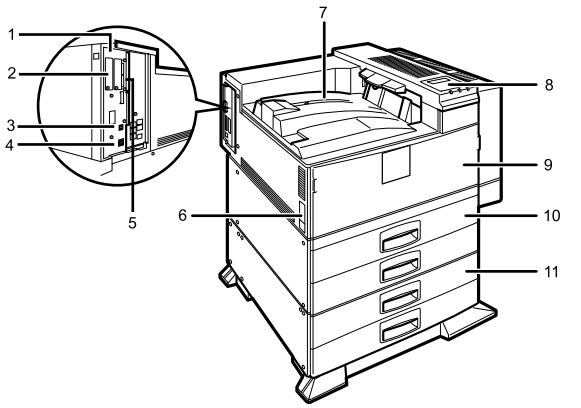
Exterior: Front View



1. Controller Board
Remove this board when installing the hard disk unit, SDRAM modules, or User Account Enhance unit.

2. Optional board slots
Remove the cover when installing the optional board.

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

4. Ethernet Port
Use a network interface cable to connect the printer to the network.

5. Expansion card slot
Insert an optional unit into a slot.

6. Power Switch
Use this switch to turn the printer power on and off.

7. Output Tray
Printed output is stacked here with the print side face down.

8. Control Panel
Contains keys for printing operation and a panel display that shows the printer status.

9. Front Cover
Open this cover if you replace some parts or if a paper misfeed occurs.

10. Paper Tray
Holds up to 550 sheets of plain paper per tray and 1100 sheets in total. (80 g/m^2, 20 lb.)

11. Paper Feed Unit PB 3020 (Option)
Holds up to 550 sheets of plain paper per tray and 1100 sheets in total. (80 g/m^2, 20 lb.)

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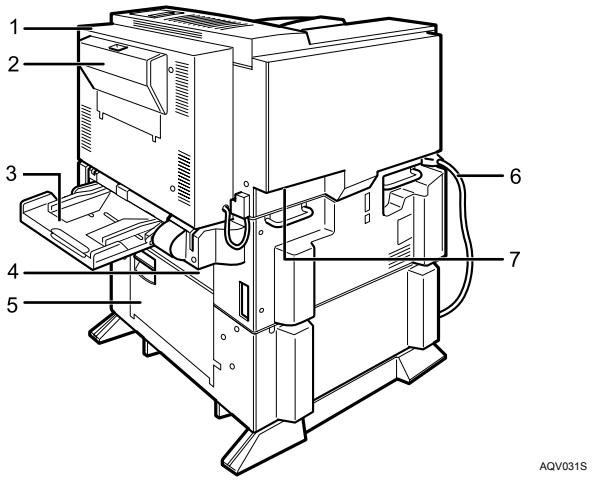
Exterior: Rear View



1. Duplex Unit

Allows you to print onto both sides of the paper.

2. Duplex Unit Right Cover

Open this cover when accessing the inside of the printer.

3. Bypass Tray

Holds up to 50 sheets of plain paper. (80 g/m^2, 20 lb.)

4. Upper Vertical Paper Feed Cover

Open this cover when accessing the inside of the printer.

If you install the optional Large Capacity Tray RT45, remove this cover.

5. Lower Vertical Paper Feed Cover

Open this cover when accessing the inside of the printer.

6. Power Cord

Plug this cord into a wall outlet.

7. Ventilator

Helps to keep components inside the printer from overheating.

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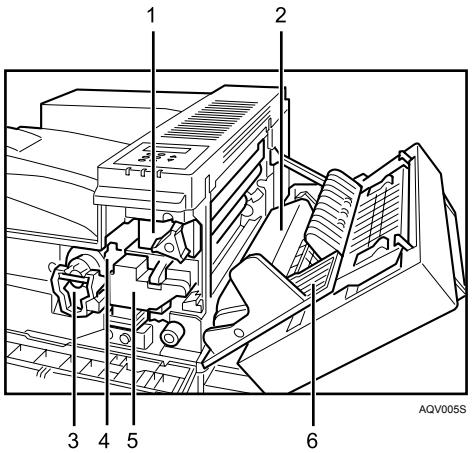
Inside



1. Fusing Unit

When "Replace Maintenance Kit" appears on the panel display, replace this unit.

2. Transfer Unit

When "Replace Maintenance Kit" appears on the panel display, replace this unit.

3. Toner Lock Handle

Turn up the lever when replacing the toner.

4. Toner Holder

Slide this out when replacing the toner.

5. Development Unit

When "Replace Maintenance Kit" appears on the panel display, replace this unit.

6. Right Cover

Open this cover when accessing the inside of the printer.

Reference

For details about the messages which appear on the screen to prompt you to replace the units, see p.99 "Error & Status Messages on the Control Panel".

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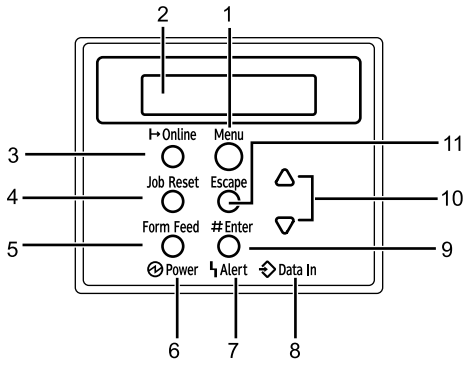
Control Panel



1. 【Menu】 Key

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

2. Panel Display

Shows the current status of the printer and error messages.

3. 【Online】 Key

Press this key to switch the printer between online and offline.

4. 【Job Reset】 Key

When the printer is online, press this key to cancel any ongoing print job.

See "Canceling a Print job", Softtware Guide.

5. 【Form Feed】 Key

If the printer is offline, press this key to print all the data left in the printer's input buffer.

This does not work if the printer is online.

6. Power Indicator

Is on when the printer power is on.

Is off when the power is off or when the printer is in Energy Saver mode.

7. Alert Indicator

Blinks or lights up whenever any printer error occurs. A message describing the cause of the error also appears on the panel display.

8. Data In Indicator

Blinks while the printer is receiving data from a computer.

Is on if there is data to be printed.

9. 【# Enter】 Key

Press this key to execute menu items selected on the panel display.

Press this key to clear some errors.

10. 【▲】【▼】 Keys

Use these keys to increase or decrease values on the panel display when making settings.

11. 【Escape】 Key

Press this key to return to the previous condition on the panel display.

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Available Options

This section describes how to install options.

By installing options, you can improve the printer performance and have an expanded variety of features to use. For the specifications of each option, see p.134 “Specifications”.

⚠ ***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.*
- *Before moving the machine, unplug the power cable from the outlet. If the cable is unplugged abruptly, it could become damaged. Damaged plugs or cables can cause an electrical or fire hazard.*
- *When lifting the machine, use the grips on both sides. The machine could break or cause an injury if dropped.*

Important

❒ The voltage rating of the connector for options is 24 V DC or less.

Option List

The following is a list of options for this printer.

- Finisher SR 3040 *1
- Paper Feed Unit PB 3020 *1
- Large Capacity Tray RT45 *1
- Bridge Unit Type 2045 *1
- Punch Kit Type 1045 *1
- Memory Unit Type D 128MB
- Memory Unit Type E 256MB
- User Account Enhance Unit Type E
- IEEE 802.11b Interface Unit
- IEEE 1284 Interface Board Type A
- Gigabit Ethernet Board Type A
- Printer Hard Disk Drive Type 8100
- VM Card Type D
- Data Storage Card Type A

*1 If you want to install the unit, contact your sales or service representative.

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Option Installation Flow Chart

Installing multiple options in the following order is recommended:

1 Attatch the paper feed unit (Paper Feed Unit PB 3020).

Attach the paper feed unit to the bottom of the printer.

2 Take out the controller board from the printer.

3 Install User Account Enhance Unit (User Account Enhance Unit Type E).

Install the module to the User Account Enhance Unit slot of the controller board.

4 Remove all SDRAM modules before installing the hard disk drive.

5 Install the hard disk drive (Printer Hard Disk Drive Type 8100).

Install the hard disk drive to the controller board.

6 Install the SDRAM module (Memory Unit Type D 128MB, Memory Unit Type E 256MB).

Install the module to the SDRAM module slot on the controller board.

There are two types of memory unit: 128 MB and 256 MB.

7 Install IEEE 1284 interface board, IEEE 802.11b interface unit, or Gigabit Ethernet board.

Install one of these options into the vacant expansion slot (on the left) of the controller board.

The followings can be installed:

- IEEE 1284 Interface Board Type A
- IEEE 802.11b Interface Unit
- Gigabit Ethernet Board Type A

Do not install more than one option. These options do not function simultaneously.

8 Install the VM card (VM Card Type D) or the data storage card (Data Storage Card Type A).

Insert these units into the SD card slot on the controller board.

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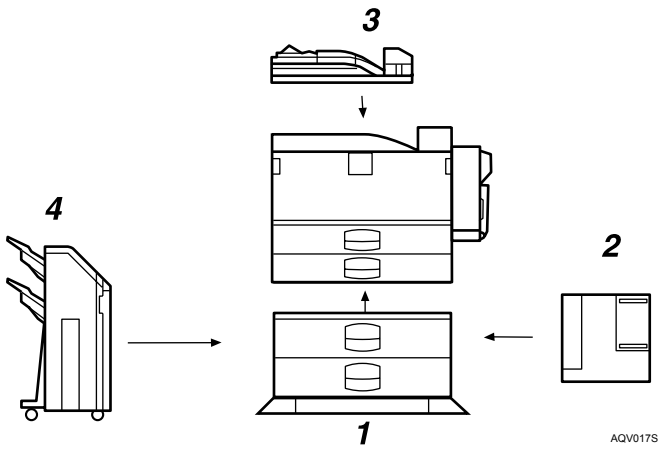
Installing Options

Install options in the positions shown in the illustration.

❖ **Exterior**



1. **Paper Feed Unit PB 3020**

2. **Large Capacity Tray RT45**
   Holds up to 1500 sheets of plain paper. (80 g/m^2, 20 lb.)
   If you want to install the Large Capacity Tray RT45, contact your sales or service representative.

3. **Bridge Unit Type 2045**
   This unit is necessary when using the Finisher.
   If you want to install the Bridge Unit Type 2045, contact your sales or service representative.

4. **Finisher SR 3040**
   If you want to install the Finisher SR 3040, contact your sales or service representative.

Note

❒ Bridge Unit Type 2045 is required when you install Finisher SR 3040.

❒ To use the punch function with the Finisher SR 3040, Punch Kit Type 1045 is required.

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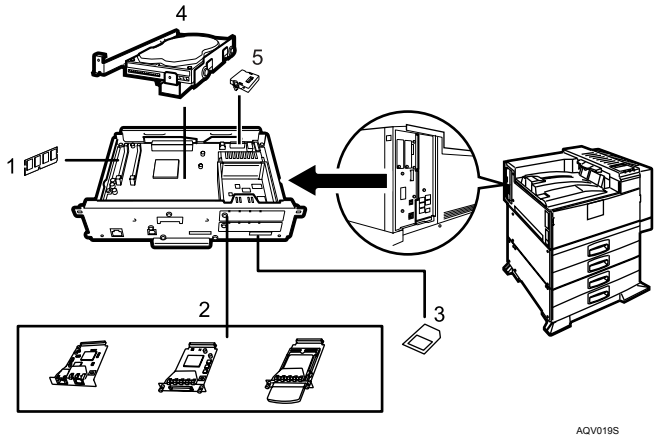
❖ Interior



1. **Memory Unit Type D 128MB/Memory Unit Type E 256MB (SDRAM module)**

Install 128 MB or 256 MB SDRAM module into the controller board slot.

See p.27 "Attaching Memory Unit Type D 128MB, Memory Unit Type E 256MB (SDRAM Module)".

2. **Optional boards**

See p.32 "Attaching IEEE 802.11b Interface Unit".

See p.36 "Attaching IEEE 1284 Interface Board Type A".

See p.38 "Attaching Gigabit Ethernet Board".

3. **Optional units**

See p.41 "Attaching VM Card Type D".

See p.43 "Attaching Data Storage Card Type A".

4. **Printer Hard Disk Drive Type 8100**

See p.20 "Attaching Printer Hard Disk Drive Type 8100".

5. **User Account Enhance Unit Type E**

See p.16 "Attaching User Account Enhance Unit Type E".

Note

❒ You cannot install following options at the same time:

- IEEE 802.11b Interface Unit
- IEEE 1284 Interface Board Type A
- Gigabit Ethernet Board Type A

Reference

For the specifications of each option, see p.134 "Specifications".

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Caution when re-installing the controller board

This section describes handling the controller board when installing options.

If you slide out the controller board to install units, carefully read the instruction to re-install the controller board.

Important

❒ The following may occur if the controller board is not properly installed:

- all control panel indicators are lit.
- no control panel indicators is lit.
- the error message appears on the display.

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Attaching Paper Feed Unit PB 3020

When installing multiple options, install the paper feed unit first.

⚠ ***CAUTION:***

- *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.*
- *When lifting the machine, use the grips on both sides. The machine could break or cause an injury if dropped.*
- *When lifting the paper feed unit, hold the bottom of it, and then lift it slowly. Lifting it carelessly or dropping it may cause an injury.*

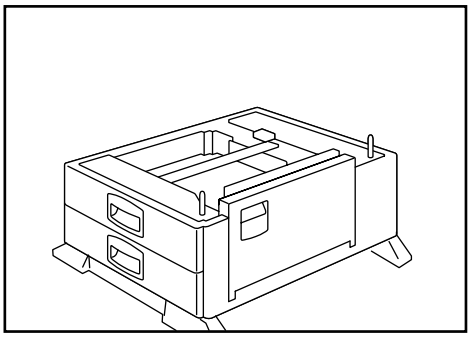
Important

❒ Before using the new paper feed unit, you must make settings in the printer driver.

❒ Check the printer nameplate to confirm the model code.

1 Check the package contains the following:

❖ **Paper Feed Unit PB 3020**



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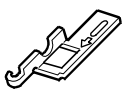
1

2



3

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1. **Screw**

2. **Knob Screw (Finger type)**

3. **Lock Plate**

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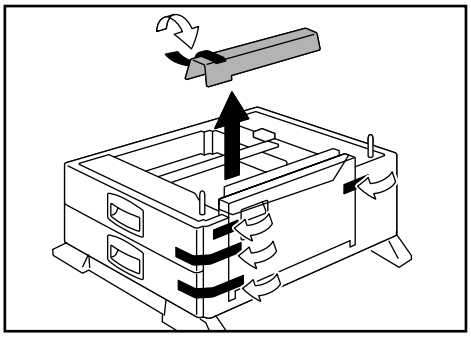
2 **Confirm that the printer is turned off, and the power cord is unplugged from the wall outlet.**

3 **Remove the tape that holds the paper feed unit, and then remove the packing material.**

Do not remove the tape that holds the connector cable inside the connector cover on the back of the paper feed unit in this step. It is removed in the further step.



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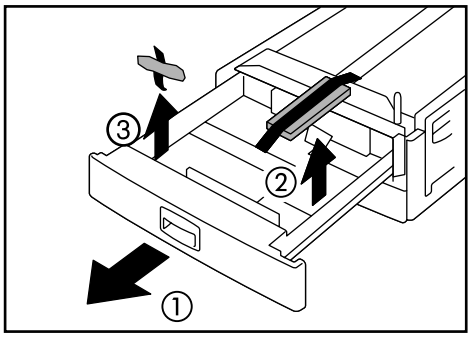

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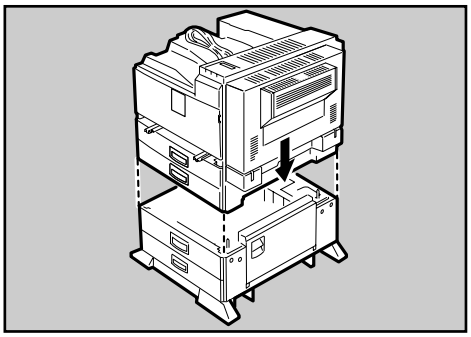
4 Align the printer with the two upright pins on the paper feed unit and then lower the printer slowly.



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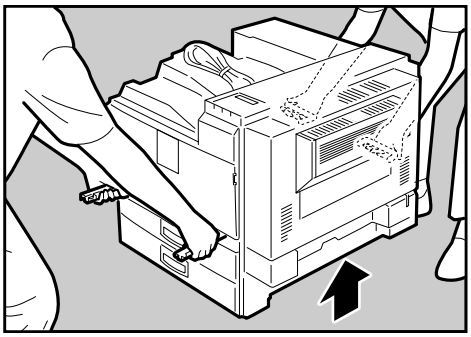
- The printer should be held by least two people.
- When lifting the printer, pull out the grips from the front of the printer. One person should hold the grips on the front and another person should hold the grips on the rear.



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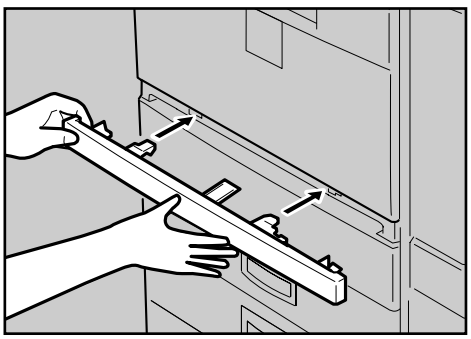
5 Push the grips into the printer. Take out the cover inside Tray 2 and attach it between the paper tray and the front cover.



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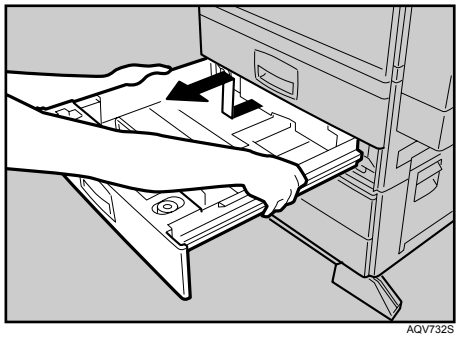
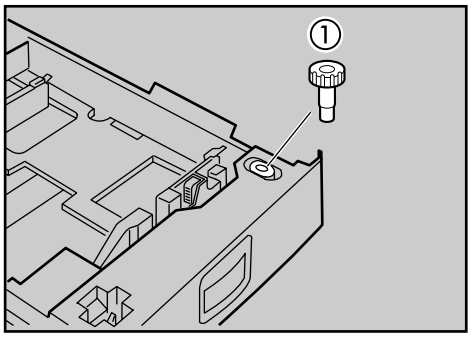
6 **Pull the second paper tray (Tray 2) until it stops. After that, lift it slightly, and then pull it out.**



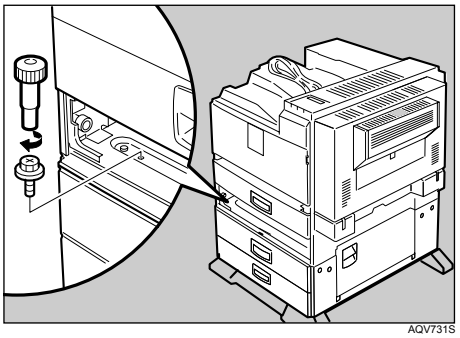
AQV732S

7 **Pull out the first paper tray (Tray 1) , and take the screwdriver (1) from the tray.**



AQV222S

8 **Lock the Paper Bank and the printer with the screw.**



AQV731S

Be sure to return the screwdriver to the paper tray after using it.

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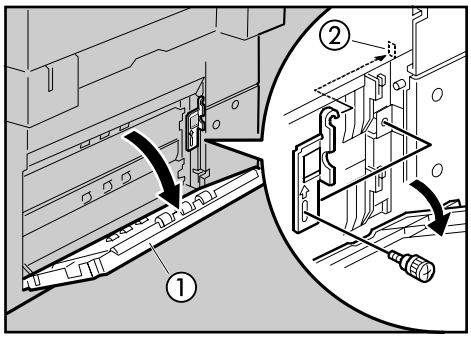
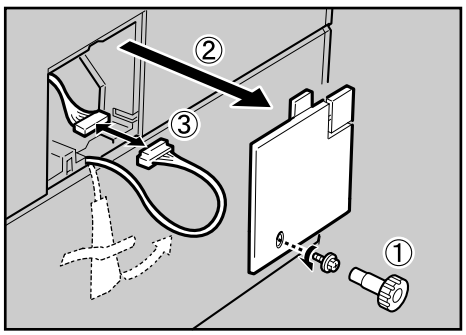
9 **Open the lower vertical paper feed cover on the right side of the paper feed unit (1). Hang the lock plate hook in the hole inside (2), and then fasten the plate with the knob screw using your fingers.**



AQV042S

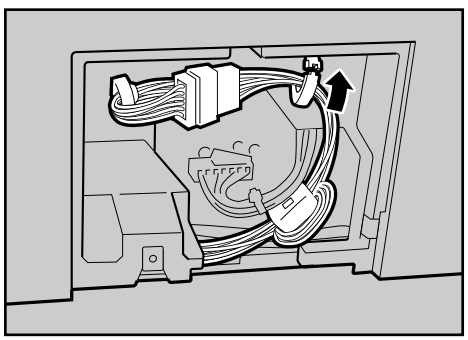
10 **Close the lower vertical paper feed cover.**

11 **Open the connector cover (2), remove the tape that holds the connector cable and attach the connector cables (3) as shown in the illustration.**



AQV009S

12 **Fasten the band as shown until it clicks to secure the cable.**



AQV522S

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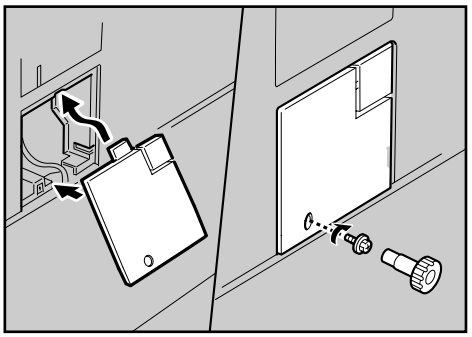
⓭ Close the connector cover.



AQV010S

Note

❒ Print a configuration page to confirm that the paper feed unit is properly installed.

❒ If the paper feed unit is not installed properly, reinstall it following this procedure. If you cannot install it properly even after attempting reinstallation, contact your sales or service representative.

Reference

For printing the configuration page, see "Printing the Test Page", Quick Installation Guide.

For loading paper onto the paper tray, see p.71 "Loading Paper".

When adjusting the printing position, see p.96 "Adjusting Tray Registration".

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Attaching User Account Enhance Unit Type E

⚠ ***CAUTION:***

- *Do not touch the inside of the controller board compartment. Doing so may cause a malfunction or a burn.*

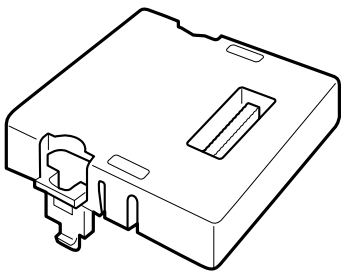
Important

❒ Before touching the User Account Enhance Unit, ground yourself by touching something metal to discharge any static electricity. Static electricity can damage User Account Enhance Unit.

❒ Do not subject User Account Enhance Unit to physical shocks.

