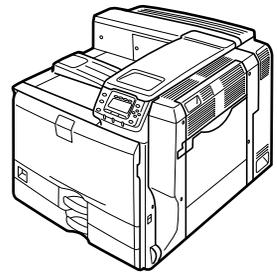


**CLP240D**  
**C7640nD**  
**LP440c**

**Aficio** SP C811DN

# Operating Instructions Hardware Guide



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

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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:

\* □The product name of Windows® 98 is Microsoft® Windows® 98.

\* □The product name of Windows® Me is 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

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

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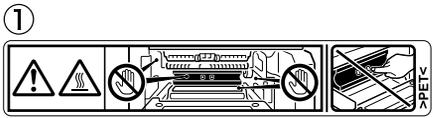
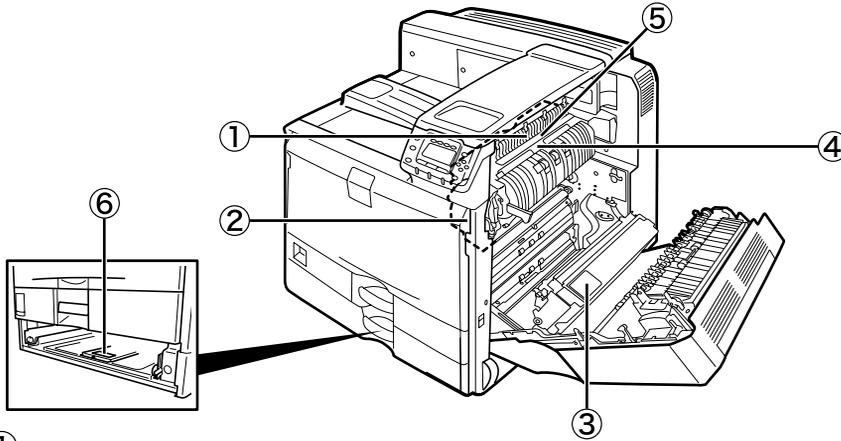
## **11. Appendix**

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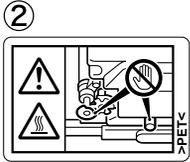
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# Positions of WARNING and CAUTION Labels

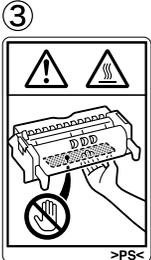
This machine has labels for ⚠WARNING and ⚠CAUTION at the positions shown below. For safety, please follow the instructions and handle the machine as indicated.



① Do not touch the parts a label indicates. The inside of the machine could be very hot. Caution should be taken when removing misfed paper.



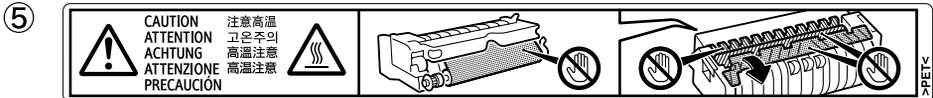
② Do not touch the parts a label indicates. The inside of the machine could be very hot. Caution should be taken when removing misfed paper.



③ Do not touch the parts a label indicates. The inside of the machine could be very hot. Caution should be taken when removing misfed paper.



④ High Temperature parts. Wait a while to allow the Fusing Unit to cool down before removing misfed paper.

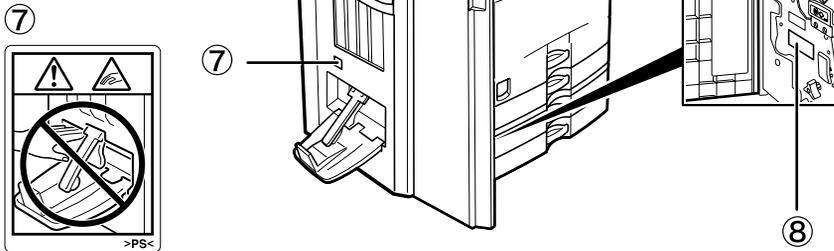


⑤ Do not touch the parts a label indicates. The inside of the machine could be very hot. Caution should be taken when removing misfed paper.

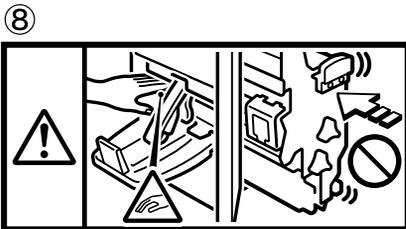


⑥ The inside of the machine could be very hot. Do not touch the parts which a label is put on. Otherwise, an injury might occur.

ATU082S



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



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

ATU083S

---

# Manuals for This Printer

Refer to each manual as required.

## **Safety Information**

Contains information about 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 (this manual)**

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

## **Software Guide**

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

## **Security Guide**

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

---

# How to Read This Manual

This manual uses the following symbols:

## **WARNING**

- Indicates a potentially hazardous situation which, if instructions are not followed, could result in death or serious injury.

## **CAUTION**

- Indicates a potentially hazardous situation which, if instructions are not followed, may result in
- minor or moderate injury or damage to property.

## **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 warnings.

## **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.

Indicates where you can find further relevant information.

[ ]

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

[ ]

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

---

## Description for the Specified Model

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

**220-240V**

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

Read if you have purchased this model.

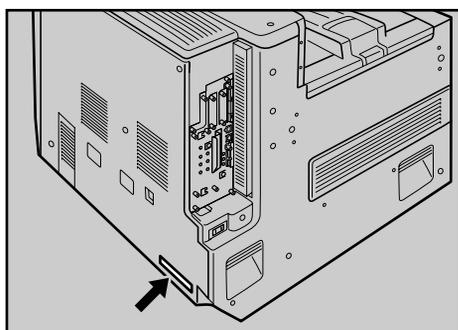
**120V**

This indicates information about the 120 V model printer.

Read if you have purchased this model.

### ↓ Note

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



ATU088S

---

# Installing the Operating Instructions

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

## ★ Important

- **System Requirements:**
  - Windows 95/98/Me, Windows 2000/XP, Windows Server 2003 or Windows NT 4.0
  - 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 settings. In this case, launch "Setup.exe" in the CD-ROM root directory.

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

4. Click [Install manuals].

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

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

7. Click [Exit].

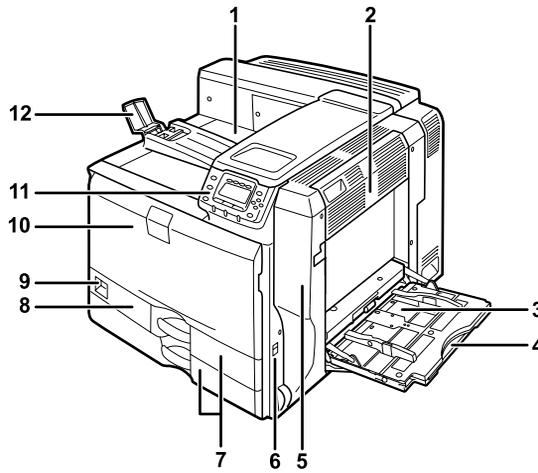
## ↓ Note

- The CD-ROM "Manuals" contains two versions of the manuals: a standard version and a simpler version. Select the appropriate version for your operating environment.
- To uninstall the Operating Instructions, select [Programs] in the [Start] menu, select this printer driver, and then click [Uninstall]. You can uninstall each Manual separately.
- If you are using an incompatible Web browser and the simplified version of the Operating Instructions is not automatically displayed, open the folder "MANUALLANG (language) \ (manual name) unv" on the CD-ROM "Manuals", and then double-click on "index.htm".

# 1. Guide to the Printer

## Exterior: Front View

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



ATU093S

### 1. Standard Output Tray

Printed pages are output here.

### 2. Upper Right Cover

Open this cover to remove jammed paper.

### 3. Bypass Tray

Up to 100 sheets of plain paper can be loaded.

### 4. Bypass Tray Extension

When loading paper larger than A4, pull out the bypass tray extension. For details about the sizes and types of paper that can be used, see p.81 "Supported Paper for Each Tray".

### 5. Right Cover

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

### 6. Handle

Pull out this handle when lifting the printer.

### 7. Tray 1, Tray 2 in each tray.

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

### 8. Left Front Cover

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

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

**9. Power Switch**

Use this switch to turn the power on or off.

**10. Front Cover**

Open this when replacing the toner, photo conductor units or intermediate transfer unit.

**11. Control Panel**

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

**12. Paper Support**

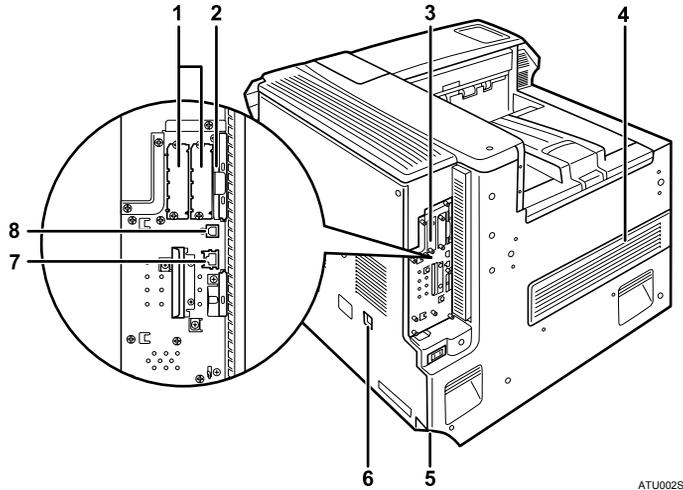
Extend the paper support when printing to paper larger than A3.

**Reference**

- p.81 "Supported Paper for Each Tray".

# Exterior: Rear View

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



## 1. Optional Interface Board Slots

Optional interface boards can be inserted.

Insert an optional Gigabit Ethernet board, IEEE 802.11b interface unit, Bluetooth interface unit or IEEE 1284 interface board in the left slot.

Insert a USB host board in the right slot.

## 2. Expansion Card Slots

Insert a security, digital camera or encryption card.

## 3. Controller Board

Slide this out to install options such as the SDRAM module or User Account Enhance Unit.

## 4. Ventilator

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

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

## 5. Power Connector

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

## 6. Drying Heater Switch

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

## 7. Ethernet Port

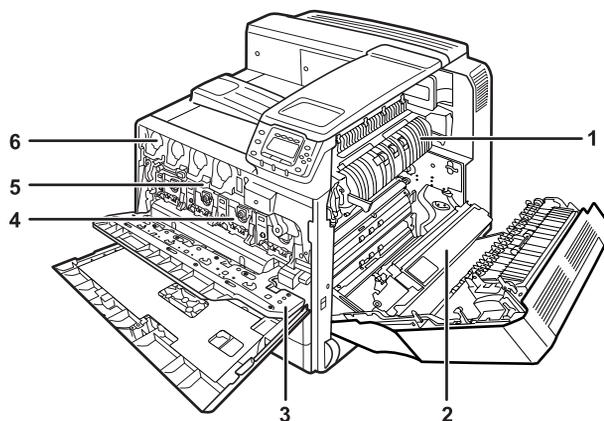
Use a network interface cable to connect the printer to the network.

## 8. USB Port

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

# Interior

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



ASZ006S

## 1. Fusing Unit

Replace the fusing unit when the following messages appear:

- "Replacement Alert/Replace Fusing Unit soon."
- "Replace Fusing Unit."

Replace the fusing unit and the transfer roller together.

## 2. Transfer Roller

Replace the transfer roller when the following messages appear:

- "Replacement Alert/Replace Fusing Unit soon."
- "Replace Fusing Unit."

Replace the transfer roller and the fusing unit together.

## 3. Inner Cover

Open this cover when replacing the photo conductor unit or intermediate transfer unit.

## 4. Photo Conductor Unit

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

- "Replacement Alert/Replace PCU:Black soon."
- "Replace PCU:Black."
- "Replacement Alert/Replace PCU:Colour soon."
- "Replace PCU:Colour."

## 5. Intermediate Transfer Unit

Replace the intermediate transfer unit when the following messages appear:

- "Replacement Alert/Replace IntTrans Unit soon."
- "Replace IntTrans Unit."

## 6. Toner

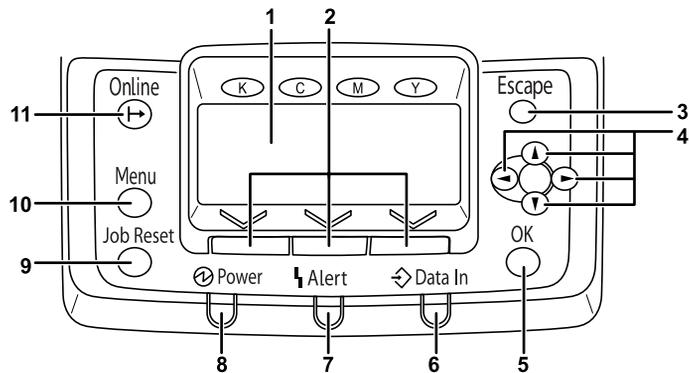
From the left, the toner is installed in the order of black (K), yellow (Y), cyan (C), and magenta (M).

Replace the relevant toner when the following messages appear:

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

# Control Panel

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



ATU049S

## 1. Display

Displays current printer status and error messages.

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

## 2. Selection Keys

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

## 3. [Escape] Key

Press this key to return to the previous display.

## 4. Scroll Keys

Press to move the cursor in each direction.

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

## 5. [OK] Key

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

## 6. Data In indicator

Blinks when the printer is receiving data from a computer. The Data In indicator lights up if there is data to be printed.

## 7. Alert Indicator

Lights up when a printer error occurs. Follow the instructions that appear on the display.

## 8. Power Indicator

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

## 9. [Job Reset] Key

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

## 10. [Menu] Key

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

## 11. [Online] Key

Indicates whether the printer is online or offline. Press this to switch between online and offline status.

When the lamp is lit, the printer is online, enabling data reception from connected computers.

When the lamp is unlit, the printer is offline, disabling data reception from the connected computers.

While configuring settings, press the [Online] key to return to the initial screen.

# Display Panel

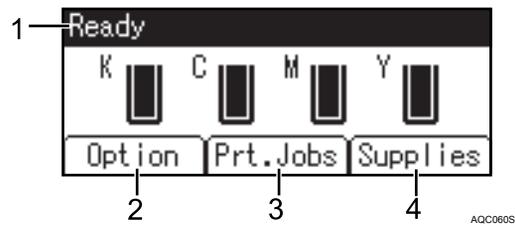
This section explains configuration using the initial screen of the display panel.

The items are highlighted when selected.

## ★ Important

- Do not touch the display panel.

The following screen appears when you turn on the printer.



### 1. Operational Status or Messages

Displays the printer status or the messages.

### 2. [Option]

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

### 3. [Prt.Jobs]

Press to display print jobs sent from a computer.

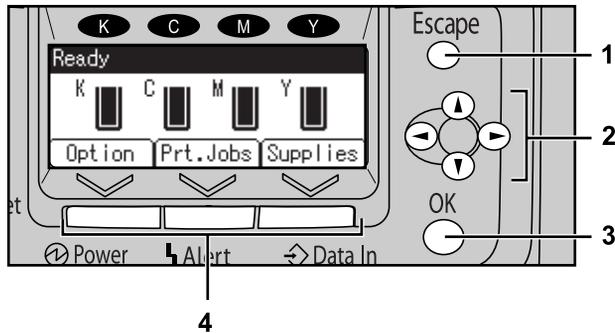
### 4. [Supplies]

Press to display the menu of supplies for the printer.

## ↓ Note

- Toner levels are displayed by default. To turn off the toner level display, select [Maintenance] → [General Settings] → [Display Supply Info] → [Off].
- Adjust the brightness if the screen is dark.

## Reading the Display and Using Keys



ATU051S

### 1. [Escape] key

Cancels an operation or returns to the previous display.

### 2. Scroll keys

Move the cursor in each direction.

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

### 3. [OK] key

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

### 4. Selection keys

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

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

# 2. Installing Options

## Available Options

By installing options, you can improve printer performance and expand the available features. For the specifications of each option, see p.229 "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.

### Option list

The following is a list of options for this printer.

Option List	Description
Tray Unit TK3000	500-sheet paper feed unit
Paper Feed Unit PB3000	1000-sheet paper feed unit
LCIT PB3010	2000-sheet paper feed unit
Memory Unit Type C 128 MB	128 MB SDRAM module
Memory Unit Type C 256 MB	256 MB SDRAM module
User Account Enhance Unit Type E	User account enhance unit
Gigabit Ethernet Board Type A	Gigabit Ethernet board
USB Host Interface Unit Type A	USB host board
IEEE 802.11b Interface Unit Type I	IEEE 802.11b interface unit (120V)
IEEE 802.11b Interface Unit Type H	IEEE 802.11b interface unit (220-240V)
Bluetooth Interface Unit Type 3245	Bluetooth interface unit
IEEE 1284 Interface Board Type A	IEEE 1284 interface board
Camera Direct Print Card Type C	Camera direct print card
Data Overwrite Security Unit Type G	Data overwrite security unit

For installation of the options listed below, contact your sales or service representative.

Option List	Description
Bridge Unit C810	Bridge unit
Booklet Finisher SR3000	Booklet finisher
Punch Kit PU3000 NA	Punch kit (for booklet finisher, 2 and 3 holes type)
Punch Kit PU3000 EU	Punch kit (for booklet finisher, 2 and 4 holes type)
Punch Kit PU3000 SC	Punch kit (for booklet finisher, 4 holes type)
Finisher SR3030	2 tray finisher
Punch Unit Type 3260 NA 3/2	Punch kit (for 2 tray finisher, 2 and 3 holes type)
Punch Unit Type 3260 EU 2/4	Punch kit (for 2 tray finisher, 2 and 4 holes type)
Punch Unit Type 3260 SC	Punch kit (for 2 tray finisher, 4 holes type)

## Order of Option Installation

When installing multiple options, the following order is recommended:

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

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

### 2. Attach the 1000/2000-sheet paper feed unit

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

### 3. Attach the SDRAM module

Install the expansion memory in the controller board slot. There are two types of memory units, 128 MB and 256 MB.

### 4. Install the user account enhance unit

Install the module in the user account enhance unit slot of the controller board.

### 5. Install the optional interface board

Install an optional Gigabit Ethernet board, IEEE 802.11b interface unit, Bluetooth interface unit or IEEE 1284 interface board in the left slot.

Install a USB host board in the right slot.

### 6. Install a camera direct print card or security card

Insert the camera direct print card or security card in the card slot of the controller board.

## 7. Attach the bridge unit

To use the booklet finisher or 2 tray finisher, remove the output tray and attach the bridge unit.

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

## 8. Attach the booklet finisher or 2 tray finisher

Attach the bridge unit first, then attach this option on the left side of the printer. To attach this option, the 1000-sheet paper feed unit or 2000-sheet paper feed unit must be attached already.