1 **Check the package contains the following:**

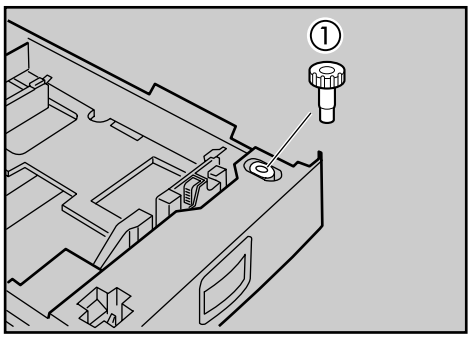
❖ **User Account Enhance Unit Type E**



AET080S

2 **Turn off the printer.**

3 **Pull out the first paper tray (Tray 1) and take the screwdriver (1) from the tray. Each screw to be removed requires this screwdriver.**



AQV222S

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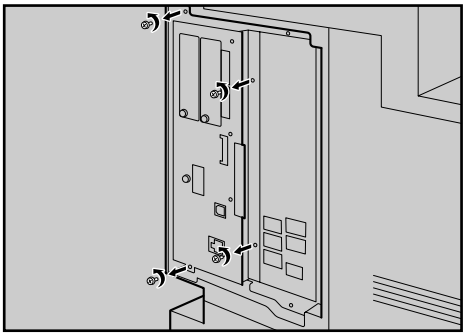
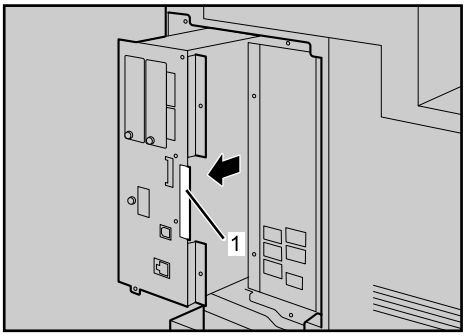
4 **Remove the screws as shown by turning them counterclockwise using the provided screwdriver.**



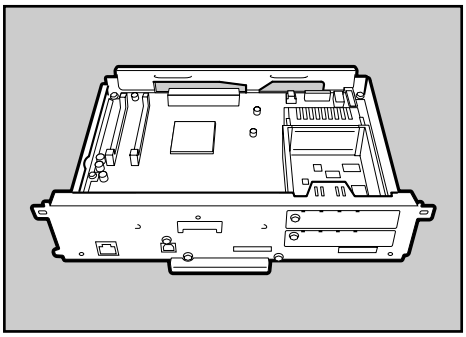
AQV500S

5 **Hold the part (1) of the controller board, and then slide it out completely.**



AQV501S

6 **Place the controller board on a flat surface.**



AQV516S

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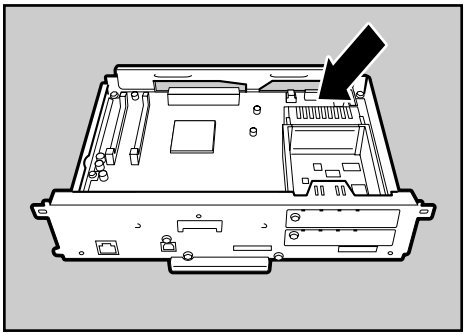
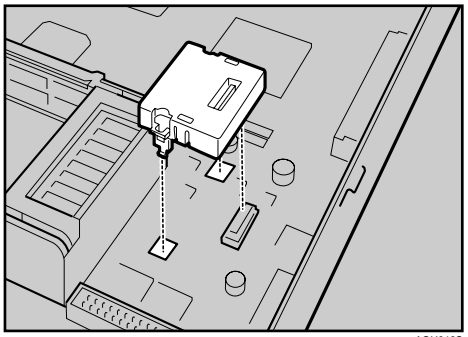
7 **Be sure to install the User Account Enhance Unit as shown.**



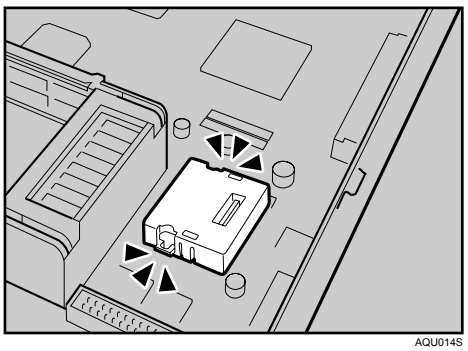
AQU012S

8 **Align the notch of User Account Enhance Unit, and then insert it into the controller board, pressing it down until it clicks into place.**



AQU013S

9 **Make sure that User Account Enhance Unit is firmly connected to the controller board.**



AQU014S

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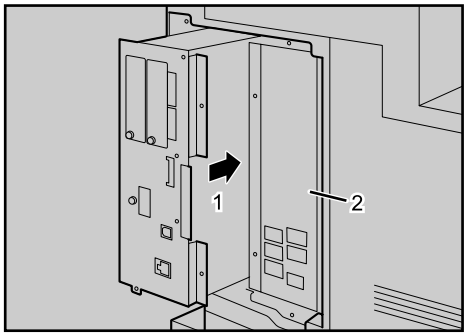
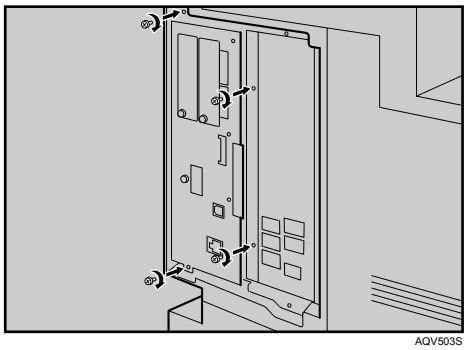
10 Store the controller board (1) into the printer while gently pressing the cover (2).



Push in the controller board firmly to align the rails in the printer's compartment.

11 Fasten all the screws which you removed in step 4.



The printer may malfunction if the controller board is not properly installed.

Note

- ❒ Be sure to return the screwdriver to the paper tray after using it.
- ❒ After finishing installation, you can check whether the User Account Enhance Unit is properly installed: Print the configuration page from the **[List/Test Print]** menu. If it is installed properly, "Accounting Module" will appear for "Device Connection" on the configuration page.
- ❒ If the User Account Enhance unit is not installed properly, reinstall it following this procedure. If you cannot install it properly even after attempting reinstallation, contact your sales or service representative.
- ❒ Install the controller board carefully to prevent any malfunction.

Reference

For printing the configuration page, see "Printing the Test Page", Quick Installation Guide.

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Attaching Printer Hard Disk Drive Type 8100

⚠ ***CAUTION:***

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

Important

❒ Before installation, be sure to remove all SDRAM modules from the controller board to prevent from damaging them.

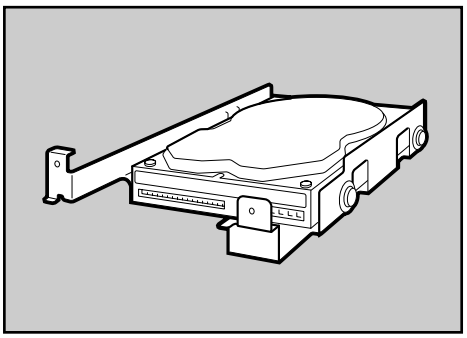
❒ Before touching the hard disk drive, touch something metal to discharge any static electricity. Static electricity can damage the hard disk drive.

❒ Do not subject the hard disk drive to physical shocks.

❒ Before using the new hard disk drive, be sure to make the settings in the printer driver.

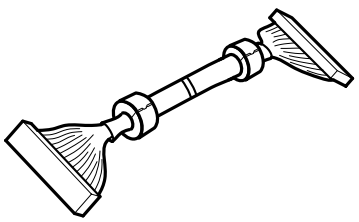
1 Check the package contains the following:

❖ **Hard Disk Drive**



AQV518S

❖ **Flat Cable**



AQC500S

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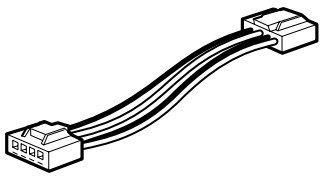
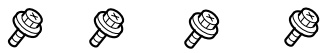
❖ **Power Cable**



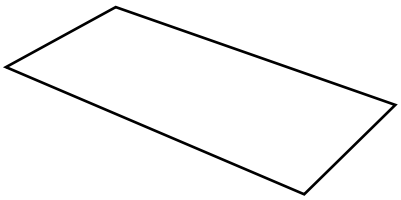
AQV760S

❖ **Supplied Screws**



AQV739S

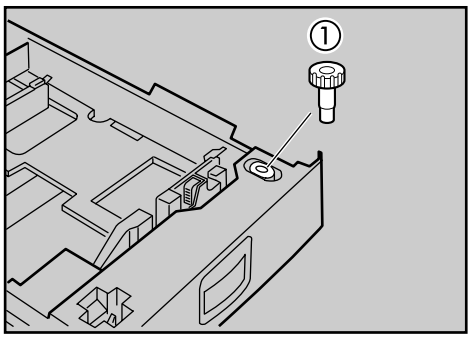
❖ **Protective Sheet**



AQV740S

2 **Turn off the printer.**

3 **Pull out the first paper tray (Tray 1) and take the screwdriver (1) from the tray. Each screw to be removed requires this screwdriver.**



AQV222S

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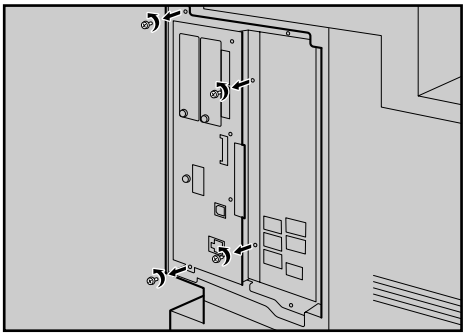
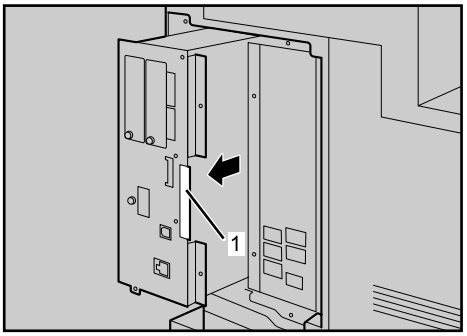
4 **Remove the screws as shown by turning them counterclockwise using the provided screwdriver.**



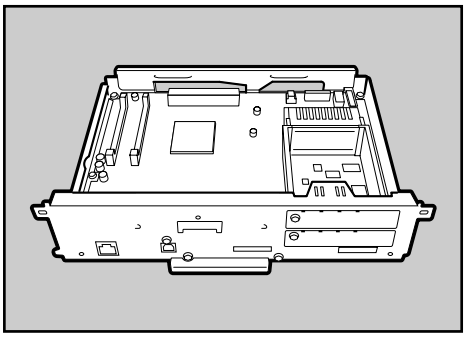
AQV500S

5 **Hold the part (1) of the controller board, and then slide it out completely.**



AQV501S

6 **Place the controller board on a flat surface.**



AQV516S

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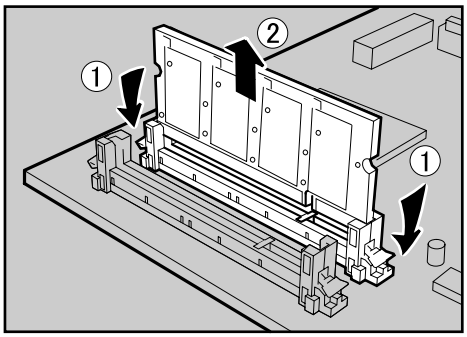
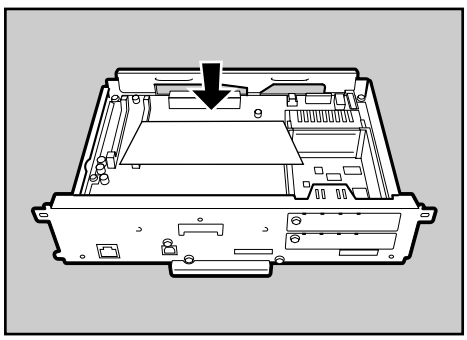
7 Remove the default or optional SDRAM module before installing the hard disk drive. Press down the levers on both sides (1) to remove the SDRAM module (2).



AQV763S

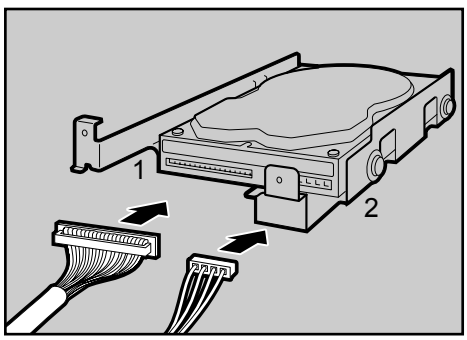
Be sure not to leave any SDRAM module in the slots. Doing so may damage SDRAM modules when installing the hard disk drive.

8 Place the protective sheet on the controller board as shown, to protect the controller board.



AQV736S

9 Connect the flat cable (1) and power cable (2) to the hard disk drive.



AQV519S

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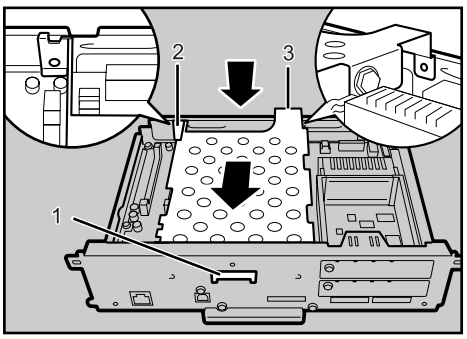
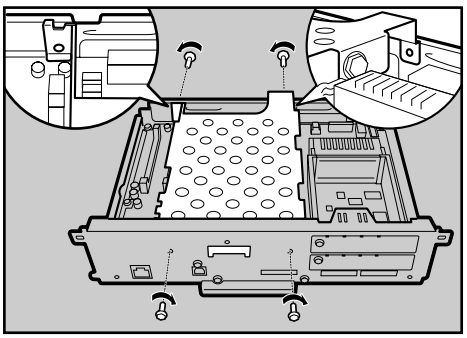
10 Carefully insert the hard disk drive into the controller board as shown.

There is a lip cut into the center of the front end of the hard disk drive's casing. Hook this part over the flange (curled part) in the slot (1) on the controller board, and then align (2) and (3) with the screw holes in the rear edge of the controller board.



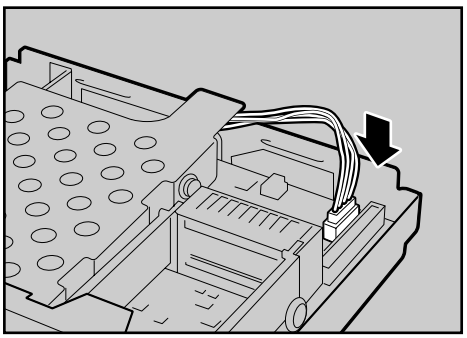
AQV517S

11 Fasten the screws clockwise as shown by using the provided screwdriver, to secure the hard disk drive.



AQV730S

12 Connect the power cable to the socket on the controller board.



AQV520S

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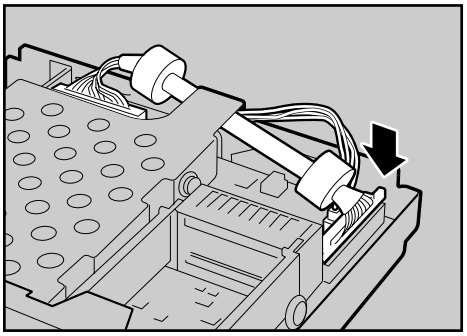
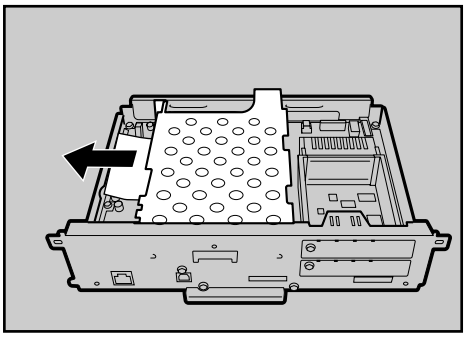
13 Connect the blue end of the flat cable to the socket on the controller board.



AQV521S

When installing an SDRAM module on the controller board, do not store the controller board to the printer, and attach an SDRAM module.

14 Remove the protective sheet when installing the hard disk drive is completed.



AQV737S

Be sure to check whether the hard disk drive is completely secured before removing the sheet.

15 Install the default or optional SDRAM modules into the slot.

For details about installing the SDRAM modules, see p.27 “Attaching Memory Unit Type D 128MB, Memory Unit Type E 256MB (SDRAM Module)”.

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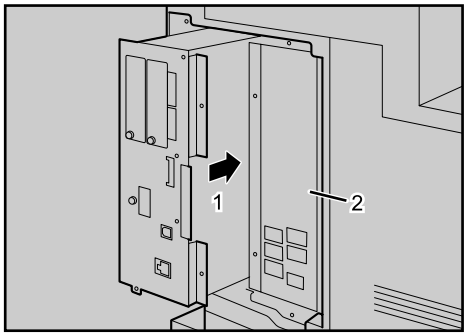
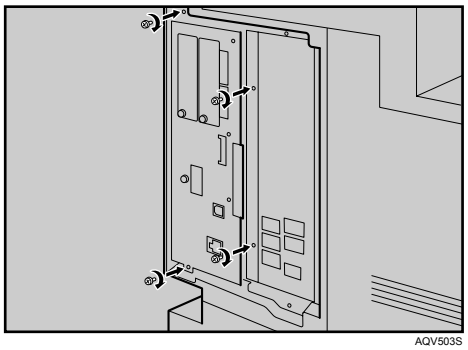
16 Store the controller board (1) into the printer while gently pressing the cover (2).



Push in the controller board firmly to align the rails in the printer's compartment.

17 Fasten all the screws which you removed in step 4.



The printer may malfunction if the controller board is not properly installed.

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

Note

- ❒ Be sure to return the screwdriver to the paper tray after using it.
- ❒ After finishing installation, you can check whether the hard disk drive is properly installed: Print the configuration page from the **[List/Test Print]** menu. If it is installed properly, "Printer Hard Disk Drive" will appear for "Device Connection" on the configuration page.
- ❒ If the hard disk drive is not installed properly, reinstall it following this procedure. If you cannot install it properly even after attempting reinstallation, contact your sales or service representative.
- ❒ Install the controller board carefully to prevent any malfunction.

Reference

For printing the configuration page, see "Printing the Test Page", Quick Installation Guide.

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Attaching Memory Unit Type D 128MB, Memory Unit Type E 256MB (SDRAM Module)

⚠ ***CAUTION:***

- *Do not touch the inside of the controller board compartment. Doing so may cause a malfunction or a burn.*

Important

❒ Be sure to install SDRAM modules after installing the hard disk drive.

❒ Before touching the memory unit, ground yourself by touching something metal to discharge any static electricity. Static electricity can damage the memory unit.

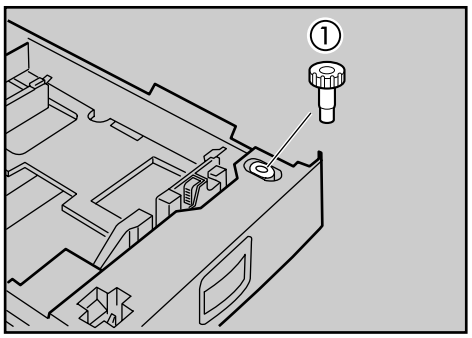
❒ Do not subject the memory unit to physical shocks.

❒ Available memory varies depending on a model type.

❒ Before using the new memory unit, Be sure to make settings in the printer driver.

1 Turn off the printer.

2 Pull out the first paper tray (Tray 1) and take the screwdriver (1) from the tray. Each screw to be removed requires this screwdriver.



AQV222S

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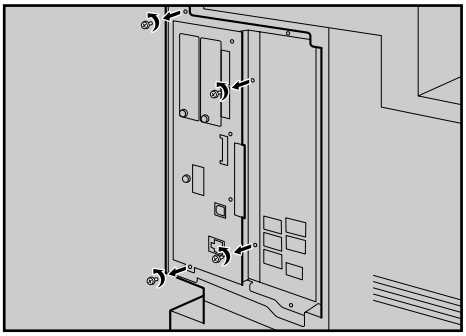
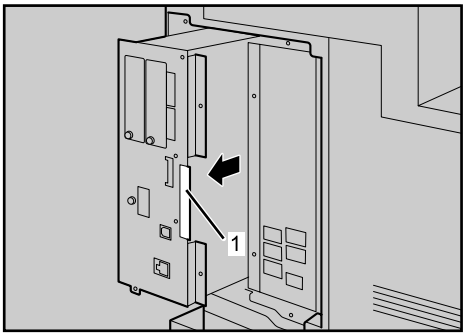
3 **Remove the screws as shown by turning them counterclockwise using the provided screwdriver.**



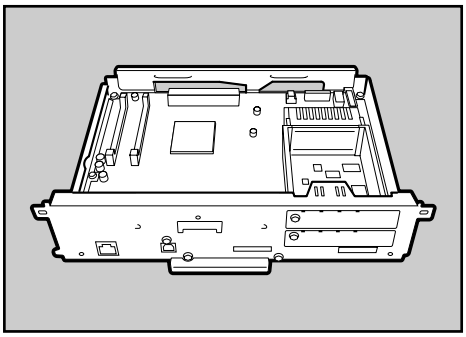
AQV500S

4 **Hold the part (1) of the controller board, and then slide it out completely.**



AQV501S

5 **Place the controller board on a flat surface.**



AQV516S

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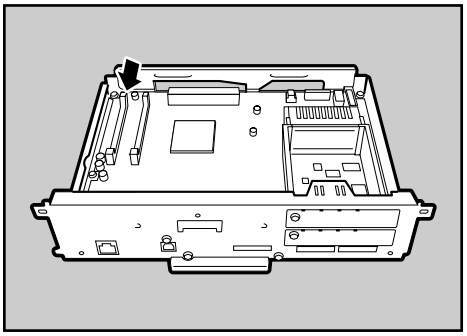
6 Be sure to install the SDRAM module into the slot as shown.



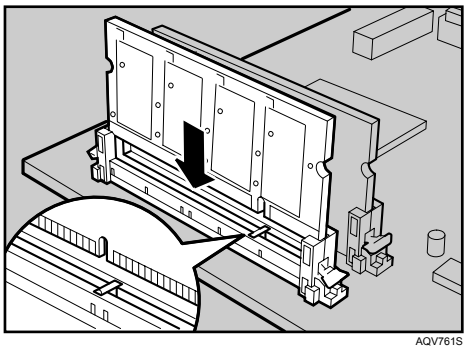
AQV560S

Two slots are provided for the SDRAM modules.

The default SDRAM module is installed in the inner slot.

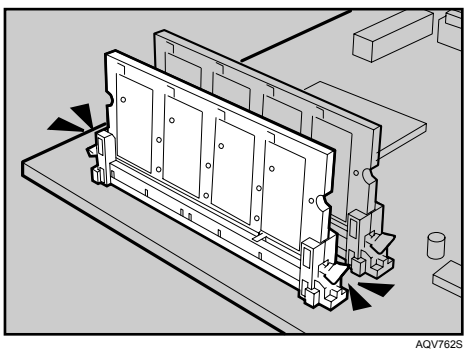
To install an additional memory, attach an additional SDRAM module to the outer slot, or replace the default SDRAM module.

7 When installing an SDRAM module in a vacant slot, align the notch of the SDRAM module with the slot, and then insert the module vertically.



AQV761S

8 Press down the SDRAM module, until it clicks into place.



AQV762S

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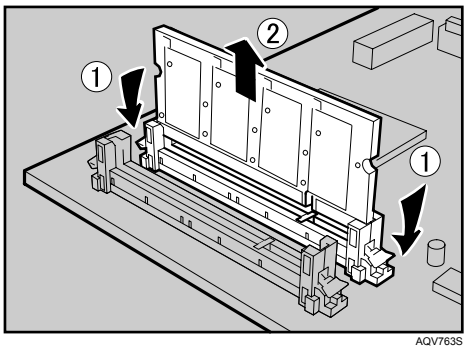
9 When replacing the default SDRAM module, press down the levers on both sides (①) to remove the default module (②).

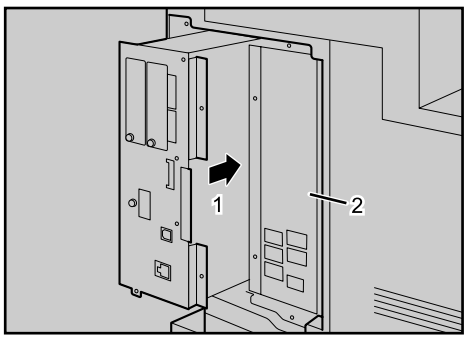


AQV763S

Install a new SDRAM module.

To increase memory capacity to the maximum of 512 MB, remove the default SDRAM module, and then install two 256 MB SDRAM modules.