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

## 9. Attach the punch unit to the finisher

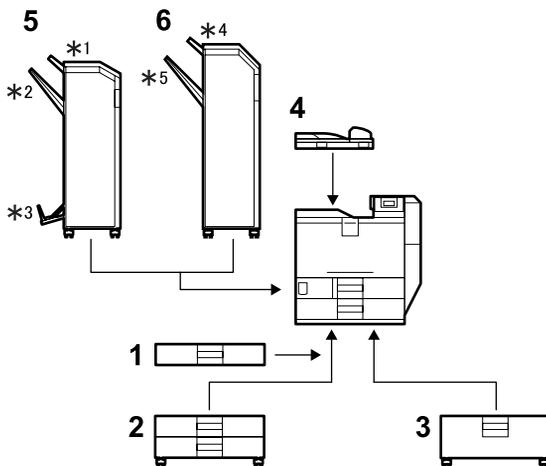
Attach this option to add punch capability to the finisher.

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

## Installing Options

Install options in the positions shown below.

### External options



ATU086S

#### 1. 500-sheet paper feed unit

Attach to the underside of the printer. Up to 550 sheets of paper can be loaded, when using plain paper. The 500-sheet paper feed unit will be identified as "Tray 3".

See p.28 "Attaching the 500-sheet Paper Feed Unit to the 1000-sheet Paper Feed Unit".

#### 2. 1000-sheet paper feed unit

Attach to the underside of the printer, or of the 500-sheet paper feed unit. Up to 1100 sheets (550 sheets per tray) of paper can be loaded, when using plain paper. Depending on where it is attached, the trays of the 1000-sheet paper feed unit will be identified as follows:

When attached to the printer itself: "Tray 3", "Tray 4"

When attached to the 500-sheet paper feed unit: "Tray 4", "Tray 5"

See p.30 "Attaching the Paper Feed Unit".

3. 2000-sheet paper feed unit

Attach to the underside of the printer. Up to 2000 sheets of paper can be loaded, when using plain paper. Including the standard paper trays (550 sheets × 2 trays) and bypass tray (100 sheets), a maximum of 3,200 sheets of paper can be loaded at one time. The 2000-sheet paper feed unit will be identified as "Tray 3".

See p.30 "Attaching the Paper Feed Unit".

4. Bridge unit

Remove the output tray and attach the bridge unit. The bridge unit sorts output going to the finisher and output tray.

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

5. Booklet finisher

Attach the bridge unit first, then attach this option on the left side of the printer. The finisher provides features such as shift collate, stapling, binding and punching. In addition, it also supports print job sorting features, such as shifting the output tray for each job.

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

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

6. 2 Tray finisher

Attach the bridge unit first, then attach this option on the left side of the printer. The finisher provides features such as shift collate, stapling and punching. In addition, it also supports print job sorting features, such as shifting the output tray for each job.

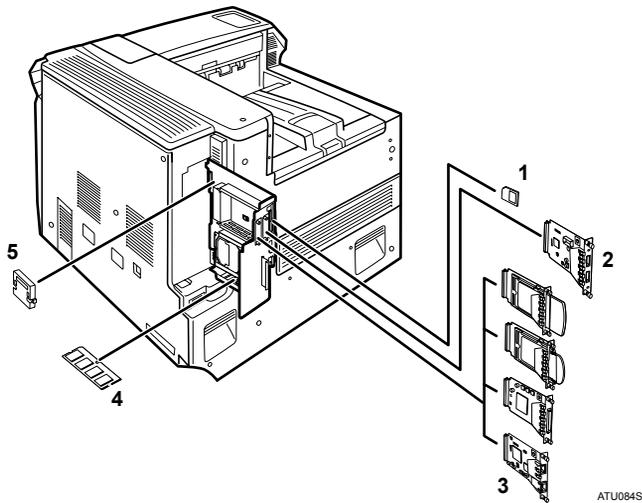
- \* 4: Finisher upper tray
- \* 5: Finisher shift tray

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

**Paper feed unit and finisher combinations**

A finisher can be attached only when the 1000 or 2000-sheet paper feed unit is used without combination with the 500-sheet paper feed unit.

## Interior



1. Camera direct print card/Security card  
p.56 "Installing a Camera Direct Print Card or Security Card"
2. USB host interface board  
p.54 "Installing the USB Host Interface Board"
3. Optional interface board
  - Gigabit Ethernet board  
p.43 "Installing the Gigabit Ethernet Board"
  - IEEE 802.11 b interface unit  
p.46 "Installing the IEEE 802.11 b Interface Unit"
  - Bluetooth interface unit  
p.49 "Installing the Bluetooth Interface Unit"
  - IEEE 1284 interface board  
p.52 "Installing the IEEE 1284 Interface Board"
4. SDRAM module  
p.35 "Attaching the SDRAM Module"
5. User account enhance unit  
p.39 "Installing the User Account Enhance Unit"

### ↓ Note

- For the specifications of each option, see p.229 "Specifications".

### 📖 Reference

- p.229 "Specifications"

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## Cautions When Re-installing the Controller Board

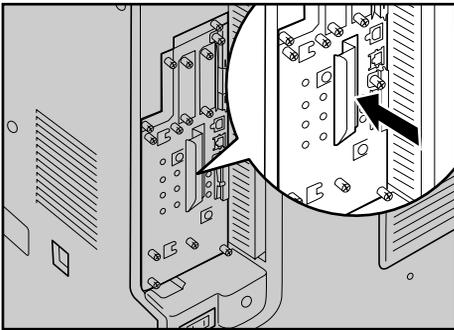
---

When installing options inside the controller board, handle the board carefully while it is outside the printer. To re-install the controller board, holding the handle in the center of the board, push the board firmly into the printer.

2

**★ Important**

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



ATU039S

# Attaching the Optional Paper Feed Unit

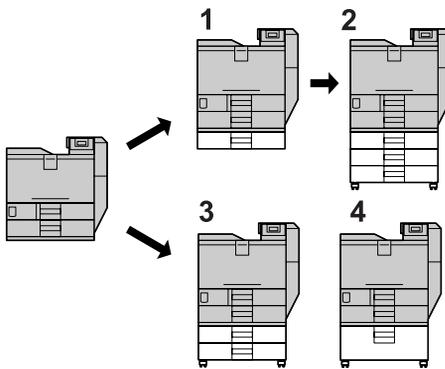
## ★ Important

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

2

## Option configurations

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



ATU085S

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

See p.30 "Attaching the Paper Feed Unit" for attachment instructions.

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

To install options in this configuration, first see p.28 "Attaching the 500-sheet Paper Feed Unit to the 1000-sheet Paper Feed Unit" for instructions about attaching the 500-sheet paper feed unit to the 1000-sheet paper feed unit. Then, see p.30 "Attaching the Paper Feed Unit" for instructions about attaching this to the printer.

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

See p.30 "Attaching the Paper Feed Unit" for attachment instructions.

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

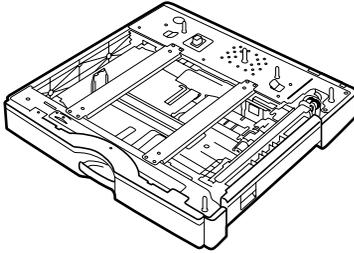
See p.30 "Attaching the Paper Feed Unit" for attachment instructions.

## Package contents

The contents of the package for each option are shown below.

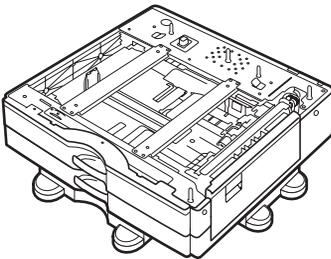
- Package contents for 500-sheet paper feed unit

- 500-sheet paper feed unit
- Two brackets
- Three screws



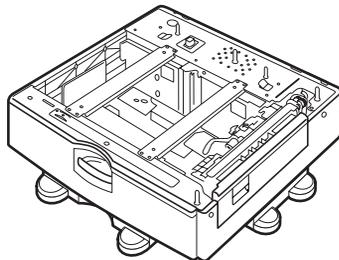
ATU040S

- Package contents for 1000-sheet paper feed unit
- 1000-sheet paper feed unit
- Two brackets
- Three screws



ATU041S

- Package contents for 2000-sheet paper feed unit
- 2000-sheet paper feed unit
- Two brackets
- Three screws



ATU042S

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

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

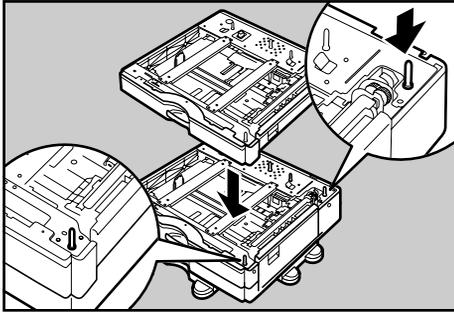
### **⚠ CAUTION**

- The 500-sheet paper feed unit weighs approximately 13.5 kg (29.8 lb.).
- When moving the paper feed unit, hold the bottom at both sides, and then lift the optional paper feed unit slowly. Lifting it carelessly or dropping it may cause an injury.

#### 1. Check the contents of the package.

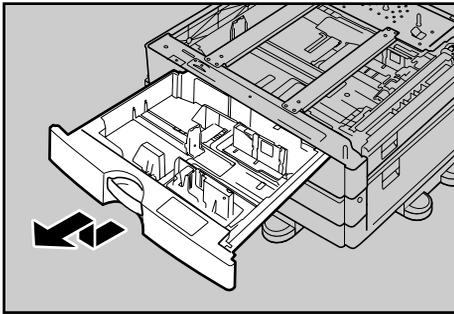
2. Remove the packaging from the paper feed unit.
3. Lift the 500-sheet paper feed unit, align it with the top of the 1000-sheet paper feed unit, and slowly lower it straight down.

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



ASZ183S

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

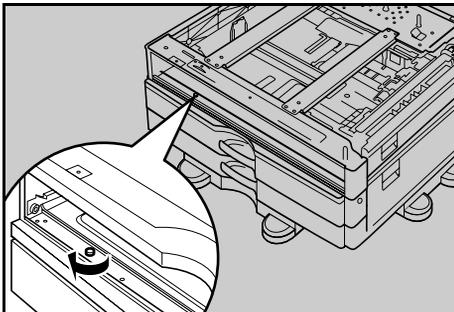


ASZ268S

Place the tray on a flat surface.

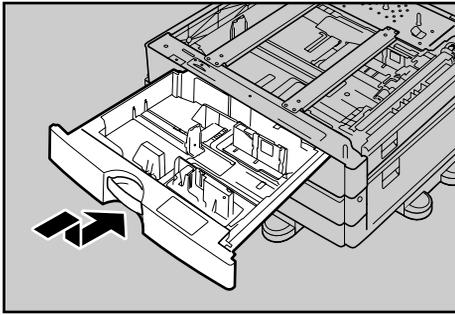
5. Attach a screw in the hole on the left side of the tray opening to secure it to the paper feed unit.

Tighten the screw firmly using a coin.



ASZ185S

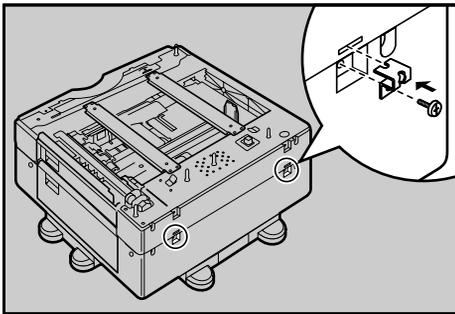
6. Lift the front of the tray, and slide it carefully into the paper feed unit until it stops.



ASZ184S

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

Tighten the screws firmly using a coin.



ASZ197S

## Attaching the Paper Feed Unit

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

### CAUTION

- The printer weights approximately 95 kg (209.5 lb.).
- Four or more people are required to move the printer. Hold the handles located on both sides, and then lift it slowly. Lifting it carelessly or dropping it may cause an injury.

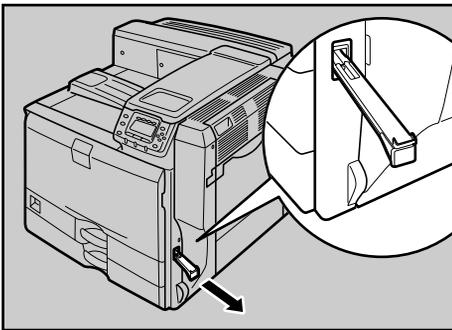
### Important

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

- Before using the new paper feed unit, you must configure settings in the printer driver.
  - Four or more people are required for installation.
1. Check the contents of the package.
  2. Turn the printer off and unplug the power cable.
  3. Remove the packaging from the paper feed unit.
  4. When using the 1000-sheet paper feed unit with the 500-sheet paper feed unit, attach the units to each other first, and then attach them to the printer.

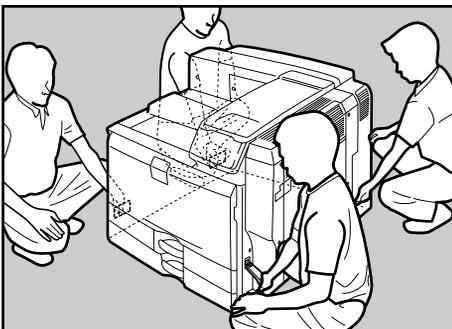
For instructions, see p.28 "Attaching the 500-sheet Paper Feed Unit to the 1000-sheet Paper Feed Unit".

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



ASZ076S

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

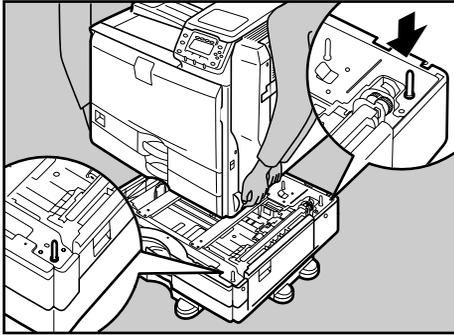


ASZ077S

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

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

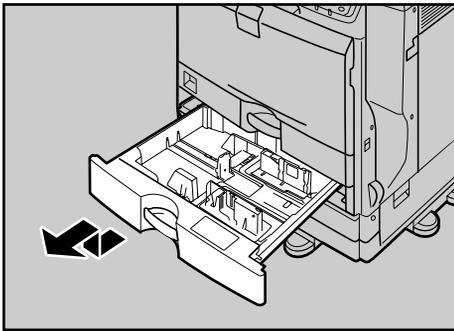
Place it so that it is held firmly in place by the vertical pins.



AS2254S

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

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

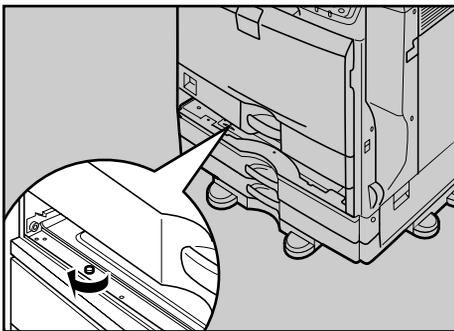


AS2255S

Place the tray on a flat surface.

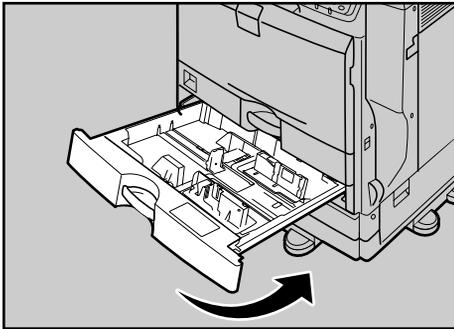
- 9. Attach a screw in the hole on the left side of the tray opening to secure the printer to the paper feed unit.**

Tighten the screw firmly using a coin.



AS2256S

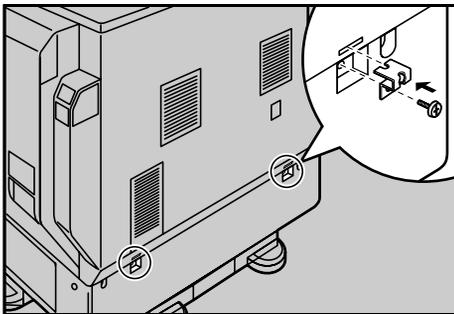
10. Lift the front of the tray, and slide it carefully into the printer until it stops.



ASZ2575

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

Tighten the screws firmly using a coin.



ASZ2585

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

**Note**

- To confirm whether the optional paper feed unit was correctly attached, print the configuration page, and check "Connection Equipment" on the configuration page. If the unit was attached correctly, the following will be displayed:
  - 500-sheet paper feed unit: Single Tray
  - 1000-sheet paper feed unit: Twin Trays
  - 2000-sheet paper feed unit: LCT
- If the tray was not installed properly, repeat the procedure from step 2. If it cannot be installed correctly even after reattempting installation, contact your sales or service representative.
- If the print area is not centered correctly, see p.167 "Adjusting Printing Position".
- For information about printing the configuration page, see "Test Printing", Quick Installation Guide.

**Reference**

- "Test Printing", Quick Installation Guide

- p.167 "Adjusting Printing Position"

# Attaching the SDRAM Module

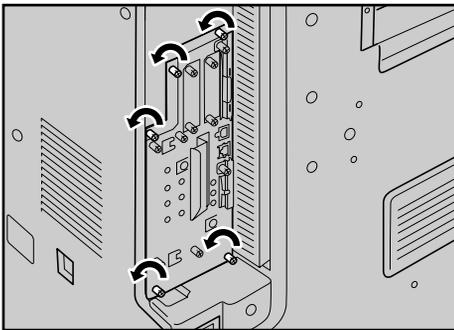
## ⚠ CAUTION

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

## ★ Important

- Before touching the SDRAM module, ground yourself by touching something metal to discharge any static electricity. Static electricity can damage the SDRAM module.
- Do not subject the memory unit to physical shocks.
- The printer comes equipped with 256 MB of memory. This can be expanded to a maximum of 512 MB.
- Before using the new memory unit, you must configure settings in the printer driver.

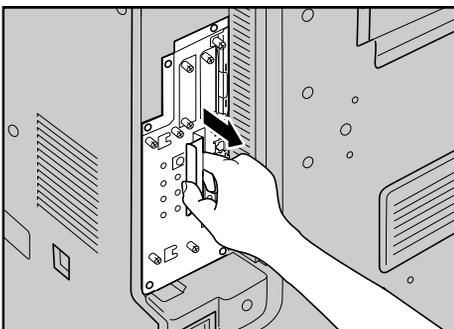
1. Turn the printer off and unplug the power cable.
2. Remove the five screws securing the controller board.



ATU003S

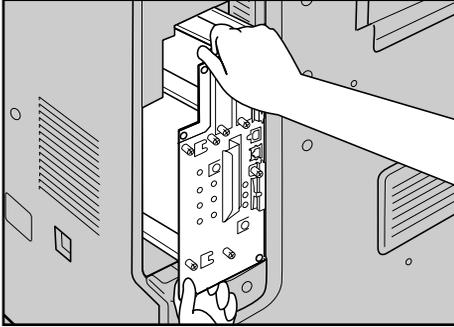
The removed screws will be used to secure the controller board again later.