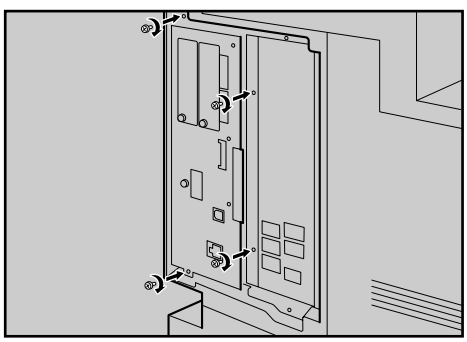
10 Store the controller board (1) into the printer while gently pressing the cover (2).



AQV502S

Push in the controller board firmly to align the rails in the printer's compartment.

11 Fasten all the screws which you removed in step 3.



AQV503S

The printer may malfunction if the controller board is not properly installed.

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Note

❒ Be sure to return the provided screwdriver to its original position on the inside of the front cover.

❒ After finishing the installation, you can check the memory unit is properly installed: Print the configuration page from the **[List/Test Print]** menu. If it is installed properly, the memory capacity will appear under "Total Memory" on the configuration page.

❒ The table below shows the total SDRAM module capacities.

Standard	Extended	Total
128 MB	128 MB	256 MB
128 MB	256 MB	384 MB
256 MB	128 MB	384 MB
256 MB	256 MB	512 MB

❒ If the memory unit is not properly installed, repeat this procedure. If you cannot install it properly even after reinstallation, contact your sales or service representative.

❒ Install the controller board carefully to prevent any malfunction.

Reference

For printing the configuration page, see "Printing the Test Page", Quick Installation Guide.

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Attaching IEEE 802.11b Interface Unit

⚠ ***CAUTION:***

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

2

Important

❒ For using the IEEE 802.11b interface unit, installing the optional SDRAM module is required. If the optional SDRAM module is not installed, the printer does not detect the unit, and also it does not function because of memory shortage.

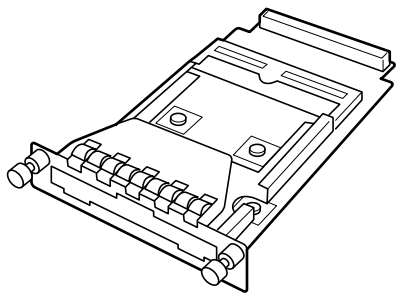
❒ Before touching the 802.11b interface unit, touch something metal to discharge any static electricity. Static electricity can damage the 802.11b interface unit.

❒ Do not subject the 802.11b interface unit to physical shocks.

1 Check the contents of the package for the following:

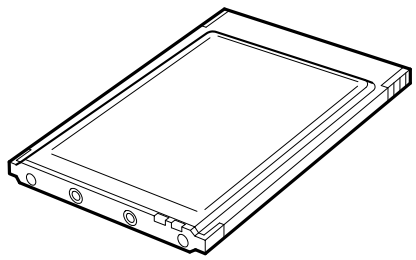
❖ **IEEE 802.11b Interface Unit**

- Interface Unit



AAL151S

- Card



ZHBP420E

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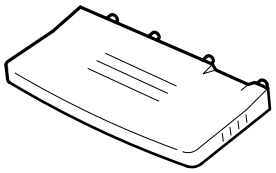
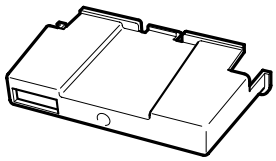
- Antenna



ZHBP430E

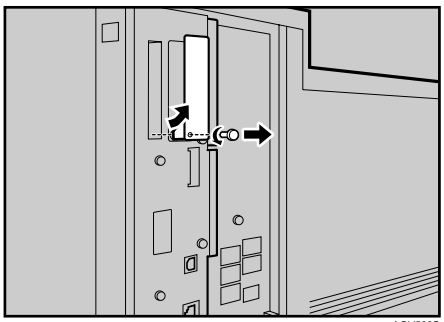
- Antenna Cap



AAL888S

2 **Turn off the power, and then unplug the power cable.**

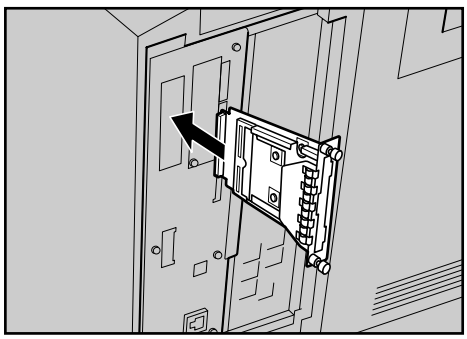
3 **Remove the screw by turning it counterclockwise using the provided screwdriver, and then remove the cover of the 802.11b interface board slot.**



AQV509S

The removed cover is not used when installing the interface unit.

4 **Fully insert the 802.11b interface board into the slot.**



AQV510S

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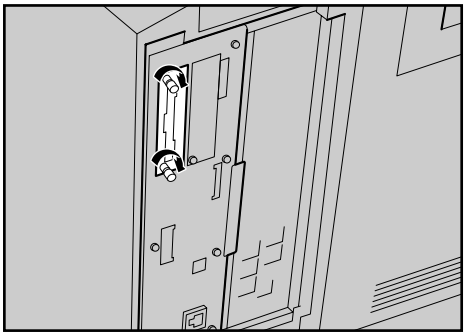
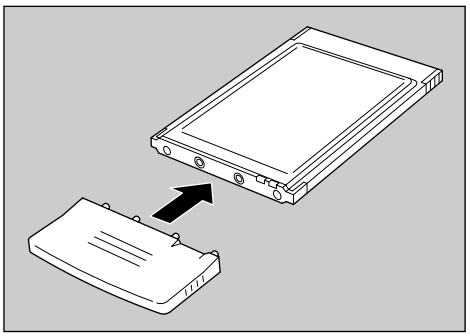
5 **Tighten the two screws to secure the interface board.**



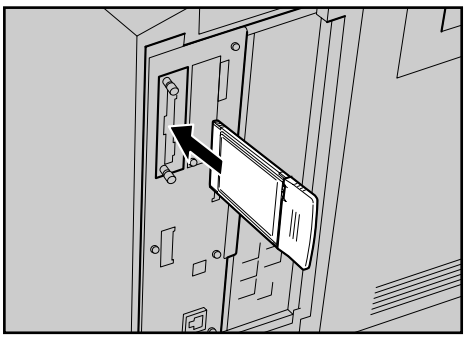
AQV523S

6 **Attach the antenna to the card with the label facing down and the uneven side of the antenna facing up.**



AET096S

7 **With the antenna and the indented end toward you, slowly insert the interface card until it stops.**



AQV511S

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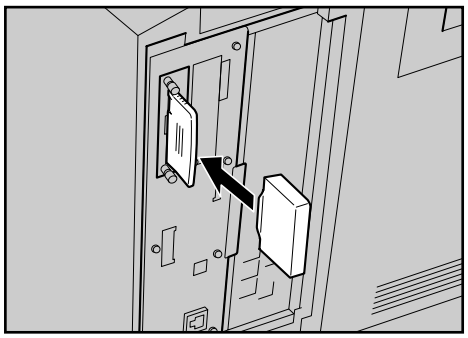
8 Hold the antenna cap with the cut off corners towards you and fit it over the card.



AQV512S

Note

❒ After finishing installation, you can check the 802.11b interface unit is properly installed: Print the configuration page from the **[List/Test Print]** menu. If it is installed properly, "IEEE 802.11b" will appear for "Device Connection" on the configuration page.

❒ If the 802.11b interface unit is not installed properly, reinstall it following this procedure. If you cannot install it properly even after attempting reinstallation, contact your sales or service representative.

Reference

For printing the configuration page, see "Printing the Test Page", Quick Installation Guide.

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Attaching IEEE 1284 Interface Board Type A

⚠ ***CAUTION:***

- *Do not touch inside the controller board compartment. Doing so may cause a machine malfunction or a burn.*

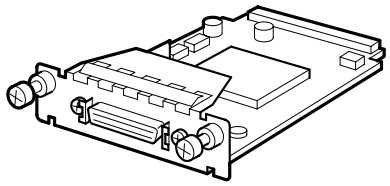
Important

❒ Before handling the 1284 interface board, touch something metal to discharge static electricity. Static electricity thing damage the 1284 interface board.

❒ Do not subject the 1284 interface board to physical shocks.

1 **Check the package contains the following:**

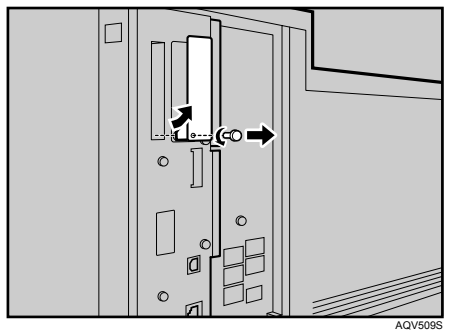
❖ **IEEE 1284 Interface Board Type A**



ABT041S1

2 **Turn off the power, and then unplug the power cable.**

3 **Remove the screw by turning it counterclockwise using the provided screwdriver, and then remove the cover of the IEEE 1284 interface board slot.**



AQV509S

The removed cover is not used when installing the 1284 interface board.

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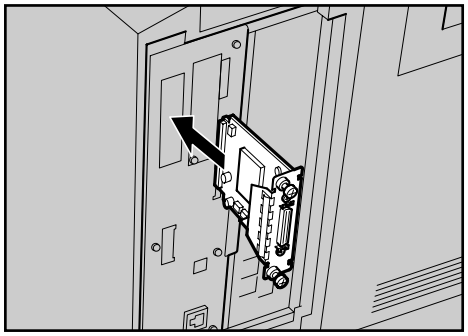
4 **Fully insert the 1284 interface board into the slot.**



AQV513S

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

5 **Tighten the two screws to secure the 1284 interface board.**

AQV524S

Note

❒ Use the supplied adaptor to make the connection with the computer.

❒ After finishing installation, you can check the 1284 interface board is properly installed: Print the configuration page from the **[List/Test Print]** menu. If it is installed properly, "Parallel Interface" will appear for "Device Connection" on the configuration page.

❒ If the 1284 interface board is not installed properly, reinstall it following this procedure. If you cannot install it properly even after attempting reinstallation, contact your sales or service representative.

Reference

For printing the configuration page, see "Printing the Test Page", Quick Installation Guide.

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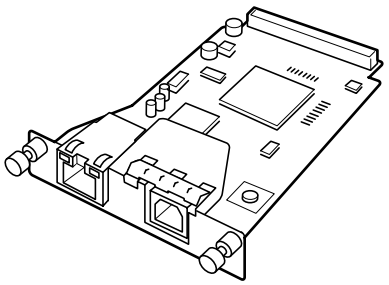
Attaching Gigabit Ethernet Board

Important

- ❒ The printer's ethernet and USB ports are not available when the gigabit ethernet board is attached to the printer. Instead, you can use the ethernet port and USB port mounted on the board.
- ❒ Before handling the gigabit ethernet board, ground yourself by touching something metal to discharge any static electricity. Static electricity can damage the gigabit ethernet board.
- ❒ Do not subject the gigabit ethernet board to physical shocks.

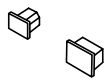
1 Check the contents of the box.

❖ **Gigabit Ethernet Board Type A**



AGY096S

❖ **Protective caps (one each for the ethernet port and the USB port)**



AGY097S

2 Turn off the power, and then unplug the power cable.

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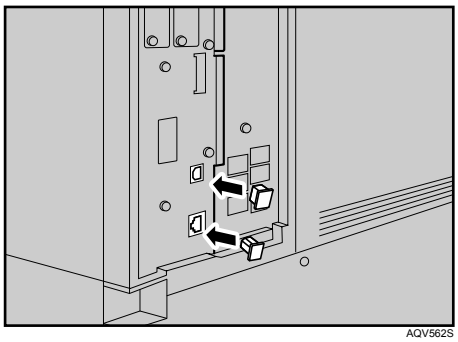
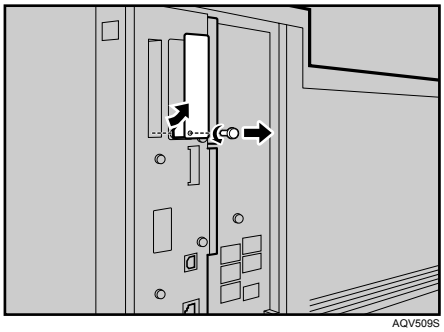
3 **Disconnect the cables from the ethernet port and the USB port of the printer, and cover each port with its protective cap.**



AQV562S

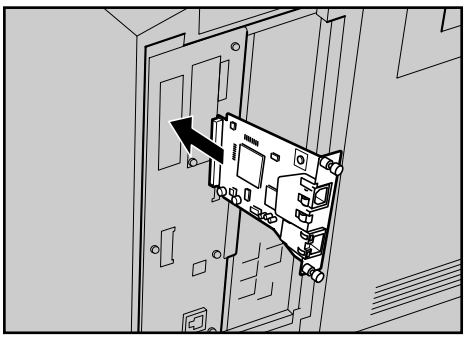
4 **Remove the screw by turning it counterclockwise using the provided screwdriver, and then remove the cover of the Gigabit ethernet board slot.**



AQV509S

The removed cover is not used when installing the interface unit.

5 **Fully insert the Gigabit ethernet board into the slot.**



AQV514S

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6 Tighten the two screws to secure the Gigabit ethernet board.

AQV525S

Check the Gigabit ethernet board is connected firmly to the controller board.

Note

- After finishing installation, check the Gigabit ethernet board is installed properly: print the configuration page from the **[List/Test Print]** menu. If it is installed properly, you will see "Gigabit Ethernet Board" for "Device Connection" on the configuration page.
- If the Gigabit ethernet board is not installed properly, reinstall it following this procedure. If you cannot install it properly even after attempting reinstallation, contact your sales or service representative.
- You need to make settings with the control panel before using the gigabit ethernet board. For details, see p.51 "Ethernet Configuration".

Reference

For details about printing the configuration page, see "Printing the Test Page", Quick Installation Guide.

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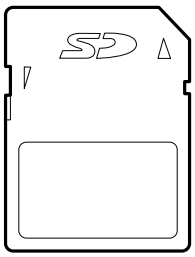
Attaching VM Card Type D

Important

- ❒ For using the VM card, installing the optional SDRAM module is required. If the optional SDRAM module is not installed, the printer does not detect the unit, and also it does not function because of memory shortage.
- ❒ Protect VM Card Type D from physical shocks.
- ❒ Using the upper slot is recommended for inserting the unit.

1 Check the package contains the following:

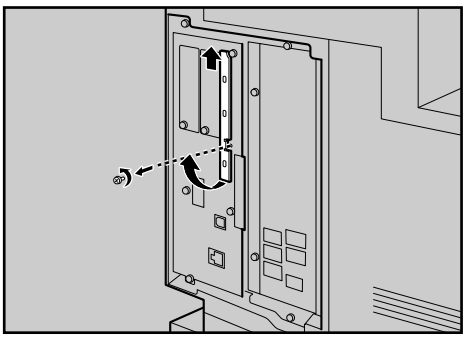
❖ **VM Card Type D**



AET104S

2 Turn off the power, and then unplug the power cable.

3 Remove the cover of the expansion card slot.



AQV504S

4 Carefully insert the VM card into the slot, until the card clicks into place.

AQV553S

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Note

❒ Do not touch the VM card while the printer is in use. It may come loose, even if pushed only slightly.

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Attaching Data Storage Card Type A

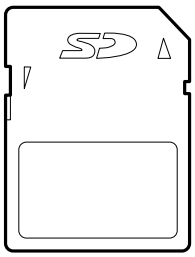
Important

❒ Protect the data storage card from physical shocks.

❒ Using the upper slot is recommended for inserting the unit.

1 **Check the package contains the following:**

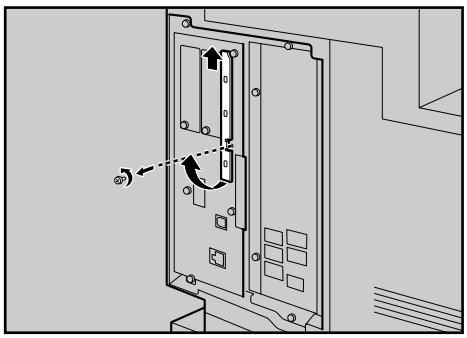
❖ **Data Storage Card Type A**



AET104S

2 **Turn off the power, and then unplug the power cable.**

3 **Remove the cover of the expansion card slot.**



AQV504S

4 **Carefully insert the data storage card into the slot, until the card clicks into place.**

AQV553S

Note

❒ Do not touch the data storage card while the printer is in use. It may come loose, even if pushed only slightly.

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Network Connection

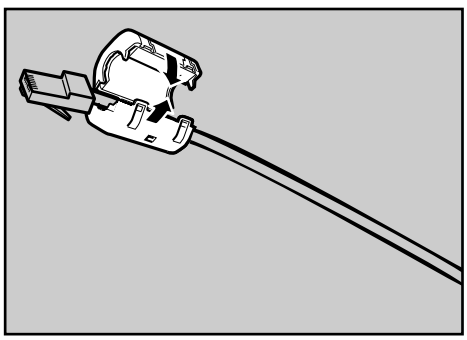
Follow the procedure below to connect the printer to the computer through the network. Prepare the hub and other network devices before connecting the 10BASE-T or 100BASE-TX cable to the printer's Ethernet port.

Alternatively, the optional gigabit ethernet board, which supports 1000BASE-T, is available.

Important

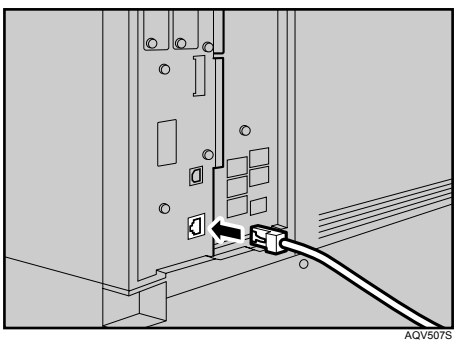
- ❒ Use shielded Ethernet cable. Unshielded cables create electromagnetic interference that could cause malfunctions.
- ❒ The Ethernet cable is not supplied with this printer. Select your cable according to the network environment.

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



AQV744S

2 Connect the Ethernet cable to the Ethernet port.



AQV507S

3 Connect the other end of the cable to the printer's network, such as a hub.

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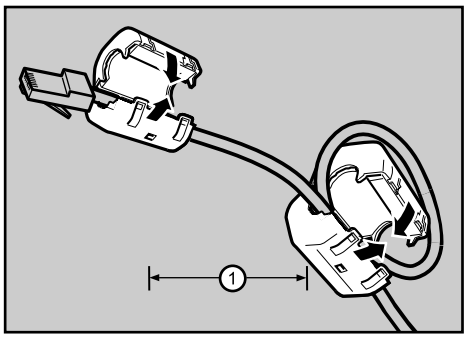
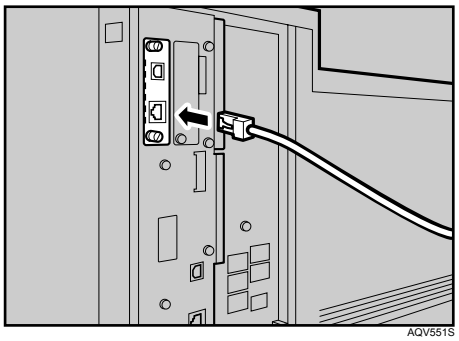
Using the Gigabit Ethernet cable

1 **For using the gigabit ethernet cable, attach one ferrite core at the printer end of the Ethernet cable, and attach the other ferrite core about 10 cm (4 inches) (①) from this core making a loop as shown.**



AQV564S

2 **Connect the ethernet cable to the gigabit ethernet board.**


AQV551S

3 **Connect the other end of the cable to the printer's network, such as a hub.**

Note

❒ The printer's ethernet and USB ports are not available when the gigabit ethernet board is attached to the printer.

Reference

For details about network environment settings, see Software Guide.

For details about attaching the gigabit ethernet board, see p.38 “Attaching Gigabit Ethernet Board”.

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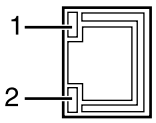
Reading the LED Lamps

❖ **For standard ethernet port**

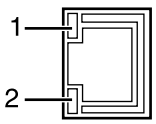


AQV563S

1. **Green: comes on when the printer is properly connected to the network.**

2. **Yellow: comes on when 100BASE-TX is being used. It comes off when 10BASE-T is being used.**

❖ **For gigabit ethernet board**



AQV563S

1. **Yellow: comes on 100BASE-TX is being used.**

Green and yellow lamps are lit when 1000BASE-T is being used.

2. **Green: comes on when 10BASE-T is being used.**

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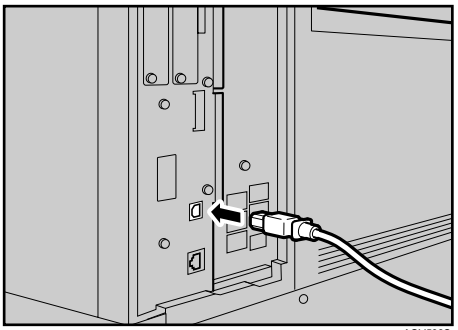
USB Connection

Important

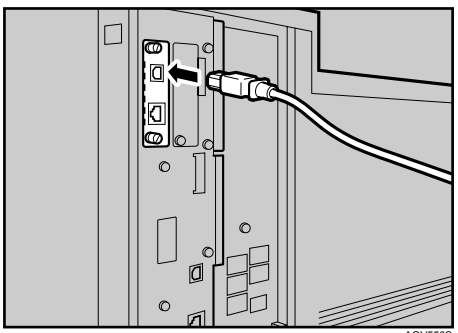
- ❒ The USB2.0 cable is not supplied. Obtain a cable that is suitable for the computer you are using.
- ❒ USB connection is possible under Windows Me/2000/XP, Windows Server 2003, Mac OS 9.x, and Mac OS X.
- ❒ Windows Me supports USB1.1 speeds.
- ❒ USB connection with Macintosh is only possible via the printer's USB port.

1 Connect the square-shaped connector of the USB2.0 cable to the USB port.



AQV506S

2 If the gigabit ethernet board is attached, connect the square-shaped connector of the USB2.0 cable to the USB port of the board.



AQV550S

The printer's ethernet and USB ports are not available when the gigabit ethernet board is attached to the printer.

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

Reference

For details about attaching the gigabit ethernet board, see p.38 “Attaching Gigabit Ethernet Board”.

For details about settings for USB connection printing, see Software Guide.

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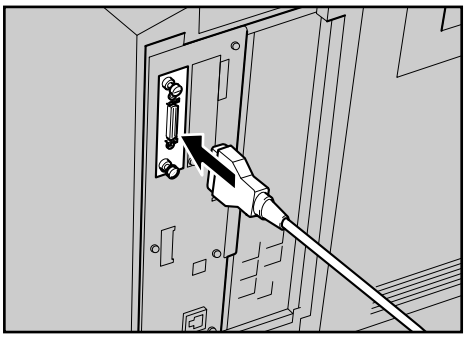
Parallel Connection

Important

- ❒ The parallel interface cable is not supplied with the printer.
- ❒ The printer's parallel connection is a standard bidirectional interface that requires an IEEE 1284-compliant 36-pin parallel cable and host computer parallel port.
- ❒ Use shielded interface cable. Unshielded cables create electromagnetic interference that could cause malfunctions.
- ❒ Voltage rating of the computer's parallel port: DC 5 V (max.)

1 Turn off the printer and computer.

2 Connect the cable to the interface socket of the IEEE 1284 interface board.



AQV561S

3 Securely attach the other end of the parallel cable to your computer's parallel port. Secure the cable.

Reference

For details about settings for parallel connection printing, see Software Guide.

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Ethernet Configuration

Make the following network settings according to the network interface you are using.

You can use SmartDeviceMonitor for Admin or a Web browser to make IP address-related settings in a TCP/IP-capable environment.

Important

❒ Configure the printer for the network using the control panel.

❒ The following table shows the control panel settings and their default values. These items appear in the "Host Interface" menu.