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

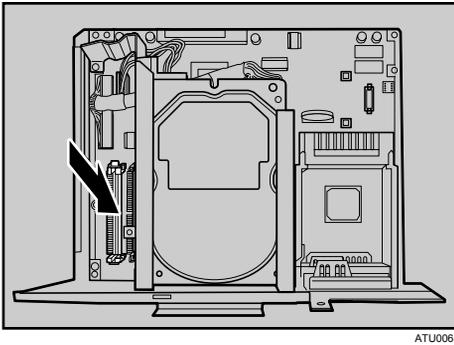


ATU004S

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

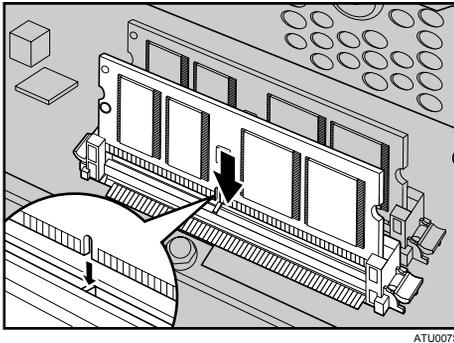


**4. Install the SDRAM module in the indicated slot.**

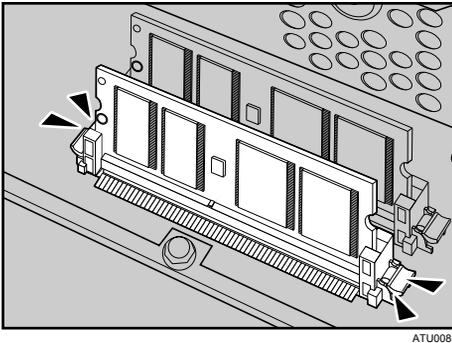


Two slots are provided for the SDRAM modules. The default 256 MB SDRAM module is installed in the inner slot. To install additional memory, insert the additional SDRAM module to the outer slot.

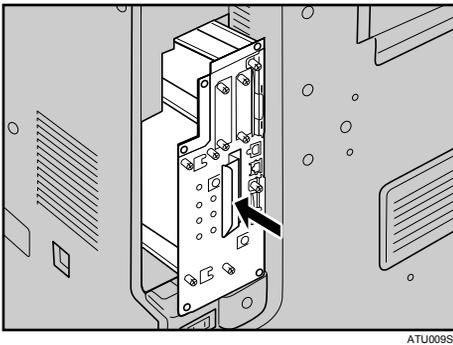
**5. Align the notch on the SDRAM module with the slot, and insert it vertically.**



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

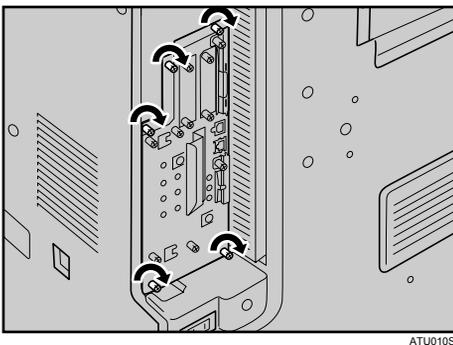


7. When also installing the user account enhance unit, install it before returning the controller board to the printer.
8. Fit the controller board into the printer, and push it carefully in until it stops.



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

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



#### ↓ Note

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

- The table below shows the total SDRAM module capacities.

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

2

- If the module was not installed properly, repeat the procedure from step 1. If it cannot be installed correctly even after reattempting installation, contact your sales or service representative.
- For information on printing the configuration page, see "Test Printing", Quick Installation Guide.
- Install the controller board carefully. See p.26 "Cautions When Re-installing the Controller Board" for details.

**Reference**

- "Test Printing", Quick Installation Guide
- p.26 "Cautions When Re-installing the Controller Board"

# Installing the User Account Enhance Unit

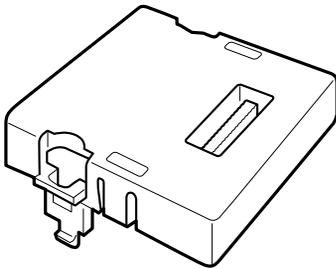
## ⚠ CAUTION

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

## ★ Important

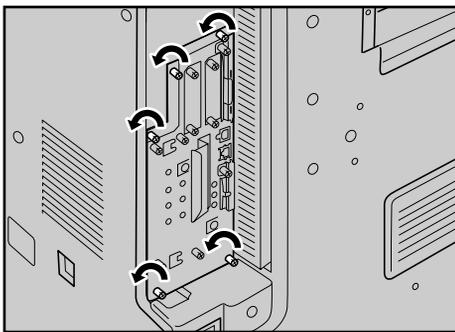
- Before beginning work, ground yourself by touching something metal to discharge any static electricity. Static electricity can damage the user account enhance unit.
- Do not subject the user account enhance unit to physical shocks.

1. Check the contents of the package.



AET080S

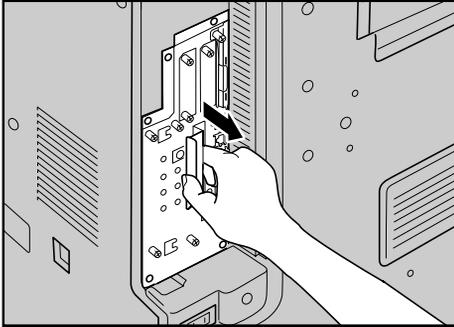
2. Turn the printer off and unplug the power cable.
3. Remove the five screws securing the controller board.



ATU003S

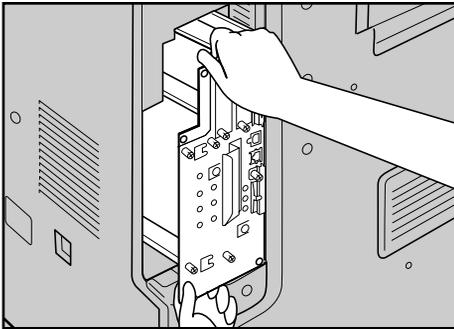
The removed screws will be used to secure the controller board again later.

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



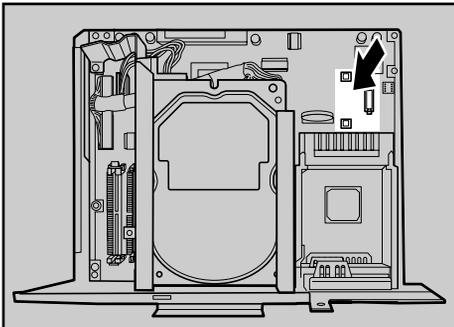
ATU004S

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



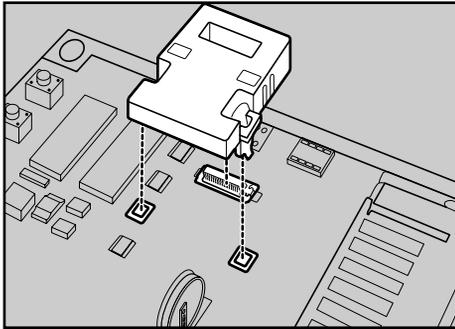
ATU005S

**5. Install the user account enhance unit as shown.**



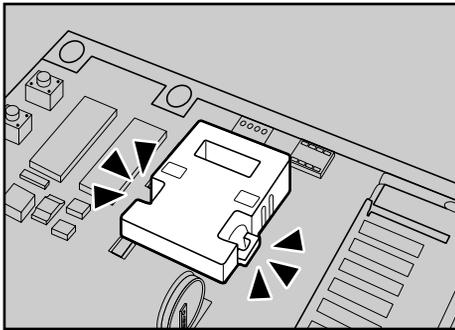
ATU011S

6. Insert the protrusions on the user account enhance unit into the holes on the controller board.



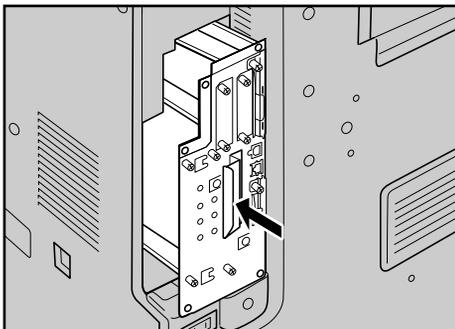
ATU012S

7. Press the user account enhance unit down until it clicks into place, and confirm that it is held securely.



ATU013S

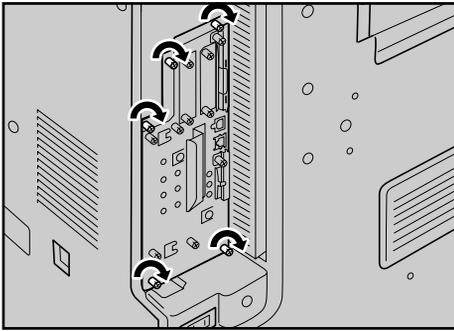
8. When also installing the SDRAM module, install it before returning the controller board to the printer.
9. Fit the controller board into the printer, and push it carefully in until it stops.



ATU009S

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

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



ATU010S

**Note**

- Confirm that the user account enhance unit was correctly installed by printing the configuration page. If it is correctly installed, "Accounting Module" will appear for "Device Connection" on the configuration page.
- If the user account enhance unit is not installed properly, repeat the procedure from step 2. If it cannot be installed correctly even after reattempting installation, contact your sales or service representative.
- Please help recycle by returning unneeded user account enhance units to your sales or service representative.
- For information about printing the configuration page, see "Test Printing", Quick Installation Guide.
- Install the controller board carefully. See p.26 "Cautions When Re-installing the Controller Board" for details.

**Reference**

- "Test Printing", Quick Installation Guide
- p.26 "Cautions When Re-installing the Controller Board".

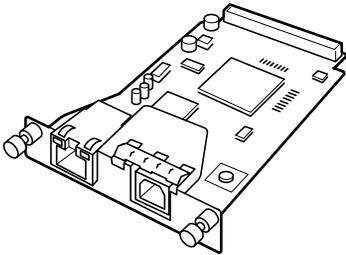
# Installing the Gigabit Ethernet Board

## ★ Important

- The printer's Ethernet and USB ports are not available when the Gigabit Ethernet board is attached to the printer. Use the Ethernet and USB ports on the Gigabit Ethernet board.
- Before beginning work, 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 package.