Setting Name	Value
DHCP	On
IPv4 Address	011.022.033.044
Subnet Mask	000.000.000.000
Gateway Address	000.000.000.000
Frame Type (NW)	Auto
Active Protocol	• IPv4: Active • IPv6: Active • NetWare: Active • SMB: Active • AppleTalk: Active
Ethernet Speed	Auto
LAN Type	Auto

Note

❒ If DHCP is in use, the IP address, subnet mask, and gateway address are all set automatically.

❒ Make this setting only when it is necessary. See Software Guide.

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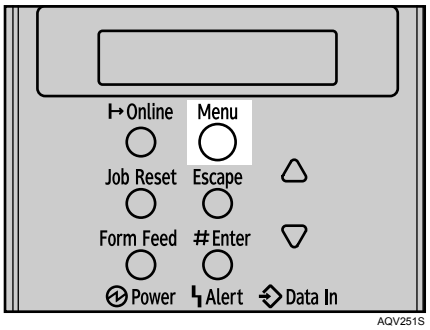
1. Press the [Menu] key.



2. Select [Host Interface] using [▼] or [▲], and then press the [# Enter] key.

```
Menu:
 Host Interface
```

3. Select [Network Setup] using [▼] or [▲], and then press the [# Enter] key.

```
Host Interface:
 Network Setup
```

4. Select [Active Protocol] using [▼] or [▲], and then press the [# Enter] key.

```
Network Setup:
 Active Protocol
```

5. Select the network protocol using [▼] or [▲], and then press the [# Enter] key.

```
Active Protocol:
 IPv4
```

6. Select [Active] or [Not Active] using [▼] or [▲], and then press the [# Enter] key.

```
IPv4:
*Active
```

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

- Select [Not Active] for unused protocols.
- Enable IPv4 to use the Pure IPv4 environment of NetWare 5/5.1, NetWare 6/6.5.

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7 **Press the [Escape] key until the screen returns to the [Network Setup] menu.**

```
Network Setup:
 IPv4 Settings
```

8 **If you use IPv4, assign the IPv4 address to the printer. Select [IPv4 Settings] using [▼] or [▲], and then press the [# Enter] key.**

```
Network Setup:
 IPv4 Settings
```

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

9 **To specify the IP Address, Select [IPv4 Address] using [▼] or [▲], and then press the [# Enter] key.**

```
IPv4 Settings:
 IPv4 Address
```

If you use IPv4, assign also Subnet Mask and Gateway Address.

10 **Enter the address using [▼] or [▲], and then press the [# Enter] key.**

```
IPv4 Address:
 192.  0.  0.  0
```

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 to enter in the all fields, press the [# Enter] key. Use this method to assign Subnet Mask and Gateway Address.

- Do not set "011.022.033.044" as the IP address.

11 **Press the [Menu] key to return to the initial screen.**

12 **Print a configuration page to confirm the settings made.**

Reference

For details about printing the configuration page, see "Printing the Test Page", Quick Installation Guide.

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Using DHCP - Detecting the Network Address Automatically

Important

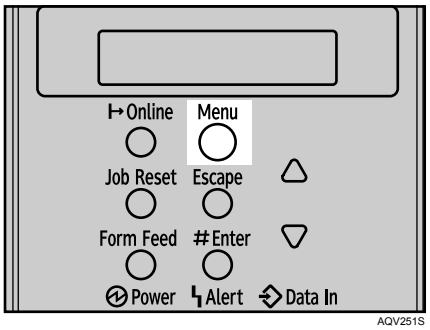
❒ When you use this printer in DHCP environment, select **[DHCP]** following this procedure.

❒ When **[DHCP]** is selected, you cannot make settings for the following items:

- IP Address
- Subnet Mask
- Gateway Address

❒ Consult your network administrator for information about making network settings.

1 **Press the 【Menu】 key.**



2 **Select [Host Interface] using 【▼】 or 【▲】, and then press the 【# Enter】 key.**

```
Menu:
  Host Interface
```

3 **Select [Network Setup] using 【▼】 or 【▲】, and then press the 【# Enter】 key.**

```
Host Interface:
  Network Setup
```

4 **Select [IPv4 Settings] using 【▼】 or 【▲】, and then press the 【# Enter】 key.**

```
Network Setup:
  IPv4 Settings
```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5 **Select [DHCP] using [▼] or [▲], and then press the [# Enter] key.**

```
IPv4 Settings:
 DHCP
```

6 **Select [On] or [Off]using [▼] or [▲], and then press the [# Enter] key.**

```
DHCP:
*On
```

The address will be detected by the printer.

The default setting is **[Off]**.

7 **Press the [Menu] key to return to the initial screen.**

8 **Print a configuration page to confirm the settings made.**

Reference

For details about printing the configuration page, see "Printing the Test Page", Quick Installation Guide.

Making Network Settings for Using Netware

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

Select one of the items below if necessary.

- Auto (Default)
- Ethernet II
- Ethernet 802.2
- Ethernet 802.3
- Ethernet SNAP

Important

❒ Usually, use the default setting ("Auto"). When you first select "Auto", the frame type detected by the printer is adopted. If your network can use more than two frame types, the printer may fail to select the correct frame type if "Auto" is selected. In this case, select the appropriate frame type.

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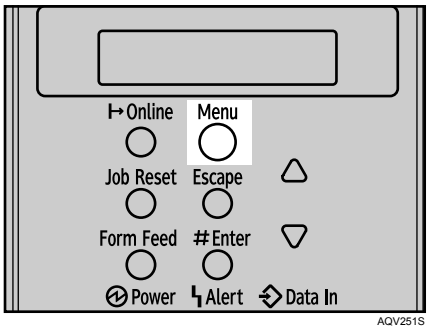
1. Press the [Menu] key.



2. Select [Host Interface] using [▼] or [▲], and then press the [# Enter] key.


```
Menu:
 Host Interface
```

3. Select [Network Setup] using [▼] or [▲], and then press the [# Enter] key.

```
Host Interface:
 Network Setup
```

4. Select [Frame Type (NW)] using [▼] or [▲], and then press the [# Enter] key.

```
Network Setup:
 Frame Type (NW)
```

5. Select the frame type using [▼] or [▲], and then press the [# Enter] key.

```
Frame Type (NW):
*Auto Select
```

6. Press the [Menu] key to return to the initial screen.

7. Print a configuration page to confirm the settings made.

Reference

For details about printing the configuration page, see "Printing the Test Page", Quick Installation Guide.

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IEEE 802.11b (Wireless LAN) Configuration

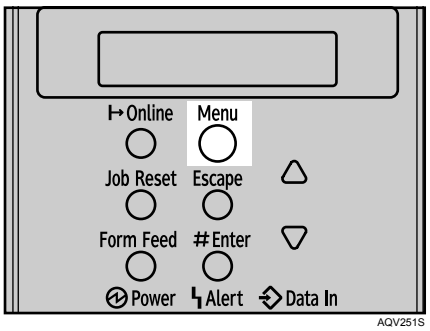
Configure the printer to use IEEE 802.11b (Wireless LAN). The following table shows the control panel settings and their default values. These items appear in the **[Host Interface]** menu.

Setting Name	Default Value
Communication Mode	802.11 Ad hoc
Channel	• **120V** (1-11) 11 • **220-240V** (1-13) 13
Communication Speed	Auto
SSID	blank
WEP	Not Active

Important

- ❒ For using the IEEE 802.11b interface unit, installing the optional SDRAM module is required. If the optional SDRAM module is not installed, the printer does not detect the unit, and also it does not function because of memory shortage.
- ❒ To use IEEE 802.11b (Wireless LAN), set as the followings using the control panel: press the **【Menu】** key, and then select **[Host Interface]**, **[Network Setup]**, **[LAN Type]**, and then **[IEEE 802.11b]**. Also, set the IP Address, Subnet Mask, Gateway Address, DHCP, Frame Type (NW), and Active Protocol under the **[Network Setup]** menu. For details about setting items, see "Configuring the Printer for the Network", Software Guide.
- ❒ The 802.11b interface unit cannot be used simultaneously with a standard ethernet interface.

1 **Press the 【Menu】 key.**



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2 **Select [Host Interface] using 【▼】 or 【▲】, and then press the 【# Enter】 key.**

```
Menu:
 Host Interface
```

3 **Select [IEEE 802.11b] using 【▼】 or 【▲】, and then press the 【# Enter】 key.**

```
Host Interface:
 IEEE 802.11b
```


4 **Select [Comm. Mode] using 【▼】 or 【▲】, and then press the 【# Enter】 key.**

```
IEEE 802.11b:
 Comm. Mode
```

5 **Select the transmission mode of IEEE 802.11b using 【▼】 or 【▲】, and then press the 【# Enter】 key.**

```
Comm. Mode:
*802.11 Ad hoc
```

- The factory default is **[802.11 Ad hoc]**.
- To use an IEEE 802.11b card for which the SSID (Network Name) setting is not necessary, select **[Ad hoc]**.
- The transmission mode of IEEE 802.11b can also be set using a Web browser. For details, see Web browser, and "Configuring the Network Interface Board Using Web Browser", Software Guide.

6 **If [802.11 Ad hoc] or [Ad hoc] is selected for [Comm. Mode], set the channel to use for transmission.**

Confirm the network administrator for the channel to use.

7 **In the [IEEE 802.11b] menu, select [Channel] using 【▼】 or 【▲】, and then press the 【# Enter】 key.**

```
IEEE 802.11b:
 Channel
```


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8 **Enter the channel using [▼] or [▲], and then press the [# Enter] key.**

```
Channel:
 (1-13)    11
```

9 **Set [Trans. Speed] in the same way.**

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

10 **Print a configuration page to confirm the settings made.**

Reference

For details about printing the configuration page, see "Printing the Test Page", Quick Installation Guide.

Setting SSID

If **[Infrastructure]** or **[802.11 Ad hoc]** is selected for **[Comm. Mode]**, set SSID to use for transmission.

Confirm the network administrator for SSID to use.

1 **In the [IEEE 802.11b] menu, select [SSID] using [▼] or [▲], and then press the [# Enter] key.**

```
IEEE 802.11b:
 SSID
```

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

2 **select [Enter ID] using [▼] or [▲], and then press the [# Enter] key.**

```
SSID:
 Enter ID
```

3 **Enter characters using [▼] or [▲], and then press the [# Enter] key.**

```
SSID: [3]
AIR
```

The number of character you have entered is displayed on the top right of the screen.

The characters that can be used are ASCII 0x20-0x7e (32 bytes), 16 digits.

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4 Print a configuration page to confirm the settings made.

Reference

SSID can also be set using a Web browser. For details, see the Web Image Monitor Help, and "Configuring the Network Interface Board Using Web Browser", Software Guide.

WEP key can also be set using a Web browser. For details, see Web Image Monitor Help.

For details about printing the configuration page, see "Printing the Test Page", Quick Installation Guide.

Setting a WEP key

In the case of using a WEP key on a network, activate the WEP setting to be used for communication along with WEP.

Confirm the network administrator for the WEP Key to use.

1 In the [IEEE 802.11b] menu, select [Security Method] using [▼] or [▲], and then press the [# Enter] key.

```
IEEE 802.11b:
 Security Method
```

2 Select [WEP] using [▼] or [▲], and then press the [# Enter] key.

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.

```
Security Method:
*WEP
```

3 Select [Change (HEX)] or [Change (ASCII)] using [▼] or [▲], and then press the [# Enter] key.

```
WEP Key:
 Change (HEX)
```


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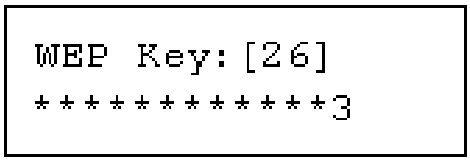
4 Enter the characters using 【▼】 or 【▲】, and then press the 【# Enter】 key.



When entering the character, pressing 【# Enter】 will mask it with an asterisk for security reasons.

When using 64 bit WEP, up to 10 characters can be used for hexadecimal and up to five characters for ASCII. When using 128 bit WEP, up to 26 characters can be used for hexadecimal and up to 13 characters for ASCII.

The number of characters that can be entered is limited to 10 or 26 for hexadecimal and 5 or 13 for ASCII.

For ASCII character strings, each capital letter and lowercase letter is recognized respectively.

5 Press the 【Menu】 key to return to the initial screen.

6 Print a configuration page to confirm the settings made.

Reference

WEP key can also be set using a Web browser. For details, see Web Image Monitor Help.

For details about printing the configuration page, see "Printing the Test Page", Quick Installation Guide.

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Paper and Other Media Supported by This Printer

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

❒ The following symbols and terminology are used to represent the feed direction.

In this manual	On the display	Paper feed direction
⇒ (Feed direction)	A4 $8\frac{1}{2} \times 11$	Short-edge feed direction
⇒ (Feed direction)	A4 $8\frac{1}{2} \times 11$	Long-edge feed direction

❒ Be careful of the paper feed direction. The direction is determined for each paper size.

❖ **220-240V Input Paper Sizes**

	Feed Direction	Size (mm)	Bypass Tray	Tray 1/2	Paper Feed Unit (Tray 3 /4)	Large Capacity Tray	Duplex Printing
A3		297 × 420	☆	◎	◎	×	◎
B4		257 × 364	☆	☆	☆	×	◎
A4		210 × 297	☆	◎	◎	×	◎
A4		297 × 210	☆	◎	◎	◎	◎
B5		182 × 257	☆	☆	☆	×	◎
B5		257 × 182	☆	☆	☆	×	◎
A5		148 × 210	☆	☆	☆	×	◎
A5		210 × 148	☆	×	×	×	×
A6		105 × 148	☆	×	×	×	×
DLT (11 × 17 inches)		28 × 43.2	☆	◎	◎	×	◎

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	Feed Direction	Size (mm)	Bypass Tray	Tray 1/2	Paper Feed Unit (Tray 3 /4)	Large Capacity Tray	Duplex Printing
Legal (LG, $8^1/_2 \times 14$ inches)	▭	216 × 356	☆	◎	◎	×	◎
Letter (LT, $8^1/_2 \times 11$ inches)	▭	216 × 279	☆	◎	◎	×	◎
Letter (LT, $11 \times 8^1/_2$ inches)	▯	279 × 216	☆	◎	◎	◎	◎
$5^1/_2 \times 8^1/_2$ inches	▭	140 × 216	☆	☆	☆	×	◎
Executive (Exec., $7^1/_4 \times 10^1/_2$ inches)	▭	184 × 276	☆	☆	☆	×	◎
Executive (Exec., $10^1/_2 \times 7^1/_4$inches)	▯	276 × 184	☆	×	×	×	×
F/GL (8 × 13 inches)	▭	203 × 330	☆	☆	☆	×	◎
Foolscap (F4, $8^1/_2 \times 13$ inches)	▭	216 × 330	☆	☆	☆	×	◎
Folio ($8^1/_4 \times 13$ inches)	▭	210 × 330	☆	☆	☆	×	◎
Custom Size	-	-	★	×	×	×	×

- ◎
  The size is supported and the printer selects it automatically.
  In the "Duplex" column, this means duplex printing is possible.
- ☆
  The size is supported, but the following setting is required:
  - Set the dial of the paper tray to "✱".
  - Select the paper size using the control panel.
- ★
  The size is supported, but it should be set as a custom size using the control panel.
  The supported size may differ depending on the printer language you use.
  Set as a custom size setting using the control panel.
  Tray 1/2 or the Paper Feed Unit (Tray 3/4) do not support custom size.
  The following sizes are supported:
  - Bypass Tray: approximately 100 - 297 mm in width, and 148 - 600 mm in length.
- ×
  The size is not supported.

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❖ 120V Input Paper Sizes

	Feed Direction	Size (inch)	Bypass Tray	Tray 1/2	Paper Feed Unit (Tray 3 /4)	Large Capacity Tray	Duplex Printing
A3	▭	11.7 ″ × 16.6 ″	☆	◎	◎	×	◎
B4	▭	10.2 ″ × 14.4 ″	☆	☆	☆	×	◎
A4	▭	8.3 ″ × 11.7 ″	☆	◎	◎	×	◎
A4	▯	11.69 ″ × 8.26 ″	☆	◎	◎	◎	◎
B5	▭	7.17 ″ × 10.12 ″	☆	☆	☆	×	◎
B5	▯	10.12 ″ × 7.17 ″	☆	☆	☆	×	◎
A5	▭	5.83 ″ × 8.26 ″	☆	☆	☆	×	◎
A5	▯	8.26 ″ × 5.83 ″	☆	×	×	×	×
A6	▯	4.13 ″ × 5.63 ″	☆	×	×	×	×
DLT	▭	11 ″ × 17 ″	☆	◎	◎	×	◎
Legal (LG)	▭	$8^1/_2$ ″ × 14 ″	☆	◎	◎	×	◎
Letter (LT)	▭	$8^1/_2$ ″ × 11 ″	☆	◎	◎	×	◎
Letter (LT)	▯	11 ″ × $8^1/_2$ ″	☆	◎	◎	◎	◎
$5^1/_2 \times 8^1/_2$ inches	▭	$5^1/_2$ ″ × $8^1/_2$ ″	☆	☆	☆	×	◎
Executive (Exec.)	▭	$7^1/_4$ ″ × $10^1/_2$ ″	☆	☆	☆	×	◎
Executive (Exec.)	▯	$10^1/_2$ ″ × $7^1/_4$ ″	☆	×	×	×	×
F/GL	▭	8 ″ × 13 ″	☆	☆	☆	×	◎
Foolscap (F4)	▭	$8^1/_2$ ″ × 13 ″	☆	☆	☆	×	◎
Folio	▭	$8^1/_4$ ″ × 13 ″	☆	☆	☆	×	◎
Custom Size	-	-	★	★	★	×	×

- ◎
  The size is supported and the printer selects it automatically.
  In the “Duplex” column, this means duplex printing is possible.
- ☆
  The size is supported, but the following setting is required:
  - Set the dial of the paper tray to “✱”.
  - Select the paper size using the control panel.

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- ★
  The size is supported, but it should be set as a custom size using the control panel.
  The supported size may differ depending on the printer language you use. Set as a custom size setting using the control panel.
  Tray 1/2 or the Paper Feed Unit (Tray 3/4) do not support custom size.
  The following sizes are supported:
  - Bypass Tray: approximately 3.94 ″-11.70 ″ in width, and 5.83 ″- 23.62 ″ in length.
- ×
  The size is not supported.

❖ Paper weight and number of sheets to be set

	Supported paper weight	Maximum number of sheets (plain paper)
Tray 1/2	64 - 105 g/m^2 (20 - 28 lb.)	550 (80 g/m^2, 20 lb.)
Bypass Tray	52 - 163 g/m^2 (16 - 44 lb.)	100 (80 g/m^2, 20 lb.)
Paper Feed Unit (Tray 3/4)	60 - 105 g/m^2 (16 - 28 lb.)	550 (80 g/m^2, 20 lb.)

Check that the top of the stack is not higher than the limit mark inside the tray.

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Paper Recommendations

Loading Paper

Important

❒ Do not use ink-jet printer paper because it may stick to the fusing unit and cause a paper misfeed.

❒ When printing on OHP transparencies that have a print side, load them with the print side over on the bypass tray. Not taking this precaution may cause them to stick to the fusing unit and cause misfeeds.

❒ Set the paper as described below

- Tray 1/2: Print side facing up
- Bypass Tray: Print side facing down
- Paper Feed Unit: Print side facing up

❒ Print quality cannot be guaranteed if paper other than the ones recommended is used. For more information about recommended paper, contact your sales or service representative.

❒ Do not use paper that has already been printed onto by other printers.

Storing Paper

- Paper should always be stored properly. 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 the package in which the paper came.

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Types of Paper and Other Media

Plain Paper

Paper thickness	60 - 90.2 g/m^2 (16 - 24 lb.)
Printer setup	Press the 【Menu】 key, select **[Paper Input]** , and then select **[Plain Paper]** for the selected tray's paper type.
Printer driver setup	Click **[Plain]** or **[Plain/Recycled]** in the **[Paper type:]** list.
Enabled paper feeding tray	Any input tray can be used.
Number of sheets that can be set	• Tray 1, Tray 2: 550 • Tray 3, Tray 4 (Paper Feed Unit PB 3020): 550 • Bypass Tray: 50 • Large Capacity Tray (Large Capacity Tray RT45): 1,500 Make sure paper is not stacked higher than the upper limit mark (▼) inside the tray. Make sure paper is not stacked higher than the paper guides inside the bypass tray.
Duplex printing	Possible

Letterhead

Printer setup	• Press the 【Menu】 key, select **[Paper Input]**, and then select **[Letterhead]** for the selected tray's paper type.
Printer driver setup	Select **[Letterhead]** in the **[Paper type:]** list.
Duplex Printing	Possible

Thick Paper

Paper thickness	91 - 163 g/m^2 (24 - 43.5 lb.) (Only for the bypass tray)
Printer setup	Make the following settings using the control panel: • Press the 【Menu】 key, select **[Paper Input]** , and then select **[Thick Paper]** for the bypass tray's paper type.
Printer driver setup	Click **[Thick]** in the **[Paper type:]** list.
Enabled paper feeding tray	Only the bypass tray can be used. **Note** ❒ Make sure paper is not stacked higher than the paper guides inside the bypass tray.
Duplex printing	Not possible
Additional cautions	Print speed is slightly slower than when using plain paper.

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Label Paper

Printer setup	Make the following settings using the control panel: • Press the **【Menu】** key, select **[Paper Input]**, and then select **[Labels]** for the bypass tray's paper type.
Printer driver setup	Click **[Labels]** in the **[Paper type:]** list.
Enabled paper feeding tray	This paper type can be printed only from the bypass tray. Make sure paper is not stacked higher than the paper guides inside the bypass tray.
Duplex printing	Not possible
Additional cautions	Print speed is slightly slower compared to plain paper.

OHP transparencies

Printer setup	Make the following settings using the control panel: • Press the **【Menu】** key, select **[Paper Input]**, and then select **[Transparency]** for the bypass tray's paper type.
Printer driver setup	Click **[OHP Transparency]** in the **[Paper type:]** list.
Enabled paper feeding tray	This paper type can be printed only from the bypass tray.
Number of sheets that can be set	• Bypass Tray: 20 Make sure paper is not stacked higher than the paper guides inside the bypass tray.
Duplex printing	Not possible
Additional cautions	• Print speed for OHP transparencies is slower than for plain paper. • Due to switching modes, the printer will be on standby for thirty or forty seconds after the job was received. • We recommend that you use a 4000 ANSI lumen or brighter overhead projector to project OHP transparencies.

Paper not supported by this printer

Avoid using the following paper as they are not supported by this printer.

- Paper meant for an ink-jet printer
- Bent, folded, or creased paper
- Curled or twisted paper
- Torn paper
- Wrinkled paper
- Damp paper
- Paper that is dry enough to emit static electricity

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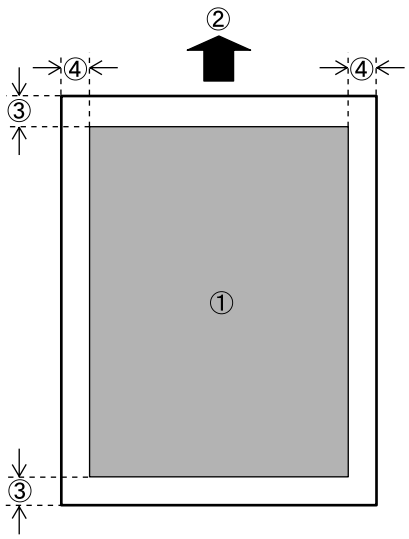
- Paper that has already been printed onto, except a preprinted letterhead. Malfunctions are especially likely when using paper printed on by other than a laser printer (e.g. monochrome and color copiers, ink-jet printers, etc.)
- Special paper, such as thermal paper, aluminum foil, carbon paper and conductive paper
- Paper whose weight is heavier or lighter than the limitation
- Paper with windows, holes, perforations, cutouts, or embossing
- Adhesive label paper on which glue or base paper is exposed
- Paper with clips or staples

Print Area

The following shows the print area for this printer. Be sure to set the print margins correctly by the application.

❖ Paper



① Print area
② Feed direction
③ Approx. 4.2 mm (0.17 inches)
④ Approx. 4.2 mm (0.17 inches)

Note

❒ The print area may vary depending on the paper size, printer language and printer driver settings.

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Loading Paper

This describes how to load paper into the paper tray and bypass tray.

⚠ ***CAUTION:***

- *Do not pull out the paper tray forcefully. If you do, the tray might fall and cause an injury.*

Loading Paper in Tray 1, Tray 2, and the Optional Paper Feed Unit

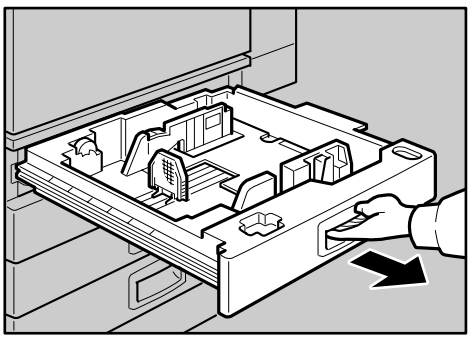
The following example explains loading procedure for the standard paper tray (Tray 1). The same procedure can be used for the optional paper feed unit.

Important

❒ Make sure paper is not stacked above the limit mark inside the tray. Misfeeds might occur.

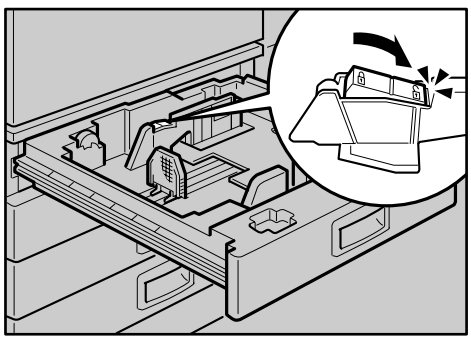
❒ Do not put different types of paper in a single paper tray.

1 Slowly slide out the paper tray (Tray 1), until it stops.



AQV136S

2 Release the side lever to the "unlocked" position.



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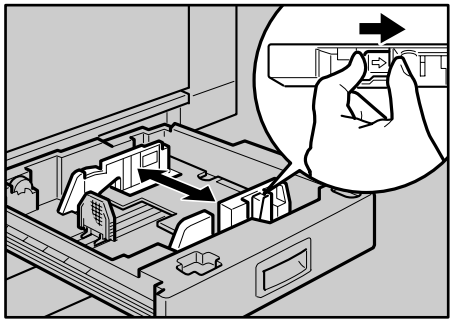
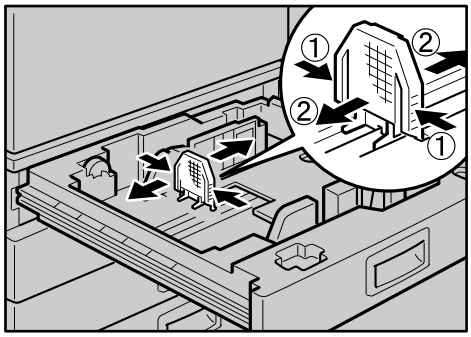
3 **While pressing the release lever, adjust the side fences.**



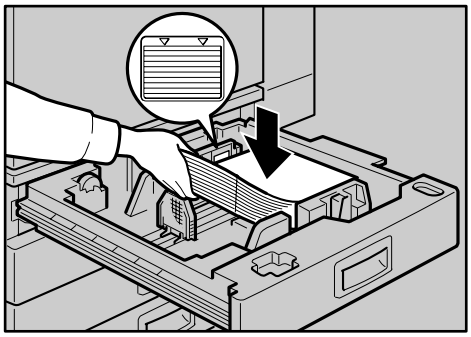
AQV586S

4 **Adjust the back guide to the new paper size.**



AQV059S

5 **Align all four sides of the paper stack and load it into the tray with the print side up.**



AQV139S

Confirm that the top of the stack is not higher than the limit mark inside the tray.

If there is space between the guides and the stack, move the guides to fit to the stack.

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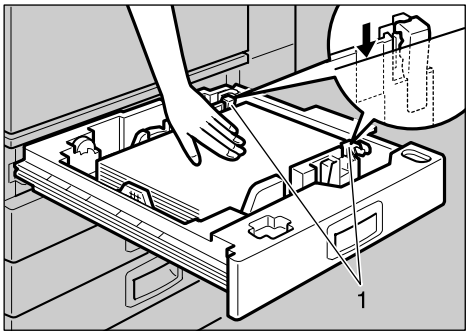
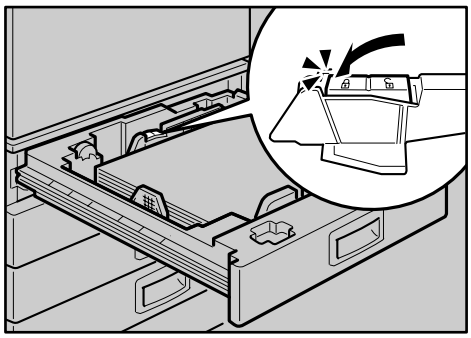
6 After loading, make sure that on either side, the paper does not catch (on 1). Push down the paper stack.



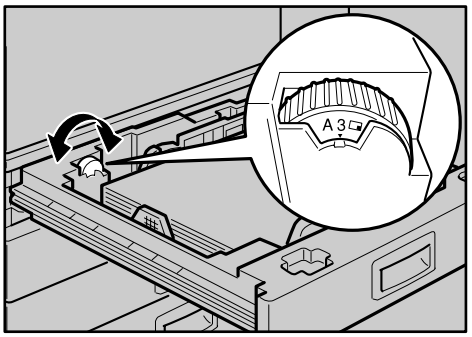
AQV589S

The rear guide is not necessary when 11 × 17 inch paper is loaded in the tray. Put it in the holder in the tray.

7 Lock the side lever.


AQV587S

8 Adjust the paper size dial to match the size and feed direction of the paper in the paper tray.



AQV588S

Be sure to set the dial to the correct direction to avoid paper misfeeds.

If a paper size and feed direction that are not indicated on the paper size dial, set the dial to "✳". In this case, you should specify the paper size using the control panel.

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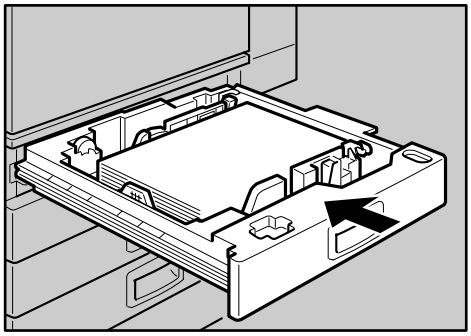
9 **Slide the tray into the printer gently until it stops.**



AQV130S

Reference

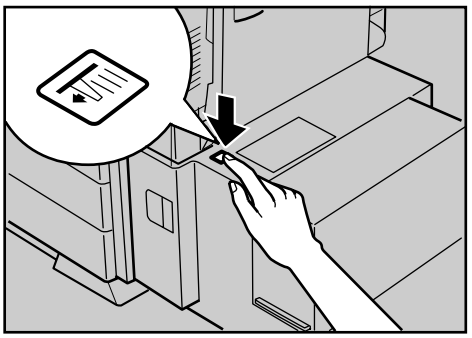
For details about paper types supported by the printer, see p.67 “Paper Recommendations”.

5

Loading Paper in the Optional Large Capacity Tray

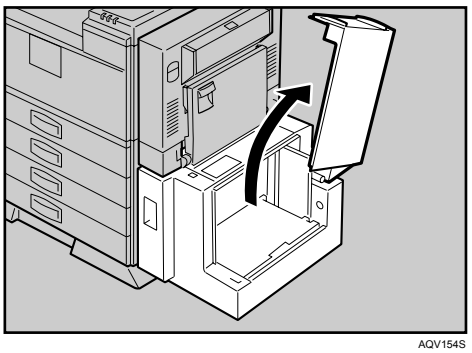
This section describes instructions to load paper in the optional Large Capacity Tray RT45.

1 **Check if the tray release button is lit. If it is not lit, press the button to light it.**



AQV051S

2 **When the button stops blinking and is lit, open the top cover.**



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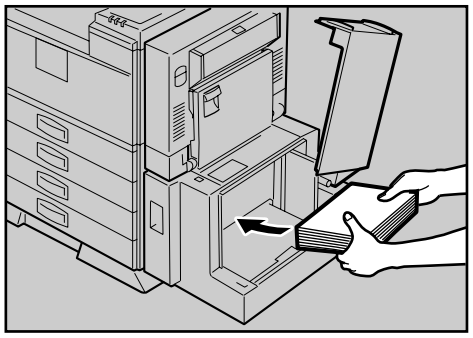
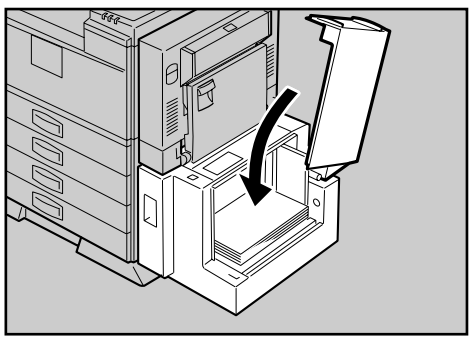
3 **Load paper with the print side down by pressing the side of the stack to the wall.**



AQV156S

Confirm the top of the stack is not higher than the limit mark inside the tray.

4 **Close the top cover.**



AQV155S

Note

❒ If the printer is in the Energy Saver mode when changing the paper size, Press 【# Enter】 before printing. This will update the size setting.

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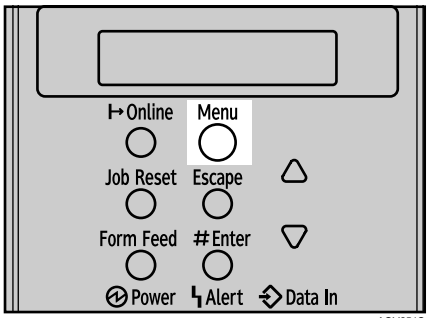
Setting a Paper Size by Using the Control Panel

To load paper whose size cannot be selected automatically, set the paper size on the control panel. Follow the procedure in this section to set the paper size.

Important

❒ You cannot set custom paper size for Tray 1/2 or Tray 3/4 (optional paper feed unit). Use the bypass tray if you load paper in custom size, and set bypass tray's paper size using the control panel.

1 **Press the 【Menu】 key.**



2 **Select [Paper Input] using 【▼】 or 【▲】, and then press the 【# Enter】 key.**

```
Menu:
 Paper Input
```

3 **Select [Tray Paper Size] using 【▼】 or 【▲】, and then press the 【# Enter】 key.**

```
Paper Input:
 Tray Paper Size
```

4 **Select the tray using 【▼】 or 【▲】, and then press the 【# Enter】 key.**

```
Tray Paper Size:
 Tray 1
```

5 **Select the paper size you want to set using 【▼】 or 【▲】, and then press the 【# Enter】 key.**

```
Tray1:
*8 x 13
```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6 **Press the【Menu】key to return to the initial screen.**

Reference

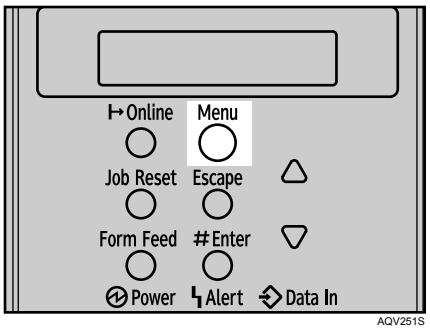
To specify a custom paper size, use only the bypass tray. For details about setting a custom paper size, see p.82 “Specifying Custom Size Paper for the Bypass Tray”.

Setting the Paper Size Automatically

Important

❒ If you specify the paper size using the control panel, and want to return the settings to load paper size automatically, load paper into the paper tray, and follow this procedure.

1 **Press the【Menu】key.**



2 **Select [Paper Input] using【▼】or【▲】, and then press the【# Enter】key.**

```
Menu:
 Paper Input
```

3 **Select [Aut.Tray Select] using【▼】or【▲】, and then press the【# Enter】key.**

```
Paper Input:
 Aut.Tray Select
```

4 **Select the tray using【▼】or【▲】, and then press the【# Enter】key.**

```
Aut.Tray Select:
 Tray 1
```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5 **Select [On] or [Off] using 【▼】 or 【▲】, and then press the 【# Enter】 key.**

```
Tray 1:
*On
```

6 **Press the 【Menu】 key to return to the initial screen.**

Reference

For details about the paper size which is not detected automatically, see p.63 “Paper and Other Media Supported by This Printer”.

Specifying a Paper Type for Tray 1/2 and the Optional Paper Feed Unit

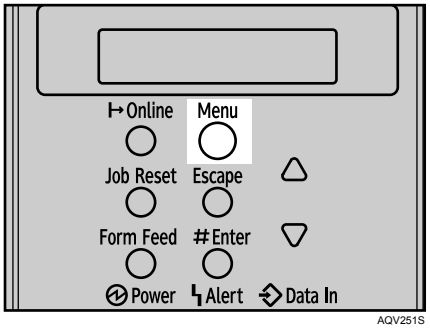
Improve printer performance by selecting the optimum paper type for the tray. You can select from the following paper types:

- Plain Paper, Recycled Paper, Special Paper, Color Paper, Letterhead, Preprinted, Prepunched, Bond Paper, Cardstock

Important

❒ Be sure to set a paper type using the control panel of the printer as the following procedure. If you set a paper type only by the printer driver, printing result might not be appropriate.

1 **Press the 【Menu】 key.**



2 **Select [Paper Input] using 【▼】 or 【▲】, and then press the 【# Enter】 key.**

```
Menu:
  Paper Input
```

3 **Select [Paper Type] using 【▼】 or 【▲】, and then press the 【# Enter】 key.**

```
Paper Input:
  Paper Type
```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4 **Select the tray using [▼] or [▲], and then press the [# Enter] key.**

```
Paper Type:
 Tray 1
```

5 **Select the paper type using [▼] or [▲], and then press the [# Enter] key.**

```
Tray 1:
Plain Paper
```

6 **Press the [Menu] key to return to the initial screen.**

Note

❒ The following paper types cannot be printed on both sides:

- Bond Paper, Cardstock

Loading Paper in the Bypass Tray

Important

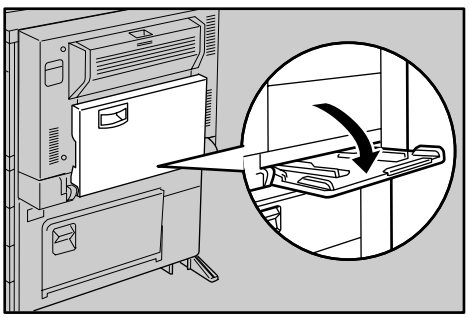
❒ Shuffle the paper before loading the stack onto the tray, so multiple sheets are not fed in together.

❒ 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.

❒ The following functions are not available with the Bypass Tray:

- Duplex print
- Limitless paper feed
- Output from the Finisher (staple, punch)

1 **Open the Bypass Tray.**



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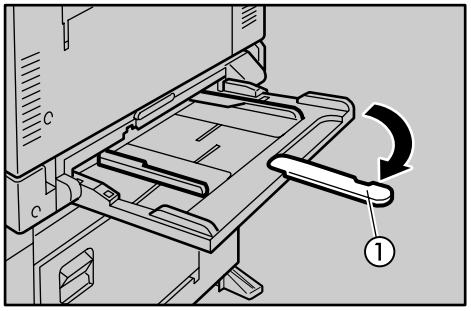
Swing out the extender (1) to support paper sizes larger than A4/letter ▭.



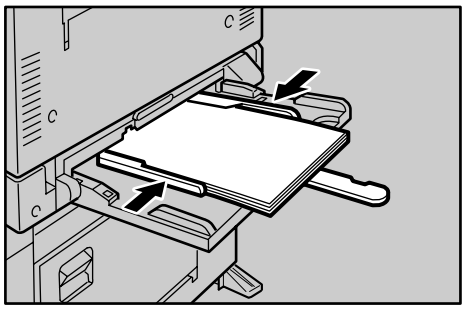
AQV133S

2 Slide the paper guides outwards, and then load paper until it stops with the print side down.

Confirm that the top of the stack is not higher than the limit mark inside the tray.

Shuffle the paper before loading the stack onto the tray so multiple sheets are not fed in at one time.

3 Adjust the paper guides to the paper width.



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Specifying Standard Size Paper for the Bypass Tray

This describes how to load standard size paper into the bypass tray.

1. **Set the paper size using the control panel. Press the 【Menu】 key.**

2. **Select [Paper Input] using 【▼】 or 【▲】, and then press the 【# Enter】 key.**

```
Menu:
 Paper Input
```

3. **Select [Bypass Tray] using 【▼】 or 【▲】, and then press the 【# Enter】 key.**

```
Paper Input:
 Bypass Size
```

4. **Select the paper size you want to set using 【▼】 or 【▲】, and then press the 【# Enter】 key.**

220-240V:

```
Bypass Size:
*A4 (297 x 210)
```

120V:

```
Bypass Size:
*11 x 81/2
```

5. **Press the 【Menu】 key to return to the initial screen.**

Note

- To load thick paper, OHP transparencies, or envelopes, make settings for thick paper, envelope, or OHP transparencies using the control panel and printer driver.
- The number of pages that can be loaded in the bypass tray differs depending on paper type. Make sure paper is not stacked above the paper guides inside the bypass tray.

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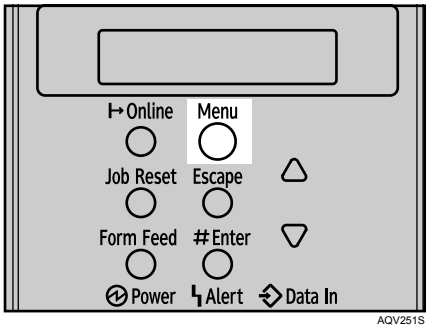
Specifying Custom Size Paper for the Bypass Tray

Important

- ❒ When loading custom size or special paper, specify the paper size using the control panel and printer driver.
- ❒ Paper sizes between 148 - 600 mm (5.83-23.62 in.) in length and 100 - 297 mm (3.94-11.70 in.) in width can be loaded in the bypass tray. However, the size range varies depending on a type of printer drivers. For details, see the printer driver Help.
- ❒ Be sure to set a same size using the control panel and the printer driver. If you set different size, printer error will occur.
- ❒ You cannot print on custom size paper with an application that does not support the custom size setting.

1 **Press the 【Menu】 key.**



2 **Select [Paper Input] using 【▼】 or 【▲】, and then press the 【# Enter】 key.**

```
Menu:
  Paper Input
```

3 **Select [Bypass Size] using 【▼】 or 【▲】, and then press the 【# Enter】 key.**

```
Paper Input:
  Bypass Size
```

4 **Select [Custom Size] using 【▼】 or 【▲】, and then press the 【# Enter】 key.**

```
Bypass Size:
  Custom Size
```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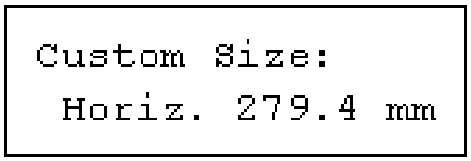
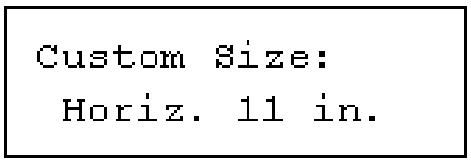
5 **Enter the horizontal value using [▼] or [▲], and then press the [# Enter] key.**

220-240V:



120V:

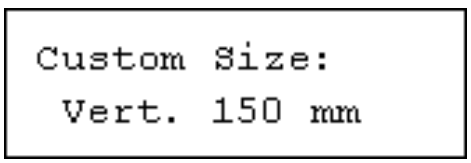


You can set the horizontal value in the following range: 90- 305 mm (3.54-12.01 in.)

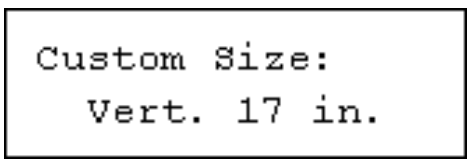
6 **Enter the vertical value using [▼] or [▲], and then press the [# Enter] key.**

Metric version:

220-240V:



120V:



You can set the vertical value in the following range: 148 mm - 432 mm (5.83 -17.01 in.)

By pressing the key, the value increases or decreases by 0.1 mm. By pressing and holding the key, the value varies by 1 mm.

7 **Press the [Menu] key to return to the initial screen.**

Reference

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

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Specifying a Paper Type for the Bypass Tray

By selecting the paper type you want to load, the printer performs better. You can select from the following paper types:

- Plain Paper, Recycled Paper, Special Paper, Color Paper, Letterhead, Prepunched, Labels, Bond Paper, Cardstock, OHP Transparency, Thick Paper

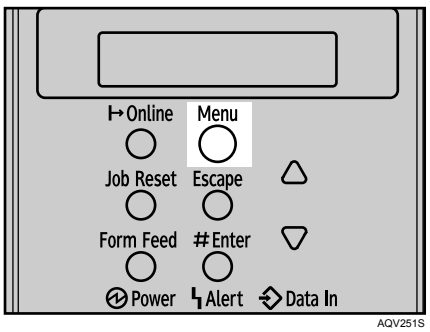
Important

❒ Be sure to select the 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.

❒ Be sure to set a paper type using the control panel of the printer as the following procedure. If you set a paper type only by the printer driver, printing result might not be appropriate.

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



2 **Select [Paper Input] using [▼] or [▲], and then press the [# Enter] key.**

```
Menu:
 Paper Input
```

3 **Select [Paper Type] using [▼] or [▲], and then press the [# Enter] key.**

```
Paper Input:
 Paper Type
```

4 **Select [Bypass Tray] using [▼] or [▲], and then press the [# Enter] key.**

```
Paper Type:
  Bypass Tray
```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5 Select the paper type using [▼] or [▲], and then press the [# Enter] key.

```
Bypass Tray:
*Plain Paper
```

6 Press the [Menu] key to return to the initial screen.

Note

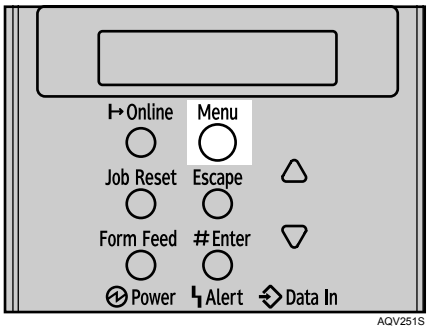
❒ The following paper types cannot be printed on both sides:

- Special Paper, Labels, Cardstock, Transparency (OHP transparency), Thick Paper, Bond Paper

Switching between Paper Trays

When paper of the same size is loaded in both the standard tray and the paper feed unit (option), and when **[Aut.Tray Select]** is set with the printer driver, paper will be fed from the standard tray when you start printing. To print on paper loaded in the paper feed unit, switch the tray to be used to the paper feed unit using **[Tray Priority]** in the **[Paper Input]** Menu.

1 Press the [Menu] key.



2 Select [Paper Input] using [▼] or [▲], and then press the [# Enter] key.

```
Menu:
 Paper Input
```

3 Select [Tray Priority] using [▼] or [▲], and then press the [# Enter] key.

```
Paper Input:
  Tray Priority
```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4 **Select the tray type you want to use using【▼】or【▲】, and then press the【# Enter】key.**

```
Tray Priority:
*Tray 1
```

5 **Press the【Menu】key to return to the initial screen.**

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Replacing the Toner Cartridge

⚠ ***WARNING:***

- ***Do not incinerate spilled toner or used toner. Toner dust is flammable and might ignite when exposed to an open flame.***
- ***Do not store toner, used toner, or toner containers in a place with an open flame. The toner might ignite and cause burns or a fire.***

⚠ ***CAUTION:***

- *Keep toner (used or unused) and the toner cartridge out of reach of children.*
- *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 your skin comes into contact with toner or used toner, wash the affected area thoroughly with soap and water.*
- *If toner or used toner gets into your eyes, flush immediately with large amounts of water. Consult a doctor if necessary.*
- *Disposal should take place at an authorized dealer or an appropriate collection site.*
- *If you dispose of the used toner cartridges yourself, dispose of them according to local regulations.*

⚠ ***CAUTION:***

- *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.*

Important

❒ When handling toner cartridges, never stand them up on either end or position them upside down.