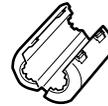
- Gigabit Ethernet board



- Protective caps (one each for the Ethernet port and the USB port)



- Ferrite core

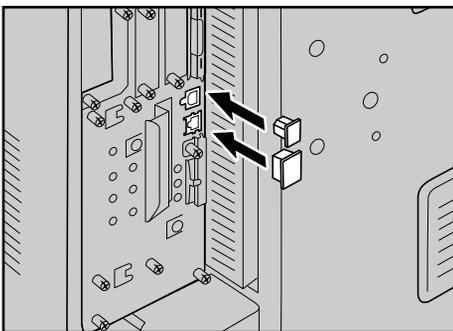


ATU001S

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

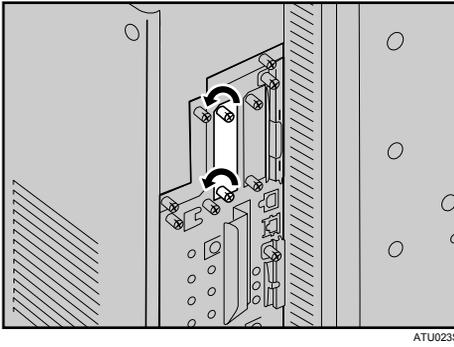
### 2. Turn the printer off and unplug the power cable.

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



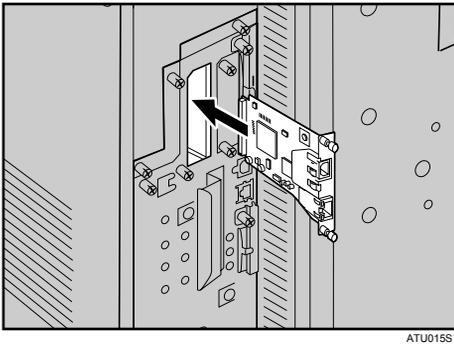
ATU014S

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



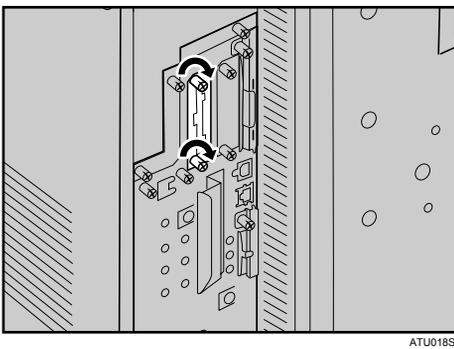
The removed cover will not be reused.

**5. Fully insert the Gigabit Ethernet board.**



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

**6. Tighten the two screws to secure the board.**



**Note**

- Confirm that the Gigabit Ethernet board was correctly installed by printing the configuration page. If it is correctly installed, "Gigabit Ethernet Board" will appear for "Device Connection" on the configuration page.

- If the board was not installed properly, repeat the procedure from step **2**. If it cannot be installed correctly even after reattempting installation, contact your sales or service representative.
- For information on printing the configuration page, see "Test Printing", Quick Installation Guide.
- Before using the Gigabit Ethernet board, you must configure settings from the printer control panel. See p.67 "Ethernet Configuration" for details.

#### Reference

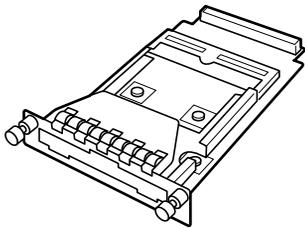
- "Test Printing", Quick Installation Guide
- p.59 "Ethernet Cable Connection"
- p.67 "Ethernet Configuration"

# Installing the IEEE 802.11b Interface Unit

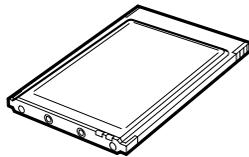
**★ Important**

- Before beginning work, ground yourself by touching something metal to discharge any static electricity. Static electricity can damage the unit.
  - Do not subject the unit to physical shocks.
1. Check the contents of the package.

• Interface unit



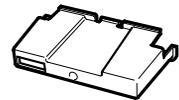
• Card



• Antenna

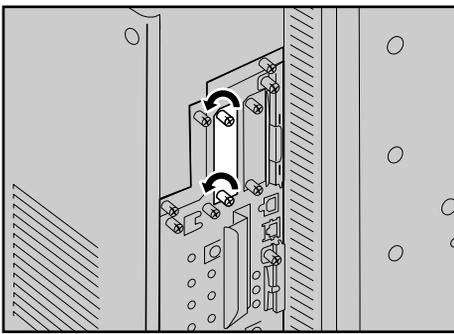


• Antenna cap



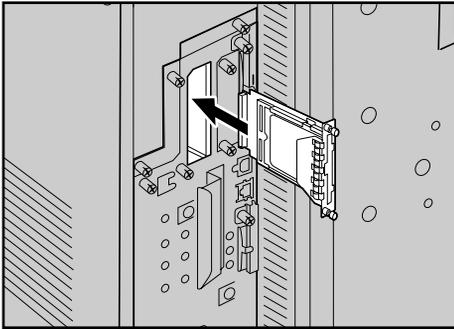
ATU0005

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



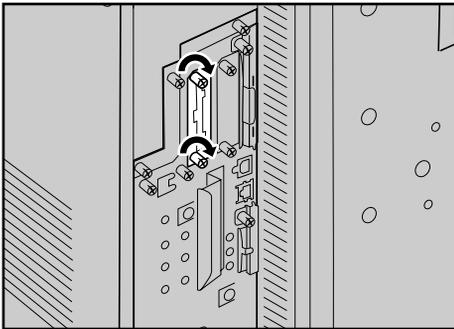
ATU0235

The removed cover will not be reused.

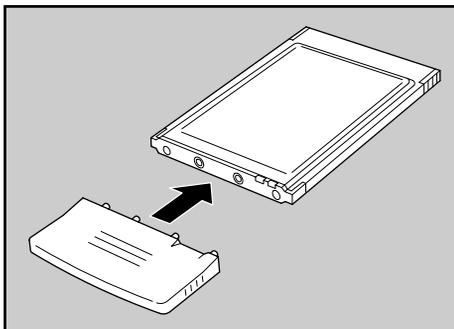
**4. Fully insert the interface unit.**

ATU017S

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

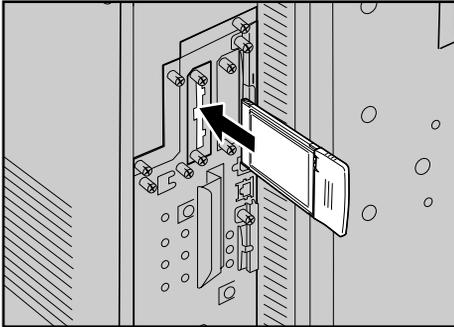
**5. Tighten the two screws to secure the interface unit.**

ATU018S

**6. Attach the antenna to the card. Attach them so that the label of the card is facing down, and the ridged side of the antenna is facing up.**

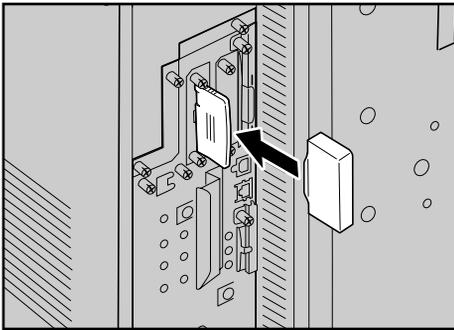
AET096S

7. With the ridged side of the antenna facing left, slowly push the card into the interface unit until it stops.



ATU019S

8. Holding the antenna cap with the two cut-off corners facing left, fit the cap over the card.



ATU020S

**Note**

- Confirm that the interface unit was correctly installed by printing the configuration page. If it is correctly installed, "IEEE 802.11b" will appear for "Device Connection" on the configuration page.
- If the board was not installed properly, repeat the procedure from step 2. If it cannot be installed correctly even after reattempting installation, contact your sales or service representative.
- Before using the IEEE 802.11b interface unit, you must configure settings from the printer control panel. See p.76 "IEEE 802.11b (Wireless LAN) Configuration" for details.
- For information on printing the configuration page, see "Test Printing", Quick Installation Guide.

**Reference**

- "Test Printing", Quick Installation Guide
- p.76 "IEEE 802.11b (Wireless LAN) Configuration"

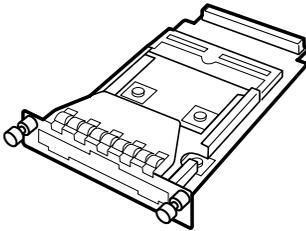
# Installing the Bluetooth Interface Unit

## ★ Important

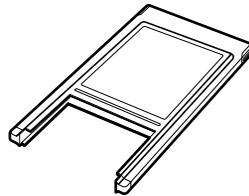
- When the Bluetooth interface unit is installed in the printer, Bluetooth-equipped devices such as computers and digital cameras can print wirelessly.
- Before beginning work, ground yourself by touching something metal to discharge any static electricity. Static electricity can damage the Bluetooth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

### 1. Check the contents of the package.

- Interface unit



- Card adapter



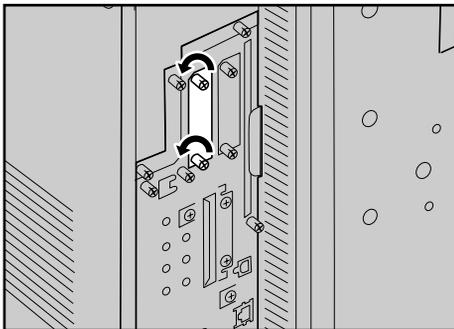
- Card



ATU047S

### 2. Turn the printer off and unplug the power cable.

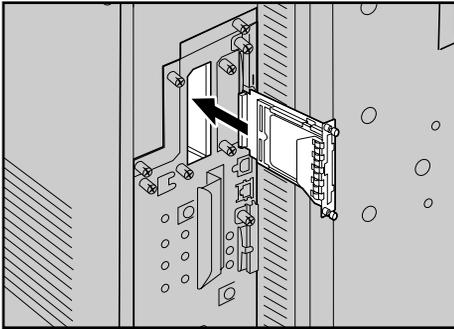
### 3. Loosen the two screws and remove the slot cover.



ASZ023S

The removed cover will not be reused.

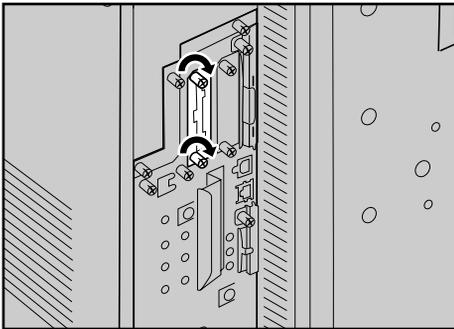
**4. Fully insert the interface unit.**



ATU017S

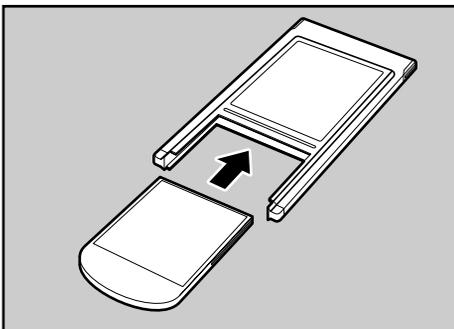
Confirm that the interface unit is firmly connected to the controller board.

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



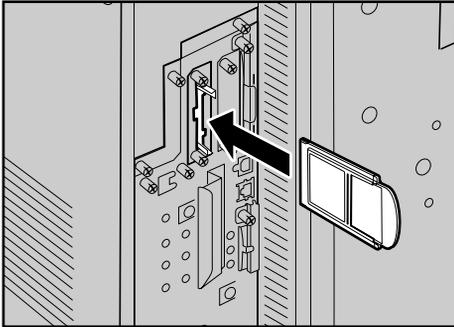
ATU018S

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



ASZ032S

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



ATU021S

**Note**

- Confirm that the Bluetooth interface unit was correctly installed by printing the configuration page. If it is correctly installed, "Bluetooth" will appear for "Device Connection" on the configuration page.
- If the board was not installed properly, repeat the procedure from step 2. If it cannot be installed correctly even after reattempting installation, contact your sales or service representative.
- For details, see the operating instructions included with the Bluetooth interface unit.
- For information on printing the configuration page, see "Test Printing", Quick Installation Guide.

**Reference**

- "Test Printing", Quick Installation Guide

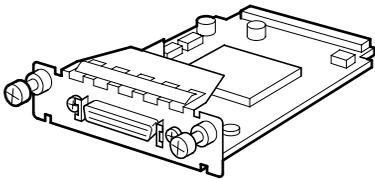
# Installing the IEEE 1284 Interface Board

**★ Important**

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

1. Check the contents of the package.

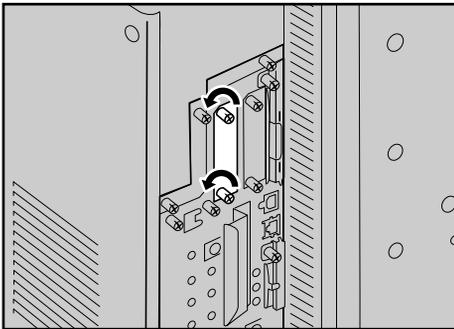
- IEEE 1284 Interface board



ATU022S

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

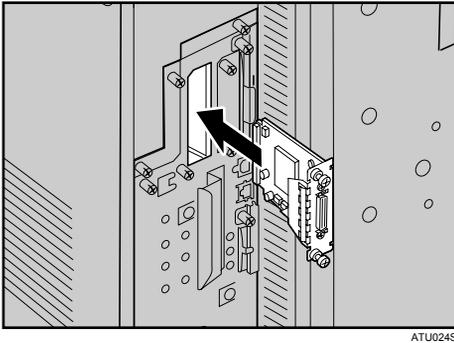
3. Loosen the two screws and remove the slot cover.



ATU023S

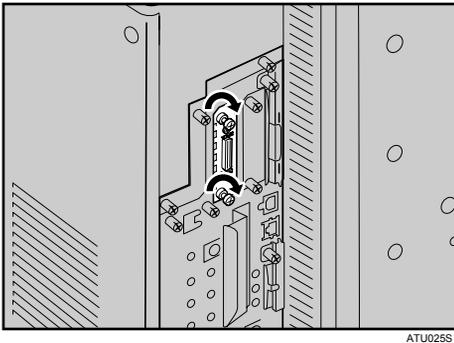
The removed cover will not be reused.

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



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

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



#### ↓ Note

- Confirm that the IEEE 1284 interface board was correctly installed by printing the configuration page. If it is correctly installed, "Parallel Interface" will appear for "Device Connection" on the configuration page.
- If the board was not installed properly, repeat the procedure from step 2. If it cannot be installed correctly even after reattempting installation, contact your sales or service representative.
- For information on printing the configuration page, see "Test Printing", Quick Installation Guide.

#### 📖 Reference

- "Test Printing", Quick Installation Guide
- p.66 "Parallel Cable Connection".

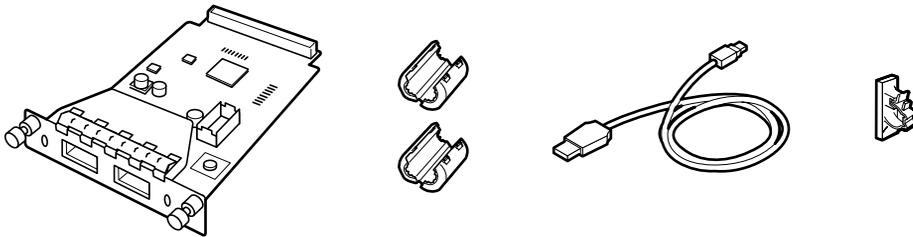
# Installing the USB Host Interface Board

**★ Important**

- Connect the USB cable from a digital camera to the USB host interface board.
- Connections between the USB host interface board and a computer are not supported.
- Before beginning work, ground yourself by touching something metal to discharge any static electricity. Static electricity can damage the USB host interface board.
- See p.63 "Digital Camera Connection" for details.
- Do not subject the USB host interface board to physical shocks.

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

- USB host board
- Two ferrite cores
- USB cable
- Hook

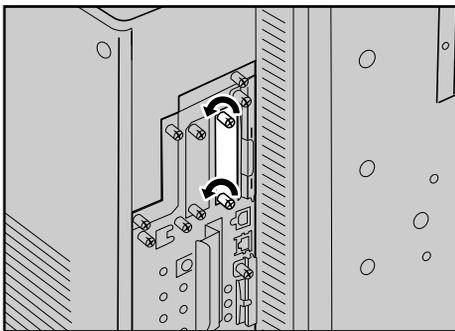


ATU044S

When using a cable other than the one included with the board, attach the two included ferrite cores to the cable.

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

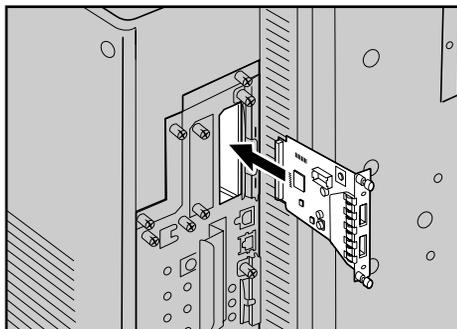
**3. Loosen the two screws and remove the slot cover.**



ATU026S

The removed cover will not be reused.

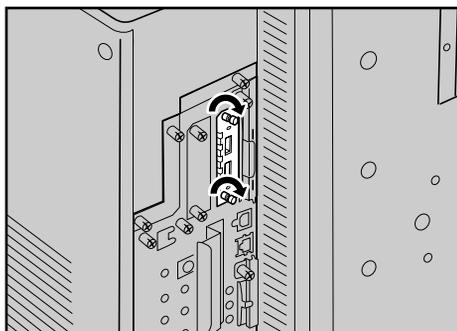
#### 4. Fully insert the interface board.



ATU027S

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

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



ATU028S

#### ↓ Note

- Confirm that the USB host interface board was correctly installed by printing the configuration page. If it is correctly installed, "USB Host" will appear for "Device Connection" on the configuration page.
- If the board was not installed properly, repeat the procedure from step 2. If it cannot be installed correctly even after reattempting installation, contact your sales or service representative.
- For information on printing the configuration page, see "Test Printing", Quick Installation Guide.

#### 📖 Reference

- "Test Printing", Quick Installation Guide
- p.63 "Digital Camera Connection"

# Installing a Camera Direct Print Card or Security Card

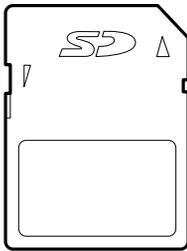
## ⚠ CAUTION

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

## ★ Important

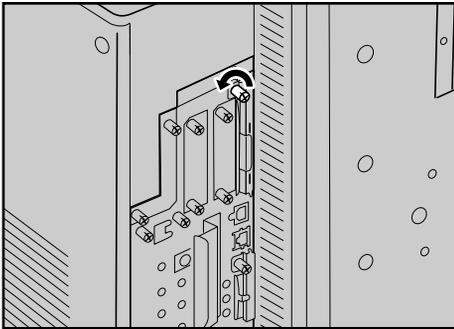
- Do not subject the card to physical shocks.