❒ Store toner cartridges in a cool dark place.

❒ Actual printable numbers vary depending on image volume and density, number of pages printed at a time, paper type and size, and environmental conditions such as temperature and humidity. Toner quality degrades over time. You may have to replace the toner cartridge prematurely. We recommend you prepare a new toner cartridge beforehand.

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❒ The actual number of printed pages you get from a particular toner cartridge depends on the type and size of paper you are using, the contents of your print images, and printing environment conditions.

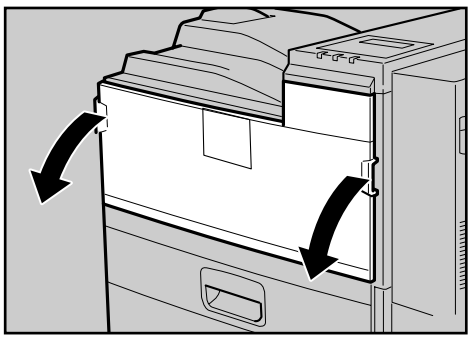
❖ **When to replace the toner cartridge**

If any of the toner cartridge indicators on the initial screen appear to show it is empty, replace the indicated toner cartridge.

Replace the toner cartridge if the following message appears on the display:

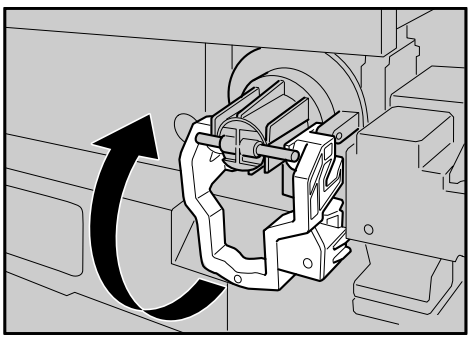
```
Toner depleted
Add Toner
```

1 **Open the front cover.**



AQV103S

2 **Lift the green handle.**



AQV110S

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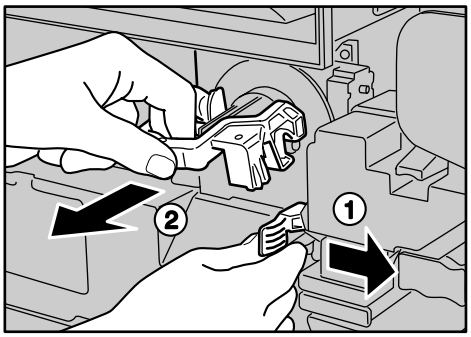
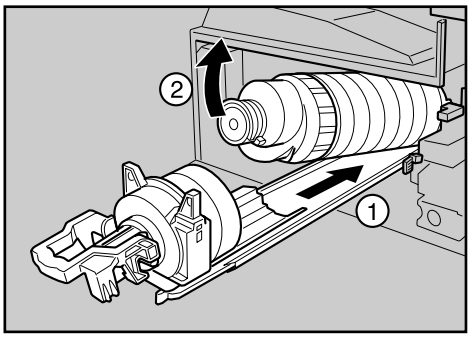
3 **While pushing the lever to the right (1), hold the handle and gently slide the toner holder out (2).**



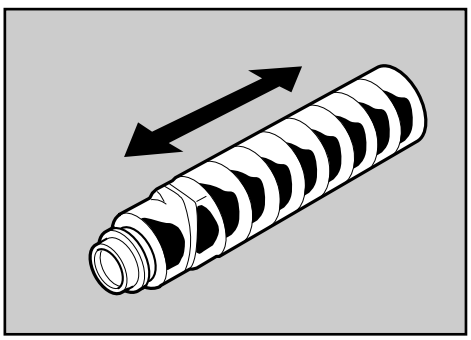
AQV111S

4 **Press the toner cartridge back to raise its top, and then gently pull it out.**



AQV746S

5 **Shake the new toner cartridge back and forth about 5 - 6 times as shown.**



AQV054S

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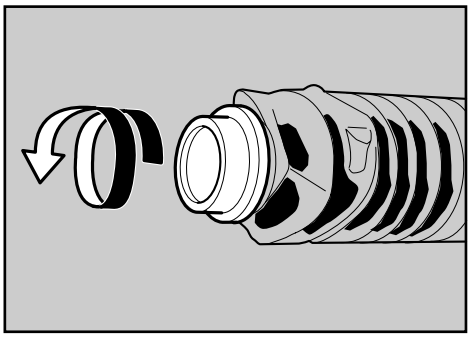
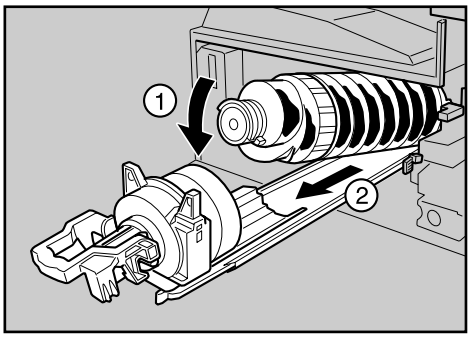
6 Remove the black cap of the new toner cartridge by turning it counterclockwise.



AQV055S

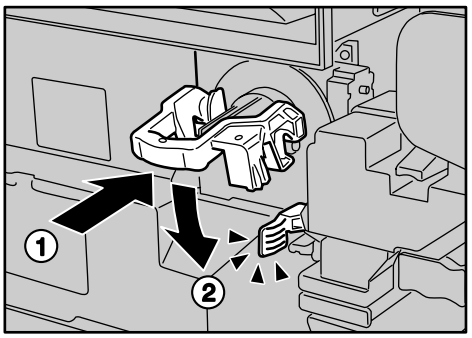
After removing the black cap from the bottle, toner can scatter easily. Do not shake or jar the bottle.

7 Place the toner cartridge on the toner holder (1), and then pull its head toward you (2) to lock it in place.



AQV113S

8 Slide the toner holder into the printer until it clicks into place, and then push down on the green handle.



AQV114S

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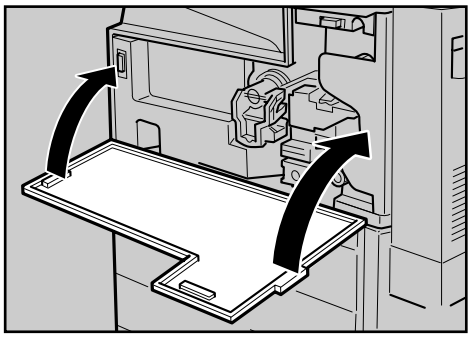
9 **Close the front cover.**



AQV105S

10 **Wait while the toner loads.**

To avoid malfunction, do not turn off the power until "Ready " appears on the display.

Note

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

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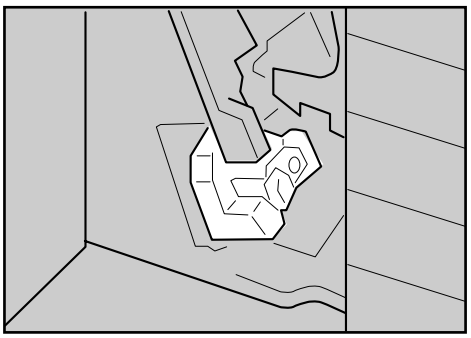
Adding Staples

When "Add staples " appears on the panel display, the staples are almost empty. Follow these steps to replace the staple refill with a new one.

Important

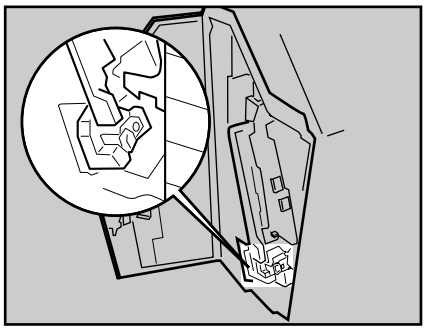
❒ After adding the staple refill, staples might not be ejected for the first few times.

1 Open the front cover of the Finisher SR 3040.



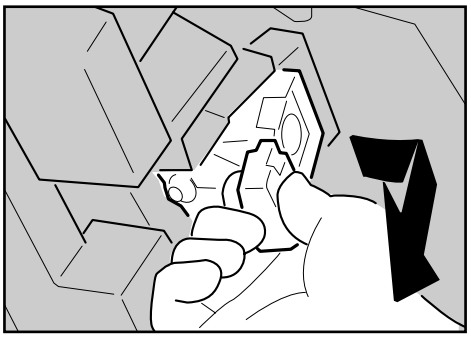
AQV700S

The cartridge compartment is located at the bottom of the finisher.



AQV791S

2 Hold the green lever while gently pulling out the cartridge.



AQV701S

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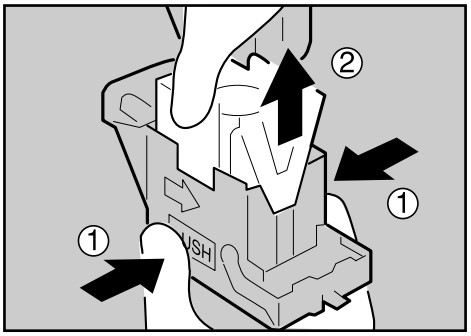
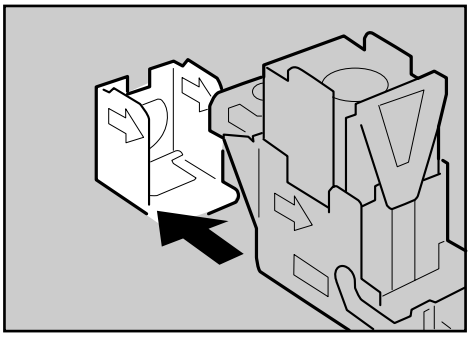
3 **Hold both sides of the cartridge, and then pull up the upper unit of it.**



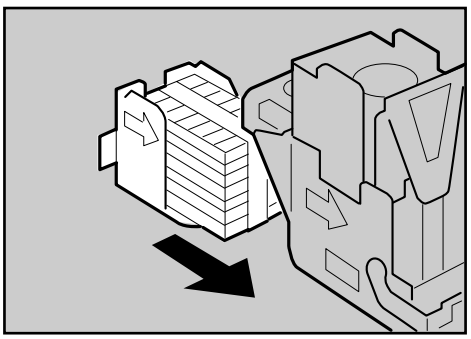
AQV702S

4 **Take out the empty refill in the arrow direction.**



AQV703S

5 **Align the arrows on the new refill and the cartridge, and then push in the refill until it clicks.**



AQV704S

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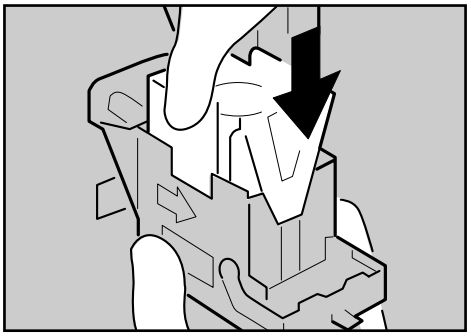
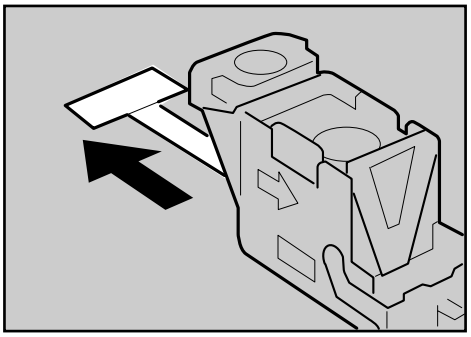
6 **Gently push down the upper unit into the cartridge.**



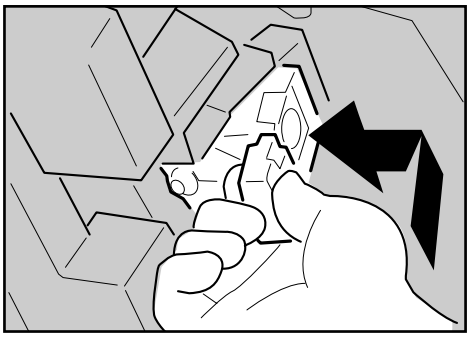
AQV705S

7 **Pull out the ribbon.**



AQV706S

8 **Hold the green lever while pushing in the cartridge until it clicks.**



AQV707S

9 **Close the front cover of the finisher.**

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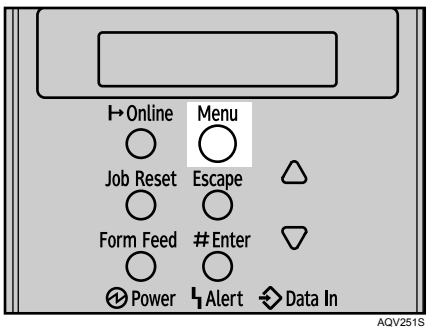
Adjusting the Image Density

You can adjust the image density using the control panel if the image density is not appropriate.

1 Press the [Menu] key.



2 Select [Maintenance] using [▼] or [▲], and then press the [# Enter] key.

```
Menu:
 Maintenance
```

3 Select [Image Density] using [▼] or [▲], and then press the [# Enter] key.

```
Maintenance:
 Image Density
```

4 Specify the image density using [▼] or [▲], and then press the [# Enter] key.

```
Image Density:
(-3 +3)        0
```

You can specify the image density in the range of -3 to +3.

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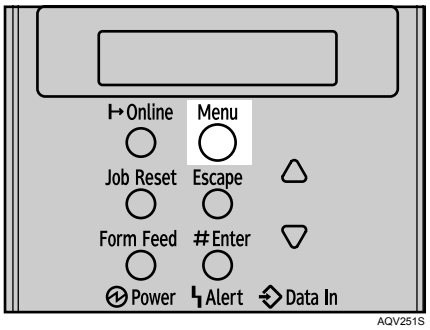
Adjusting Tray Registration

You can adjust the registration of each tray. The vertical adjustment is used for all trays. Normally, you need not update the registration. But when the optional paper feed unit or the duplex unit is installed, updating is useful in some cases.

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



2 **Select [Maintenance] using [▼] or [▲], and then press the [# Enter] key.**

```
Menu:
 Maintenance
```

3 **Select [Registration] using [▼] or [▲], and then press the [# Enter] key.**

```
Maintenance:
 Registration
```

4 **Select [Prt. Test Sheet] using [▼] or [▲], and then press the [# Enter] key.**

```
Registration:
 Prt. Test Sheet
```

5 **Select the tray you want to adjust using [▼] or [▲], and then press the [# Enter] key.**

Print the test sheet to preview the settings.

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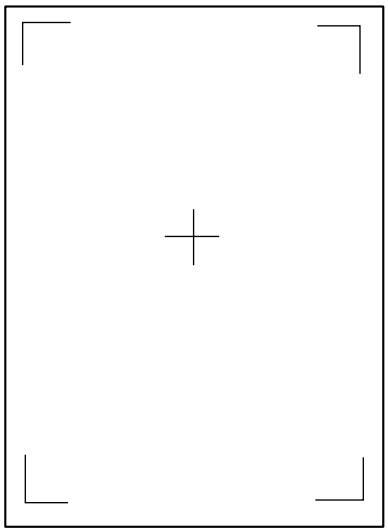
6 Confirm the position of the image on the test sheet, and then adjust the registration value.



In this setting, adjust the margins of the test sheet so that they are equal in size.

7 In the [Registration] menu, Select [Adjustment] using 【▼】 or 【▲】, and then press the 【# Enter】 key.

```
Registration:
 Adjustment
```

8 Select the parameter you want to adjust using 【▼】 or 【▲】, and then press the 【# Enter】 key.

```
Adjustment:
 Vert: Tray 1
```

9 Set the registration value (mm) using 【▼】 or 【▲】, and then press the 【# Enter】 key.

```
Vert: Tray 1:
(-4.0 +4.0) 0.0
```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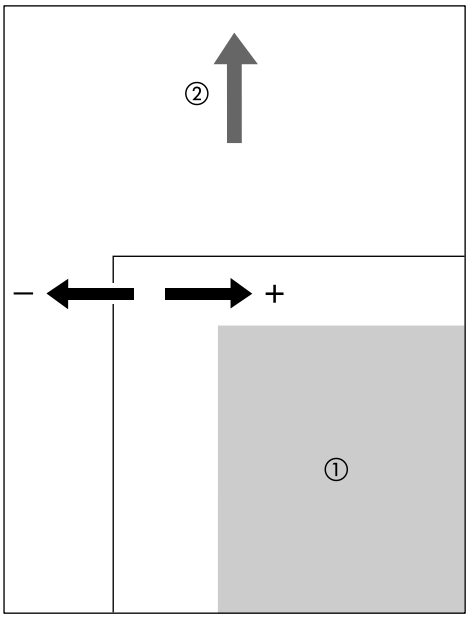
Increase the value to shift the print area in the positive direction, and decrease to shift in the negative direction.



① : Print Area

② : Feed Direction

Pressing the 【▲】 or 【▼】 key makes the value increase or decrease by 1.0 mm steps.

⑩ Press the 【# Enter】 key.

The display returns to the print area **[Adjustment]** menu.

⑪ Print the test sheet to confirm the adjustment result.

⑫ Press the 【Menu】 key to return to the initial screen.

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Error & Status Messages on the Control Panel

This section explains what the messages that appear on the control panel mean and what to do when a particular message appears.

❖ Status Messages (in alphabetical order)

Message	Status
Hex Dump Mode	In the Hex Dump mode, the printer receives data in hexadecimal format. Turn off the printer after printing, and then turn back on.
Suspending...	All jobs are suspended. Turn off the printer, and turn it on again to recover.
Offline	The printer is offline. To start printing, switch the printer online by pressing the **【Online】** key.
Please wait	This message may appear for a few seconds. It means the printer is initializing, replenishing toner, or executing maintenance operations. Wait a while.
Printing...	The printer is printing. Wait a while.
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 in process	The printer is setting changing. Wait a while.
Waiting...	The printer is waiting for the next data to print. Wait a while.

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❖ Alert Messages (in alphabetical order)

Messages	Descriptions and recommended actions
Hardware Problem Wireless Board	Accessing to the IEEE 802.11b board was possible, but an error has been detected. Check that the board is installed properly.
Hardware Problem Wireless Card	IEEE 802.11b card access successful, but an error was detected. Check that the card is installed properly.
Hardware Problem LCT	There is a problem with the paper transfer motor of Large Capacity Tray. Turn the main switch off then on. If the problem does not solve, contact your sales/service representatives.
Hardware Problem Tray 1 (or greater number)	There is a problem with the paper transfer motor of paper tray 1 (or greater number). Turn the main switch off then on. If the problem does not solve, contact your sales/service representatives.
Low Toner remaining	The printer is almost out of toner. Prepare a new toner cartridge.
Remove Paper Standard Tray	The standard output tray is full. Remove the paper from the standard output tray.
Remove Paper Finisher Tray 1	The finisher tray 1 is full. Remove paper from the finisher tray 1.
Remove Paper Finisher Tray 2	The finisher tray 2 is full. Remove paper from the finisher tray 2.

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Printer Does Not Print

Possible Cause	Solutions
Is the power on?	Confirm that the cable is securely plugged into the power outlet and the printer. Turn on the power.
Does the **Online** indicator stay on?	If not, press the【Online】key to light it.
Does the Alert indicator stay red?	If so, check the error message on the display and take the required action.
Is paper loaded?	Load paper into the paper tray or onto the bypass tray. See p.71 "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 "Printing the Test Page", 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.134 "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.102 "Checking the port connection". ❖ **Network Connection** Contact your network administrator.
How is the signal strength when using the wireless LAN?	❖ **Ad hoc Mode or 802.11 Ad hoc Mode** Either move to a location where the signal is good, or remove obstructions. ❖ **Infrastructure Mode** Check the signal status from the "Maintenance" 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.

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Checking the port connection

When the printer is directly connected via the PC cable and the data-in indicator does not flash or light up, the method of checking the port connection is as follows.

- For a parallel port connection, port LPT 1 or LPT 2 should be set.
- For a USB port connection, port USB00 (n) *1 should be set.

*1 (n) is the number of printers connected.

Windows 95/98/Me

1. **Click [Start], point to [Settings] and then click [Printers].**
2. **Click to select the icon of the printer. Next, on the [File] menu, click [Properties].**
3. **Click the [Details] tab.**
4. **Check the [Print to the following port] box to confirm that the correct port is selected.**

Note

❒ Due to the termination of support for Windows 95/98 by Microsoft, the supplier does not guarantee any problem/change occur.

Windows 2000

1. **Click [Start], point to [Settings] and then click [Printers].**
2. **Click to select the icon of the printer. Next, on the [File] menu, click [Properties].**
3. **Click the [Port] tab.**
4. **Check the [Print to the following port] box to confirm that the correct port is selected.**

Windows XP Professional, Windows Server 2003

1. **Access the [Printers and Faxes] window from [Start] on the taskbar.**
2. **Click to select the icon of the printer. Next, on the [File] menu, click [Properties].**
3. **Click the [Port] tab.**
4. **Check the [Print to the following port(s).] box to confirm that the correct port is selected.**

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Windows XP Home Edition

1. Access the [Control Panel] window from [Start] on the taskbar.
2. Click [Printers and Other Hardware].
3. Click [Printers and Faxes].
4. Click to select the icon of the printer. Next, on the [File] menu, click [Properties].
5. Click the [Port] tab.
6. Check the [Print to the following port(s).] box to confirm that the correct port is selected.

Windows NT 4.0

1. Click [Start], point to [Settings] and then click [Printers].
2. Click to select the icon of the printer. After that, on the [File] menu, click [Properties].
3. Click the [Port] tab.
4. Check the [Print to the following port] box to confirm that the correct port is selected.

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Other Printing Problems

Status	Possible Causes, Descriptions, and Solutions
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 settings. See p.68 “Types of Paper and Other Media”. • Check the printer driver's paper settings. See the printer driver Help. Confirm that the paper is not curled or bent. Envelopes can be curled easily. Flatten paper before loading. See p.63 “Paper and Other Media”.
Paper jams occur frequently.	• Number of paper set in the tray exceeds the limit. Confirm that the top of the stack is not higher than the limit mark inside the tray. See p.71 “Loading Paper”. • There may be a gap between the guides and the paper in the paper tray. Make sure there are no gaps. See p.71 “Loading Paper”. • Paper is either too thick or too thin. See p.63 “Paper and Other Media”. • Paper is bent or wrinkled. Use paper that have no bents or wrinkles. See p.63 “Paper and Other Media”. • Paper has already been printed on. See p.63 “Paper and Other Media”. • Paper is damp. Use paper that has been stored properly. See p.63 “Paper and Other Media”. • When loading paper, separate paper from each other.
Multiple pages are fed at once.	• There may be a gap between the guides and the paper in the paper tray. Make sure there are no gaps. See p.71 “Loading Paper”. • Paper is either too thick or too thin. See p.63 “Paper and Other Media”. • Paper has already been printed on. See p.63 “Paper and Other Media”. • Number of paper set in the tray exceeds the limit. Confirm that the top of the stack is not higher than the limit mark inside the tray. See p.63 “Paper and Other Media”. • Paper is static. Use paper that has been stored properly. See p.63 “Paper and Other Media”. • When loading paper, separate paper from each other.

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Status	Possible Causes, Descriptions, and Solutions
Paper gets wrinkles.	• Paper is damp. Use paper that has been stored properly. See p.63 “Paper and Other Media”. • Paper is too thin. See p.63 “Paper and Other Media”. • There may be a gap between the guides and the paper in the paper tray. Make sure there are no gaps. See p.71 “Loading Paper”. • The fusing unit is deteriorated or damaged. Replace the unit. For replacing the unit, Maintenance Kit (optional) is required.
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 OHP transparencies 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 “Waiting... ” appears on the display, the printer is now warming up. Wait for a while.

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Status	Possible Causes, Descriptions, and Solutions
Images are cut off, or excess pages are printed.	If you are using paper smaller than the paper size selected in the application, use the same size paper as that selected in the application. If you cannot load paper of the correct size, use the reduction function to reduce the image, and then print. See the printer driver Help.
The image of the printout is different from the image on the computer's display.	When **[Toner saving]** is checked under the **[Print Quality]** tab in the printer driver's dialog box, the monochrome gradation may appear differently. See the printer driver Help.
Photo images are coarse.	Some applications lower the resolution for making prints.
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.
The print out image is missing or partially blurred.	• Paper is damp. Use paper that has been stored properly. See p.63 “Paper and Other Media”. • Toner is almost depleted. When the “Add Toner” message appears on the display panel, replace the toner cartridge. See p.87 “Replacing the Toner Cartridge”. • 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.63 “Paper and Other Media”. • 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 “Toner depleted / Add Toner” message appears on the display panel, replace the toner cartridge. See p.87 “Replacing the Toner Cartridge”. • 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 “Toner depleted /Add Toner” message appears on the display panel, replace the toner cartridge. See p.87 “Replacing the Toner Cartridge”.

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Status	Possible Causes, Descriptions, and Solutions
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.
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. • Check the paper settings of this printer. See p.68 "Types of Paper and Other Media". • Check the paper settings of the printer driver. See the printer driver Help. The fusing unit is deteriorated or damaged. Replace the unit. For replacing the unit, Maintenance Kit (optional) is required.
When printing on OHP transparencies, black or white dots are obvious.	The registration roller is dirty. Clean the registration roller. Contact your sales/service representatives.
When printing on plain paper, white dots are obvious.	The registration roller is dirty. Clean the registration roller. Contact your sales/service representatives.
PDF Direct Print is not executed (PDF file is not printed).	• You must install an optional hard disk drive or set the value of the **[RAM Disk]** in the System Menu to 2 MB or higher. See "Attaching Printer Hard Disk Drive Type 8100", Setup Guide for optional hard disk drive installation. For **[RAM Disk]**, see the "System Menu", Software Guide. • After adding a memory unit and set the value of the **[RAM Disk]** in the System Menu to 16 MB, value of the **[RAM Disk]** returns to 0 MB if the memory unit is removed. If this happens, reset the value of the **[RAM Disk]** to 2 MB or higher. For **[RAM Disk]**, see the "System Menu", Software Guide. • When printing a PDF with a password set, set the password of the PDF file using the **[PDF: Change PW]** menu in **[PDF Menu]** or Web Image Monitor. For **[PDF: Change PW]**, see the "PDF 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.
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.

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Status	Possible Causes, Descriptions, and Solutions
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.

If the problem cannot be solved, contact your sales or service representative.

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Additional Troubleshooting

Problems	Solutions
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.
IEEE 802.11b Interface Unit is not detected by the printer, even if it is installed properly.	If the optional SDRAM module is not installed, the printer does not detect the IEEE 802.11b interface board because of memory shortage. Install the optional SDRAM module to enlarge memory size.
VM Card Type D is not detected by the printer, even if it is installed properly.	If the optional SDRAM module is not installed, the printer does not detect the unit because of memory shortage. Install the optional SDRAM module to enlarge memory size.

No e-mail is received when an Alert occurs, and after resolving an Alert.	• Confirm **[Notify by Email]** is **[On]** using 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 **[Notify by Email]** 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.

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Problems	Solutions
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.	Make the setting for obtaining time information from the SNTP server. Refer to the Web Image Monitor's Help to the settings.
Printing using IEEE 802.11b (wireless LAN) is slow.	When using the optional IEEE 802.11b board, do the following: • Transmit fewer print jobs. • Make sure no other IEEE 802.11b (wireless LAN) or Bluetooth devices are in use. Interference may occur with the IEEE 802.11b wireless LAN interface board. Such interference may affect the transmission speed and other functions. • Transmissions between the client computer and the printer can be blocked by obstructions. Move the printer or client computer if necessary.

Note

❒ If the printer is still not operating satisfactorily, 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.

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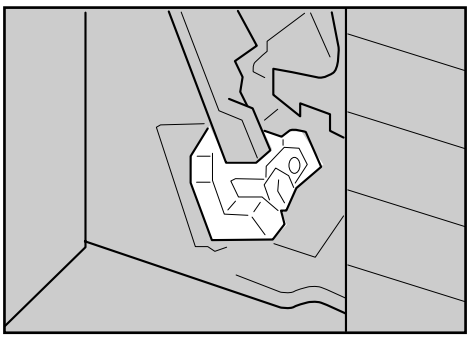
Removing Jammed Staples

If staples do not eject properly, they might be jammed.

Important

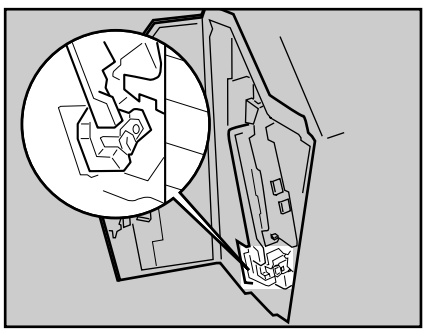
- ❒ Staples might be jammed because of curled paper. In this case, try turning the paper over in the tray.
- ❒ After removing the jammed staples, staples might not be ejected for the first few times.

1 Open the front cover of the Finisher SR 3040.



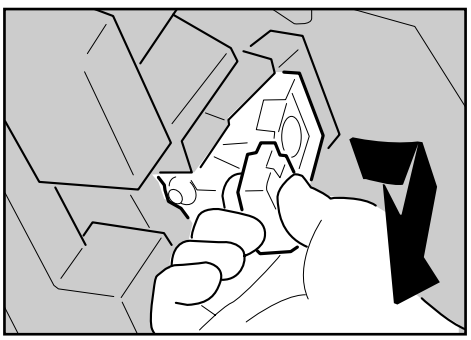
AQV700S

The cartridge compartment is located at the bottom of the finisher.



AQV791S

2 Hold the green lever while gently pulling out the cartridge.



AQV701S

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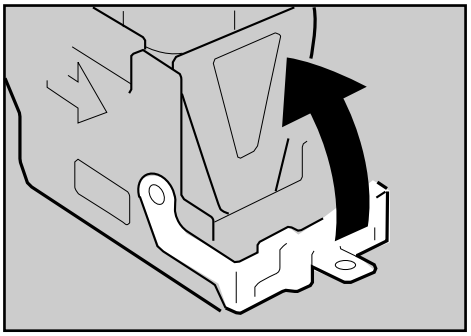
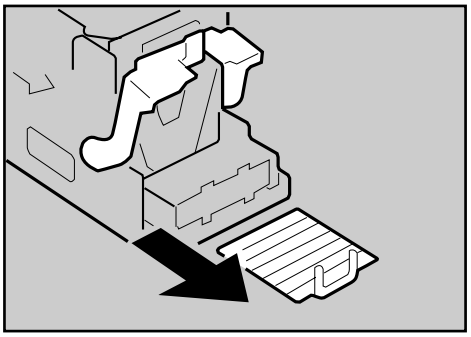
3 **Pull up the cartridge's knob.**



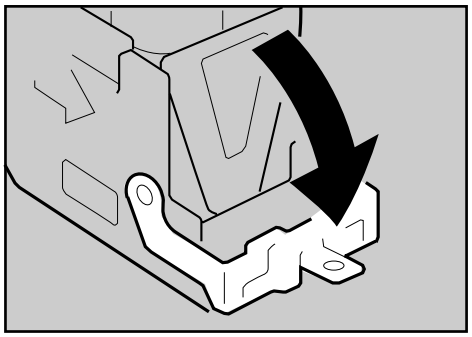
AQV708S

4 **Take out all staples slid from the cartridge.**



AQV709S

5 **Pull down the cartridge's knob until it clicks.**



AQV710S

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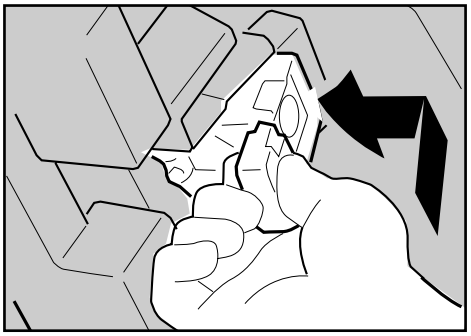
6 **Hold the green lever while pushing in the cartridge until it clicks.**



AQV711S

7 **Close the front cover of the finisher.**

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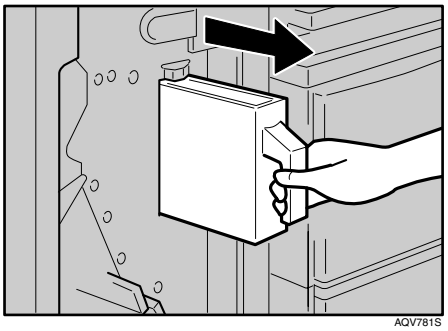
Removing Punch Waste

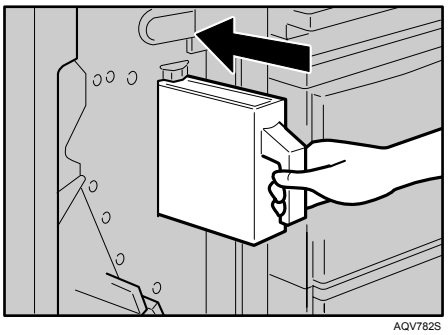
While "Empty Punch Receptacle" is displayed, you cannot use the Punch function.

1 Open the front cover of the finisher.

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



3 Reinstall the punch waste box.



If you do not, "Empty Punch Receptacle" is still displayed.

4 Close the front cover of the finisher. "Empty Punch Receptacle" disappears.

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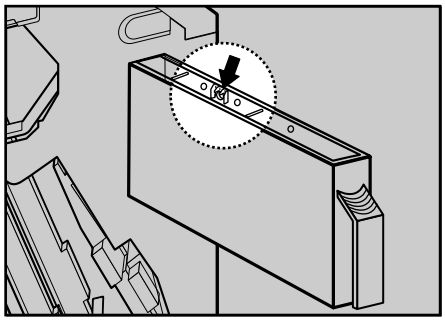
Note

❒ If the message is still displayed, reinstall the punch waste box.

❒ The message "Empty Punch Receptacle" may appear even when the punch waste box is not yet full. If this happens, the position of the punch waste box (indicated by the arrow as shown) may be blocked by punch waste. Remove the punch waste.



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8

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Removing Misfed Paper

An error message appears if a paper misfeed occurs. The error message gives the location of the misfeed.

⚠ ***CAUTION:***

- *The inside of the machine becomes very hot. Do not touch the parts with a "⚠" label (means hot surface). Touching a part with a "⚠" label (means hot surface) could result in a burn.*

⚠ ***CAUTION:***

- *When pulling the paper tray out, be careful not to pull it strongly. If you do, the tray might fall and cause an injury.*

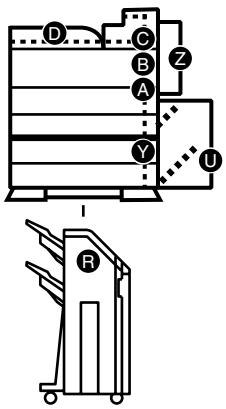
Important

❒ Misfed paper may be covered in toner. Be careful not to get toner on your hands or clothes.

❒ Toner on prints made after removing misfed paper may be loose (inadequately fused). Make a few test prints until smudges no longer appear.

❒ Do not forcefully remove misfed paper, it will tear. Torn pieces remaining inside the printer will cause further misfeeds and possibly damage the printer.

❒ More than one misfed area might be indicated. In this case, check every applicable area. See the following charts shown in the illustration.



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❒ If paper continues to misfeed, check the following points.

- Confirm that the setting of the paper size dial matches the size and feed direction of the paper loaded in the paper tray.
- Confirm that the toner cartridge is set correctly.

❒ If paper misfeeds still occur, contact your sales or service representative.

❒ Do not leave any torn paper scraps within the printer.

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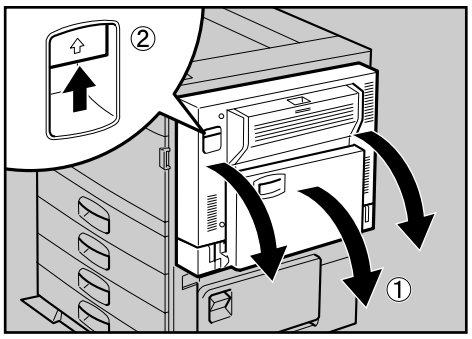
When “Remove Misfeed A,Y:Paper Tray” Appears

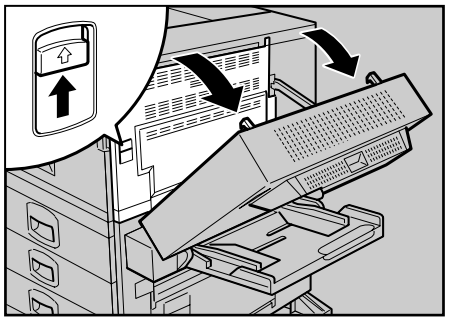
When the “Remove Misfeed A,Y:Paper Tray” message appears, do the followings:

1 **Open the Bypass Tray (1), and then open the Duplex Unit by pushing the catch upwards (2).**



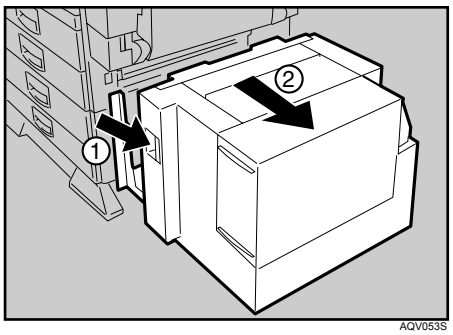
AQV223S

2 **Open the right cover by pushing the catch upwards.**



AQV224S

If the optional Large Capacity Tray RT45 is equipped with your printer, pull the lever (1) to extend the connecting unit (2).



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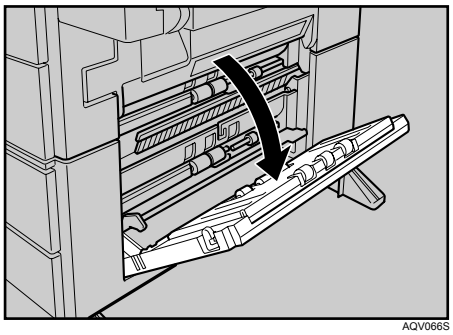
3 **Open the lower vertical paper feed cover.**



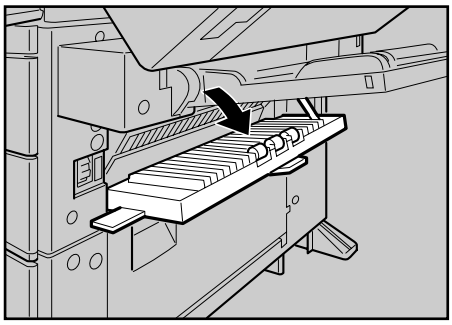
AQV066S

4 **Remove misfed paper slowly.**

AQV067S

5 **Close the lower vertical paper feed cover.**

6 **Open the upper vertical paper feed cover.**



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If your printer is equipped with the optional Large Capacity Tray RT45, the upper vertical paper feed cover is removed.

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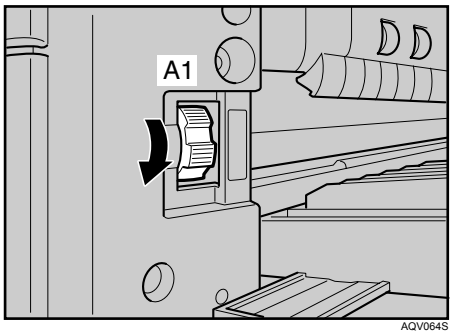
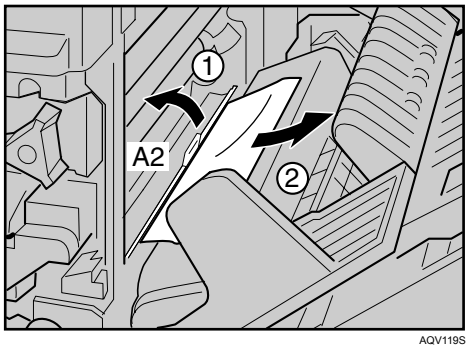
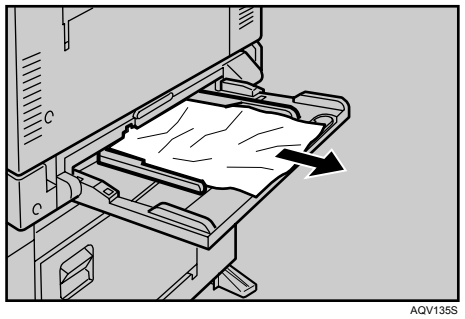
7 **Turn the blue knob A1 downwards.**



8 **While lifting the blue lever A2 in the right cover (1), remove the misfed paper (2).**



9 **Open the Bypass Tray, and then remove the misfed paper.**



10 **Close the covers in the following order:**

- The upper vertical paper feed cover
- The right cover
- The Duplex Unit
- The Bypass Tray

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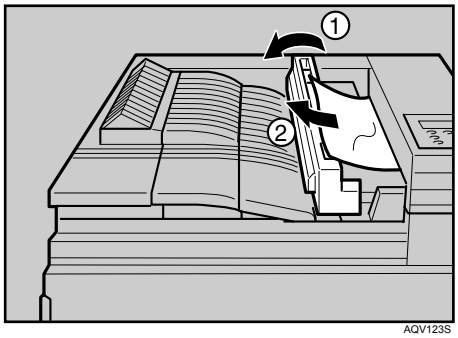
When “Remove Misfeed B,C,D:Inter.Path” Appears

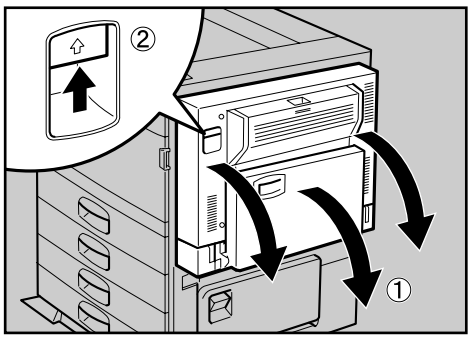
When the “Remove Misfeed B,C,D:Inter.Path” message appears, do the followings:

1 **Open the output feeder cover of the Bridge Unit (1), and then remove the misfed paper (2).**



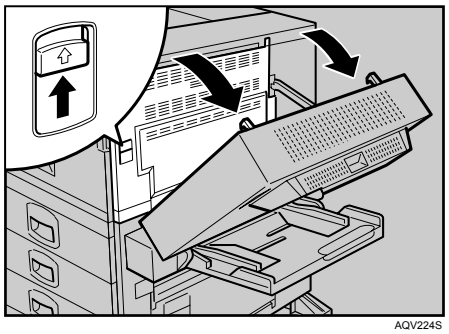
AQV123S

2 **Open the Bypass Tray (1), and then open the Duplex Unit by pushing the catch upwards (2).**



AQV223S

3 **Open the right cover by pushing the catch upwards.**



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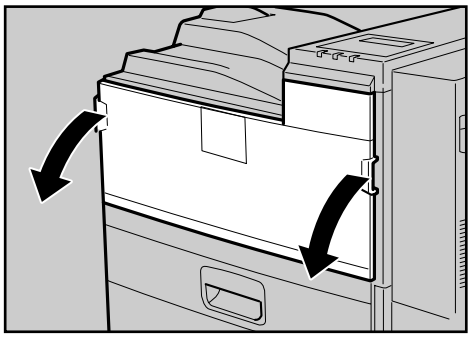
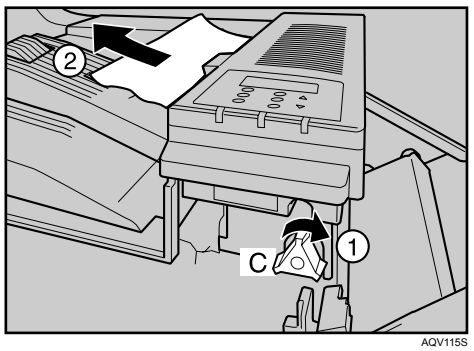
4 **Open the front cover.**



AQV201S

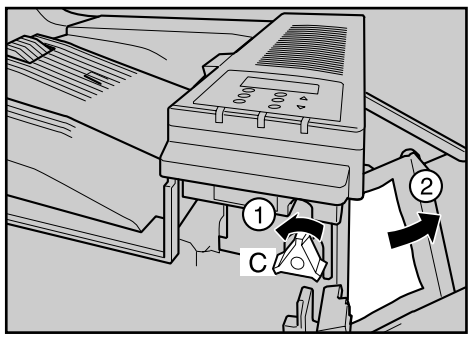
5 **Remove the misfed paper by turning the blue knob C as shown in the illustration.**

If you turn the blue knob C clockwise (1) , the misfed paper comes out to the output tray (2).



AQV115S

If you turn the blue knob C counterclockwise (1), remove the misfed paper from inside the right cover (2).



AQV117S

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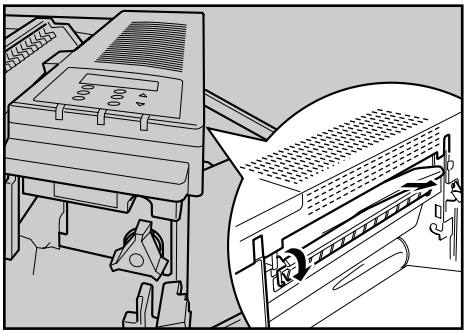
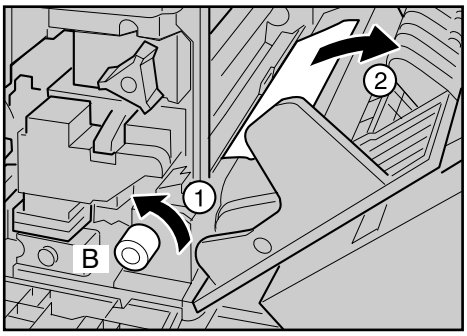
6 **If you can see the paper from the right of the printer, remove it.**



AQV121S

7 **Turn the blue knob B counterclockwise (1), and then remove the misfed paper from inside the right cover (2).**

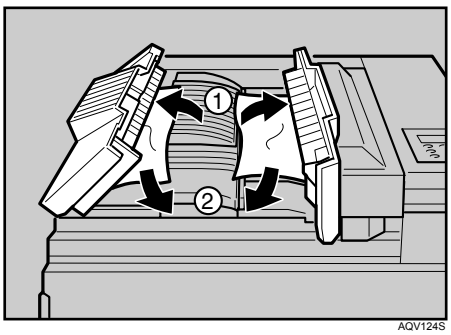


AQV120S

8 **Close the covers in the following order:**

- The right cover
- The Duplex Unit
- The Bypass Tray
- The front cover
- The output feeder cover

9 **Open the covers of the Bridge Unit (1), and then remove the misfed paper (2).**



AQV124S

10 **Close the cover of the Bridge Unit.**

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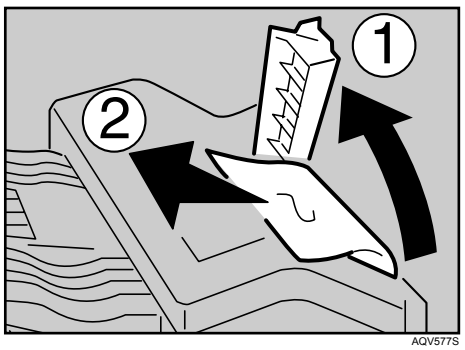
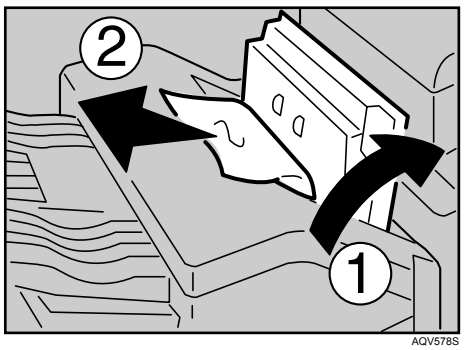
When “Remove Misfeed R:Finisher” Appears

When the “Remove Misfeed R:Finisher” message appears, do the followings:

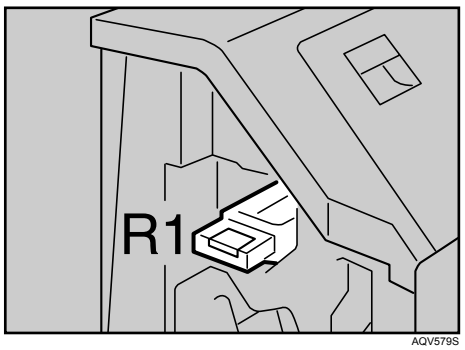
1 **Open the upper cover, and then remove misfed paper.**



2 **If you cannot remove misfed paper, open the slide cover and remove the misfed paper.**



3 **Open the front cover.**



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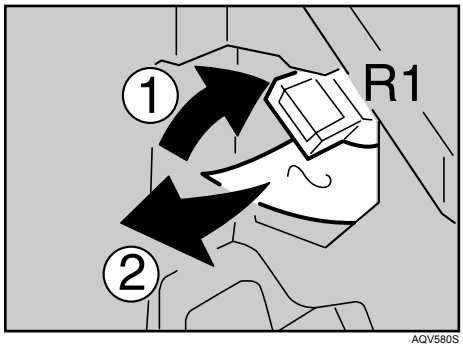
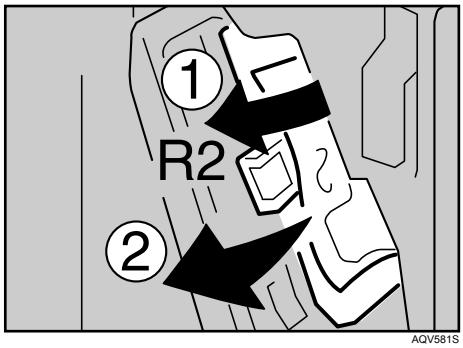
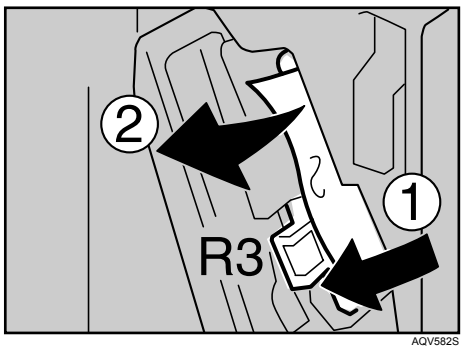
4 **Hold up the lever R1, and remove the misfed paper.**



5 **Hold down the lever R2, and remove the misfed paper.**



6 **If you cannot remove misfed paper, hold down the lever R3 and remove the misfed paper.**



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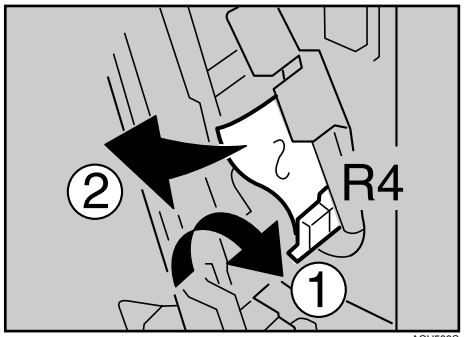
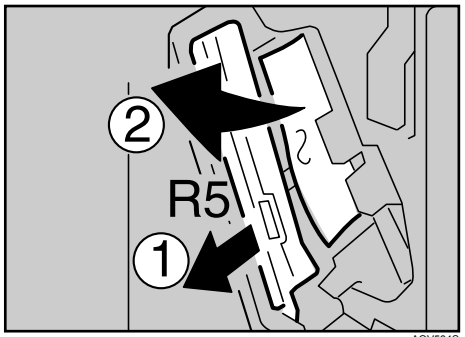
7 **Hold down the lever R4, and remove the misfed paper.**



8 **Pull the lever R5 and remove the misfed paper.**



9 **When removing the misfed paper completed, close the front cover of the finisher.**

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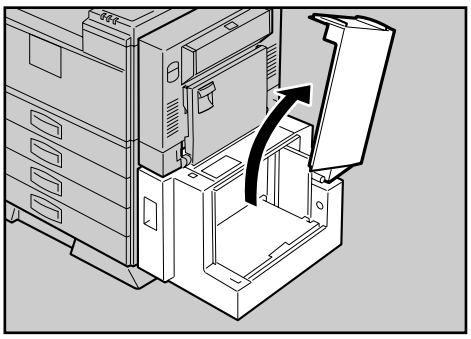
When “Remove Misfeed U:LCT” Appears

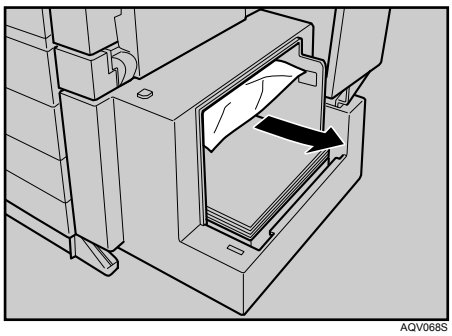
When the “Remove Misfeed U:LCT” message appears, do the followings:

1 **Open the top cover of the Large Capacity Tray RT45.**



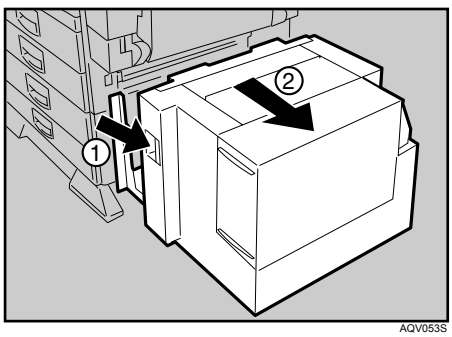
AQV154S

2 **Remove the misfed paper.**



AQV068S

3 **If you cannot remove the misfed paper in the previous step, close the top cover of the Large Capacity Tray RT45 and pull the lever (1) to extend the connecting unit (2).**



AQV053S

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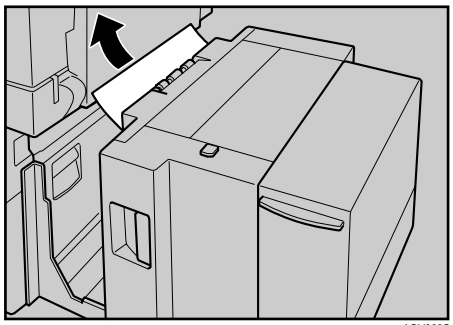
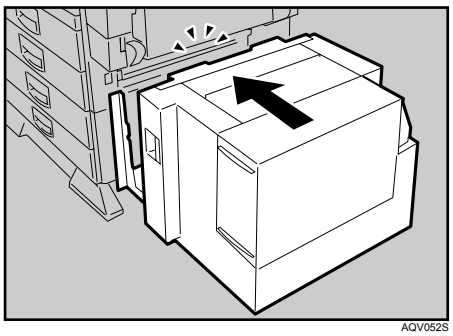
4 **Remove the misfed paper from the left side of the Large Capacity Tray RT45.**



AQV069S

5 **Slide the Large Capacity Tray RT45 forward to connect it to the printer.**



AQV052S

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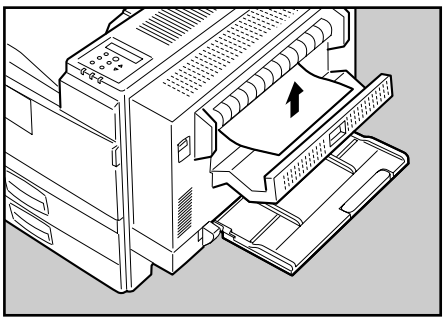
When “Remove Misfeed Z:Duplex Unit” Appears

When the “Remove Misfeed Z:Duplex Unit” message appears, do the followings:

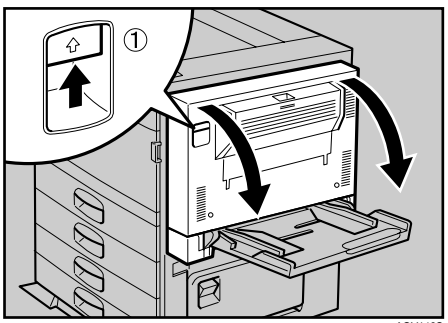
1 Open the Bypass Tray and the Duplex Unit right cover, and then remove the misfed paper.



AQV122S

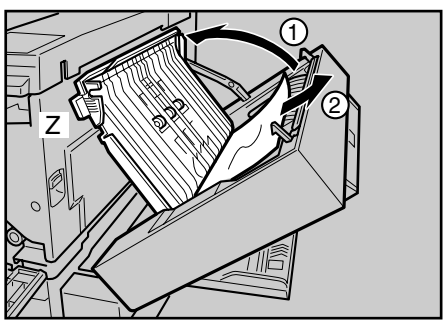
2 Close the Duplex Unit right cover.

3 Open the Duplex Unit by pushing the catch upwards (1).



AQV146S

4 Open the cover Z to the left (1), and then remove the misfed paper (2).



AQV157S

5 Close the covers in the following order:

- The cover Z
- The Duplex Unit
- The Bypass Tray

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Moving and Transporting the Printer

⚠ ***CAUTION:***

- *When moving the machine, each person should hold the handles that are located on opposite sides, and then lift it slowly. Lifting it carelessly or dropping it may cause an injury.*
- *When you move the printer, remember to unplug the power cord from the wall outlet to avoid a fire or an electric shock.*
- *When you pull out the plug from the socket, grip the plug, not the cord, to avoid damaging the cord and causing a fire or an electric shock.*

Repack the printer in its original packing materials for transporting.

Note

❒ The printer weighs approximately 63 kg (138.9 lb.).

Important

❒ Be sure to disconnect all cables from the printer before transporting it.

❒ The printer is a precision piece of machinery. Take care to avoid damage during shipment.

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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 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.*

Moving the printer in a short distance

1 Be sure to check the following points:

- The power switch is turned off.
- The power cable is unplugged from the wall outlet.
- The interface cable is unplugged from the printer.

2 If the external options are installed, remove them.

3 Lift the printer with two people by using the inset grips on both side of the printer, and then move it horizontally to the place where you want to install it.

4 If you removed options, reinstall them.

Note

❒ Be sure to move the printer horizontally. To prevent toner from scattering, move the printer slowly.

❒ If the optional paper feed unit is installed, remove it from the printer, and then move them separately.

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Consumables

Important

❒ 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.

Toner Cartridge

Toner cartridge	Average printable number of pages per bottle *1
Black	30,000 pages

*1 A4/letter 5% test chart, 2 pages/job

Note

❒ If toner cartridges are not changed when necessary, printing will become impossible. We recommend keeping a stock of bottles or purchasing them 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, and environmental conditions such as temperature and humidity.

❒ Toner cartridges may need to be changed sooner than indicated above due to deterioration over the period of use.

❒ Toner cartridges (consumables) are not covered by warranty. However, if there is problem, contact the store where they were purchased.

❒ When you first use this printer, use the toner cartridge packaged with the printer.

Maintenance Kit

❖ Maintenance Kit SP 8100A

Name	Average printable number of pages *1
Development Unit	150,000 pages
Fusing Unit	150,000 pages
Transfer Unit	150,000 pages

*1 A4/letter 5% test chart, 2 pages/job

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.

❒ The maintenance kit (consumables) are not covered by warranty. However, if there is problem, contact the store where they were purchased.

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Specifications

Mainframe

❖ **Configuration:**
Desktop

❖ **Print Process:**
Laser beam scanning & Electrophotographic printing
Dualcomponent development

❖ **First Print Speed:**
6 sec or less (A4□/8 $^1/_2$ × 11□)

Note

❒ If the printer has not been used for a while, there may be a short delay before the first page starts printing.

❖ **Printing Speed:**

• Maximum 45 pages per minute (A4□/8 $^1/_2$ × 11□), one-sided/duplex

Printing speed may vary depending on the setting up environment.

❖ **Resolution:**
600 × 600 dpi (RPCS, PostScript 3, PCL 5e/6)
300 × 300 dpi (RPCS, PostScript 3, PCL 5e)

❖ **Paper size:**
See p.63 “Paper and Other Media”

❖ **Paper Weight:**
See p.63 “Paper and Other Media”

❖ **Media Type:**
See p.63 “Paper and Other Media”

❖ **Paper Output Capacity:**
Standard 500 sheets (80 g/m^2, 20 lb.)

❖ **Paper Input Capacity:**

Standard Paper Tray	550 sheets [*1] × 2
Bypass Tray	50 sheets [*1]
Optional Paper Feed Unit	550 sheets × 2 [*1]
Optional Large Capacity Tray	1,500 sheets [*1]

[*1] Paper weight: 80 g/m^2 (20 lb.)

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❖ Power Source:

- **220-240V**
  220 - 240 V, 8 A or more, 50/60 Hz
- **120V**
  120 V, 12 A or more, 60 Hz

❖ Power Consumption:

- **220-240V**

Printing	1,450 W or less (No power is used during power off.)
Energy Saver	6 W or less

- **120V**

Printing	1,400 W or less (No power is used during power off.)
Energy Saver	6 W or less

❖ Warm-up Time:

Less than 22 seconds (20 °C/68 °F) *1
Less than 15 seconds from Energy Saver mode (20 °C/68 °F) *1

*1 When no error is occurred.

❖ Dimensions:

	Width	Depth	Height
Printer only (Bypass Tray not extended)	670 mm (26.4 ″)	640 mm (25.2 ″)	560 mm (22.4 ″)
Printer with paper feed unit (Bypass Tray not extended)	670 mm (26.4 ″)	640 mm (25.2 ″)	820 mm (32.3 ″)
Printer with full options *1 (Bypass Tray extended)	1,794 mm (70.7 ″)	640 mm (25.2 ″)	1,030 mm (40.6 ″)

*1 Finisher SR 3040, Bridge Unit Type 2045, Large Capacity Tray RT45 and Paper Feed Unit PB 3020.

❖ Weight:

Approximately 64 kg (141.1 lb) (power cord included)

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❖ **Noise Emission [*1] :**

Sound Power Level

	Mainframe only
Stand-by	46.5 dB (A)
During Printing	68 dB (A)

Sound Pressure level [*2]

	Mainframe only
Stand-by	40.5 dB (A)
During Printing	62 dB (A)

[*1] The preceding measurements made in accordance with ISO7779 are actual values.
[*2] Measured at the position of a bystander.

❖ **Memory:**

Standard 128/256 MB, up to 512 MB (with the optional Memory Unit)

❖ **Interface:**

Standard:

- Ethernet (10/100 Base-TX)
- USB2.0
  It requires a USB computer port and cable that support USB 2.0.

Optional:

- IEEE 802.11b (Wireless LAN)
- Parallel (Bidirectional IEEE1284)
- Gigabit Ethernet (1000Base-T)

❖ **Printer Language:**

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

❖ **Fonts:**

PCL 5e/6
Monotype Imaging 35 Intellifonts, 10 TrueType fonts, 13 International fonts, and 1 Bitmap font.
PostScript 3, PDF
136 fonts (Type 2:24, Type 14:112)

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Options

Paper Feed Unit PB 3020

❖ **Paper size:**
See p.63 “Paper and Other Media Supported by This Printer”.

❖ **Dimensions (W × D × H):**
670 × 640 × 260 mm (26.4 ″ × 25.2 ″ × 10.3 ″)

❖ **Paper weight:**
See p.63 “Paper and Other Media Supported by This Printer”.

❖ **Weight:**
Approx. 25 kg (55.2 lb.)

Note

❒ Specifications are subject to change without notice.

Large Capacity Tray RT45

❖ **Paper size:**
See p.63 “Paper and Other Media Supported by This Printer”.

❖ **Paper weight:**
See p.63 “Paper and Other Media Supported by This Printer”.

❖ **Paper capacity:**
See p.63 “Paper and Other Media Supported by This Printer”.

❖ **Power consumption:**
Approx. 40 W (power is supplied from the main frame.)

❖ **Dimensions (W × D × H):**
390 × 500 × 390 mm (15.4 ″× 19.7 ″ × 15.4 ″)

❖ **Weight:**
Approx. 17 kg (37.5 lb.)

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Finisher SR 3040

Shift Tray 1:

❖ **Paper size:**
A3, B4 JIS, A4, B5 JIS, A5, B6 JIS, A6, 11 " × 17 ", 8 1/2 " × 14 ", 8 1/2 " × 11 ", 5 1/2 " × 8 1/2 "

❖ **Paper weight:**
52 – 163 g/m² (14 – 43 lb)

❖ **Stack capacity:**

- 500 sheets (A4, B5 JIS, A5, 81/2 " × 11 ") (80 g/m², 20 lb.)
- 250 sheets (A3, B4 JIS, 81/2 " × 14 ", 11 " × 17 ") (80 g/m², 20 lb.)
- 100 sheets (A5, 5 1/2 " × 8 1/2 ") (80 g/m², 20 lb.)

Shift Tray 2:

❖ **Paper size:**
A3, B4 JIS, A4, B5 JIS, A5, B6 JIS, A6, 11 " × 17 ", 8 1/2 " × 14 ", 8 1/2 " × 11 ", 5 1/2 " × 8 1/2 "

❖ **Paper weight:**
52 – 163 g/m² (14 – 43 lb.)

❖ **Stack capacity:**
No Staple:

- 2,000 sheets (A4, 8 1/2 " × 11 ") (80 g/m², 20 lb.)
- 750 sheets (A3, B4 JIS, A4, B5 JIS, 11 " × 17 ", 8 1/2 " × 14 ", 8 1/2 " × 11 ") (80 g/m2, 20 lb.)
- 500 sheets (A5) (80 g/m², 20 lb.)
- 100 sheets (A5, 5 1/2 " × 8 1/2 ") (80 g/m², 20 lb.)

Staple:

- 1,500 sheets (A4, 8 1/2 " × 11 ") (80 g/m², 20 lb.)
- 750 sheets (A3, B4 JIS, A4, B5 JIS, 11 " × 17 ", 8 1/2 " × 14 ", 8 1/2 " × 11 ") (80 g/m², 20 lb.)
- 500 sheets (A5) (80 g/m², 20 lb.)
- 100 sheets (A5, 5 1/2 " × 8 1/2 ") (80 g/m², 20 lb.)

❖ **Staple capacity:**

- 50 sheets (A4/letter or smaller) (80 g/m², 20 lb.)
- 30 sheets (B4 JIS, legal or larger) (80 g/m², 20 lb.)

Size combined:

- 30 sheets (A4 /A3), (B5 /B4), (letter /11 "× 17 ")

❖ **Staple paper size:**
A3, B4 JIS, A4, B5 JIS, 11 " × 17 ", 8 1/2 " × 14 ", 8 1/2 " × 11 "

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❖ **Staple paper weight:**
64 – 90 g/m^2 (17 – 24 lb.)

❖ **Staple position:**

- 1 staple – 3 positions
- 2 staples – 1 position

❖ **Power consumption:**
Less than 60 W (power is supplied from the main unit)

❖ **Dimensions (W × D × H):**
680 × 620 × 1030 mm (28.8 ″ × 24.5 ″× 40.6 ″)

❖ **Weight:**
Without the punch unit: Approx. 53 kg (116.9 lb.)
With the punch unit: Approx. 55 kg (121.3 lb.)

Punch Kit Type 1045

This is the optional unit for the Finisher SR 3040.

❖ **Paper size (2 holes):**
A3⬓, B4 JIS⬓, A4⬒⬓, B5 JIS⬒⬓, A5⬒⬓, 11 × 17 ″⬓, letter⬒⬓, $5^1/_2$ × $8^1/_2$ ″⬓, legal⬓, $7^1/_4 \times 10^1/_2$ ″⬒⬓, $8^1/_4 \times 13$ ″⬓, $8^1/_2 \times 13$ ″⬓, 8 × 13 ″⬓

❖ **Paper size (3 holes)**
A3⬓, B4 JIS⬓, A4⬒, B5 JIS⬒, 11 × 17 ″⬓, letter⬒

❖ **Paper size (4 holes)**
A3⬓, B4 JIS⬓, A4⬒, B5 JIS⬒, 11 × 17 ″⬓, letter⬒

❖ **Paper size (4 holes Narrow 2 × 2 version)**
A3⬓, B4 JIS⬓, A4⬓, B5 JIS⬒⬓, 11 × 17 ″⬓, letter⬒⬓, $5^1/_2 \times 8^1/_2$ ″⬓, legal⬓, $7^1/_4 \times 10^1/_2$ ″⬓, $8^1/_4 \times 13$ ″⬓, $8^1/_2 \times 13$ ″⬓, 8 × 13 ″⬓

❖ **Paper weight:**
52 – 163 g/m^2 (14 – 43 lb.)

❖ **Punch position:**
See “Stapling Position and Punch Position”, Software Guide.

❖ **Power consumption:**
26.4 W (power is supplied from Finisher SR 3040.)

❖ **Dimensions (W × D × H):**
142 × 456 × 92 mm (55.9 ″ × 179.5 ″ × 36.2 ″)

❖ **Weight:ss**
2.9 kg (6.4 lb.)

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Printer Hard Disk Drive Type 8100

❖ **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.

User Account Enhance Unit Type E

❖ **Capacity:**
128 KB

- Store User Code (up to 500 users)

Memory Unit Type D 128MB/Memory Unit Type E 256MB

❖ **Module Type:**
SO-DIMM (Small Outline Dual-in-line Memory Module)

❖ **Memory Type:**
SDRAM (Synchronous Dynamic RAM)

❖ **Number of Pins:**
200 pins

IEEE 802.11b Interface Unit Type H

This unit is for the following model: **220-240V**

❖ **Transmission Spec.:**
Based on IEEE 802.11b (Wireless LAN)

❖ **Protocol:**
IPv4, IPv6, IPX/SPX, AppleTalk

Note

❒ SmartDeviceMonitor and Web Image Monitor are supported.

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❖ **Data Transfer Speed:**
Auto select from below speed
1 Mbps, 2 Mbps, 5.5 Mbps, 11 Mbps

❖ **Frequency Range:**

- Inch version:
  2412-2462 MHz (1-11 channels)
- Metric version:
  2412-2472 MHz (1-13 channels)

❖ **Transmittable Distance:**
1 Mbps 400 m [*1]
2 Mbps 270 m [*1]
5.5 Mbps 200 m [*1]
11 Mbps 140 m [*1]

[*1] These figures are a guideline for outdoor use. In general, the transmittable distance indoors is 10-100 m, depending on the environment.

❖ **Transmission Mode:**
ad hoc mode and infrastructure mode

IEEE 802.11b Interface Unit Type I

This unit is for the following model: **120V**

❖ **Transmission Spec.:**
Based on IEEE 802.11b (Wireless LAN)

❖ **Protocol:**
IPv4, IPv6, IPX/SPX, AppleTalk

Note

❒ SmartDeviceMonitor and Web Image Monitor are supported.

❖ **Data Transfer Speed:**
Auto select from below speed
1 Mbps, 2 Mbps, 5.5 Mbps, 11 Mbps

❖ **Frequency Range:**

- Inch version:
  2412-2462 MHz (1-11 channels)
- Metric version:
  2412-2472 MHz (1-13 channels)

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❖ **Transmittable Distance:**
1 Mbps 400 m [*1]
2 Mbps 270 m [*1]
5.5 Mbps 200 m [*1]
11 Mbps 140 m [*1]

[*1] These figures are a guideline for outdoor use. In general, the transmittable distance indoors is 10-100 m, depending on the environment.

❖ **Transmission Mode:**
ad hoc mode and infrastructure mode

IEEE 1284 Interface Board Type A

❖ **Transmission Spec.:**
IEEE 1284

❖ **Required cable:**
Standard IEEE 1284 compliant Micro Centronics 36 pin cable

Gigabit Ethernet Board Type A

❖ **Interface Connector:**

- Ethernet (10Base-T, 100Base-TX, 1000Base-T)
- USB 2.0
  It requires a USB computer port and cable that support USB 2.0.

❖ **Data Transmission Speed:**

- Ethernet: 1000 Mbps, 100 Mbps, 10 Mbps
- USB: 480 Mbps (High speed: USB 2.0), 12 Mbps (Full speed)

❖ **Protocol:**
TCP/IP, IPX/SPX, AppleTalk

❖ **Distance Between Devices:**

- Ethernet: 100 m
- USB: 5 m

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Hardware Guide

Model No.
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