1. Check the contents of the package.



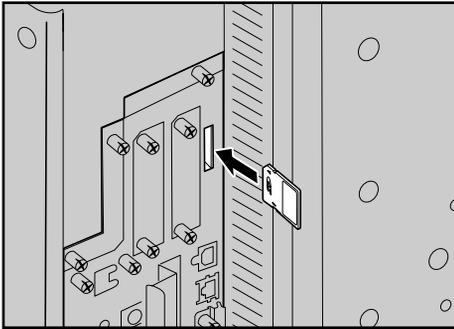
AET104S

2. Turn the printer and unplug the power cable.
3. Remove the cover of the controller board's upper expansion card slot.



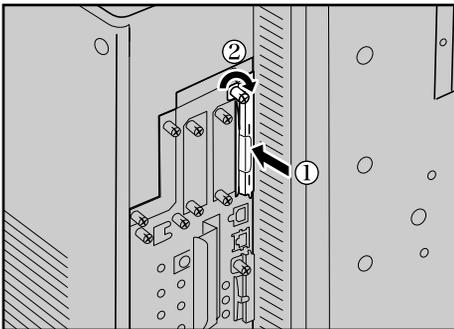
ATU029S

#### 4. Insert the expansion card into the slot until it clicks.



ATU030S

#### 5. Reattach the slot cover ( ① ), and fasten the screws to secure it ( ② ).



ATU031S

#### ↓ Note

- Do not touch the card while the printer is in use. It may come loose, even if pushed only slightly. The slot cover must be reattached.
- Confirm that the card was correctly installed by printing the configuration page.
- If the camera direct print card is installed properly, "PictBridge" will appear for "Connection Equipment" in "System Reference".
- If the card is not installed properly, repeat the procedure from the beginning. If it cannot be installed correctly even after reattempting installation, contact your sales or service representative.
- For information on printing the configuration page, see "Test Printing", Quick Installation Guide.

#### 📖 Reference

- "Test Printing", Quick Installation Guide



# 3. Connecting the Printer Cables

## Ethernet Cable Connection

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

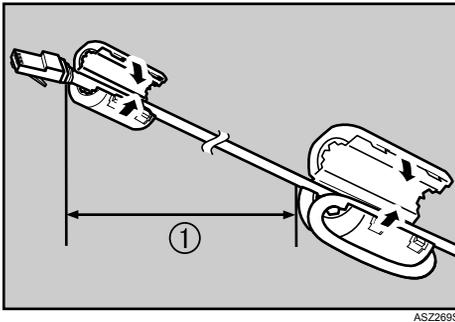
Connect 10BASE-T or 100BASE-TX cable to the printer's Ethernet port. For 1000BASE-T, the optional Gigabit Ethernet board is available.

**★ Important**

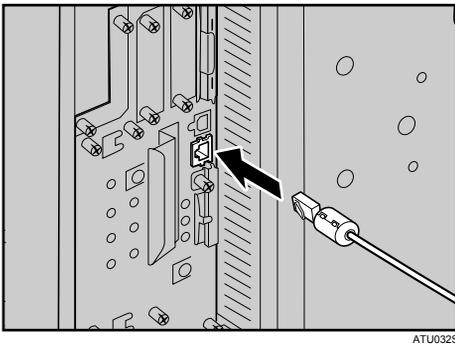
- An Ethernet cable is not supplied with this printer. Select your cable according to the network environment.
- The printer's Ethernet and USB ports are not available when the Gigabit Ethernet board is attached to the printer.

### Connecting to the standard Ethernet port

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



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

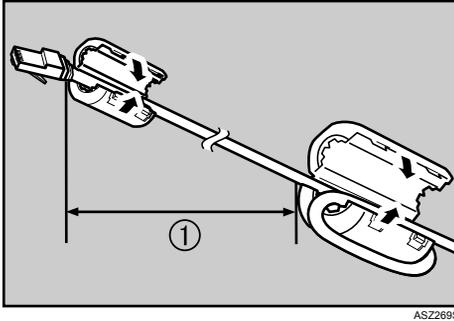


3. Connect the other end of the cable to the network, for example using a hub.

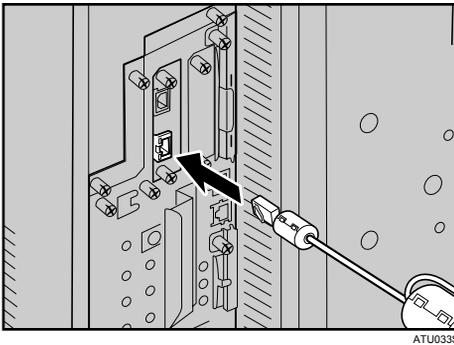
### Connecting to the Ethernet port of the Gigabit Ethernet board

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

Attach the core supplied with the printer to the connector end, and the one supplied with the Gigabit Ethernet board about 15 cm (6 inches) from the connector end ( ).



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



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

**Note**

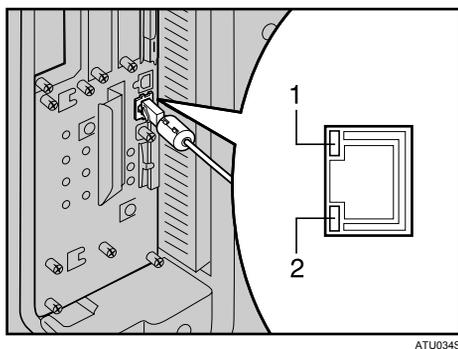
- For details about configuring the network environment, see p.67 "Ethernet Configuration".

**Reference**

- p.43 "Installing the Gigabit Ethernet Board".
- p.67 "Ethernet Configuration".

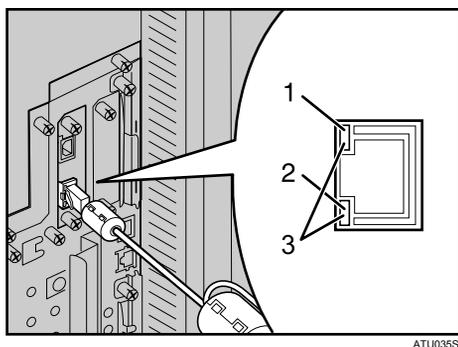
## Reading the LED Lamps

### Standard Ethernet port



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

### Optional Gigabit Ethernet board



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

# USB Cable Connection

**★ Important**

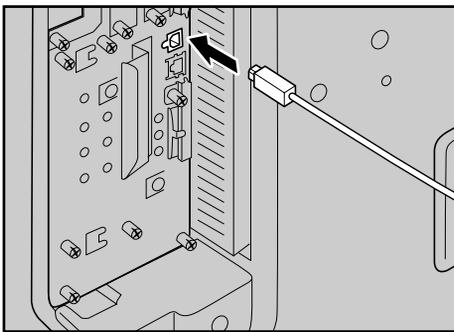
- USB connection is possible under Windows 98 SE/Me/2000/XP, Windows Server 2003, Mac OS 9.x, and Mac OS X.
- Windows Me supports USB1.1 speed.
- USB connection with Mac OS is only possible via the printer's USB port, not the Gigabit Ethernet board's USB port.
- A USB cable is not supplied with this printer. Select your cable according to the computer.

3

**1. Connect the USB cable to the printer.**

- **Connecting the USB cable to the standard USB port**

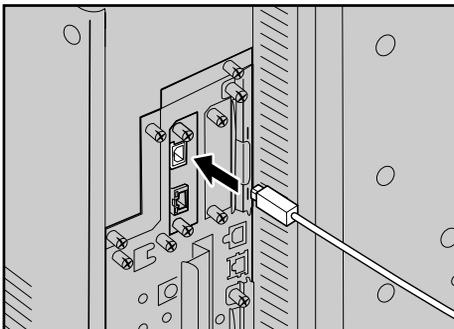
Connect the smaller connector of the USB cable to the USB port on the left side of the printer.



ATU036S

- **Connecting the USB cable to the Gigabit Ethernet board USB port**

Connect the smaller connector of the USB cable to the USB port of the Gigabit Ethernet board.



ATU037S

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

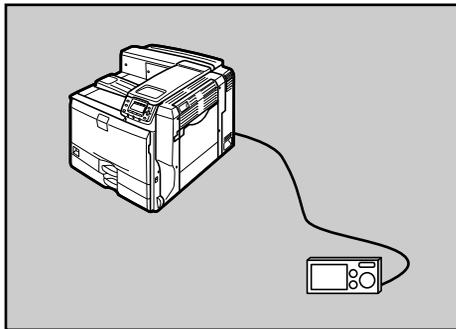
The printer is now connected to the computer. The Plug and Play screen appears on the computer display. See "Installing the Printer Driver Using USB", Software Guide for details.

**Reference**

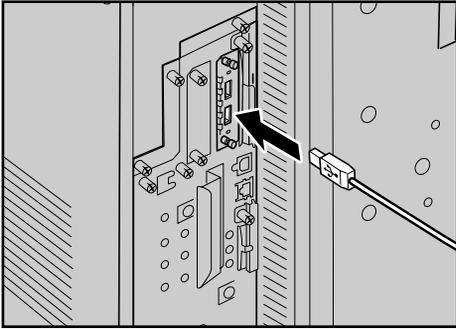
- "Installing the Printer Driver Using USB", Software Guide
- p.43 "Installing the Gigabit Ethernet Board"

## Digital Camera Connection

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

**Important**

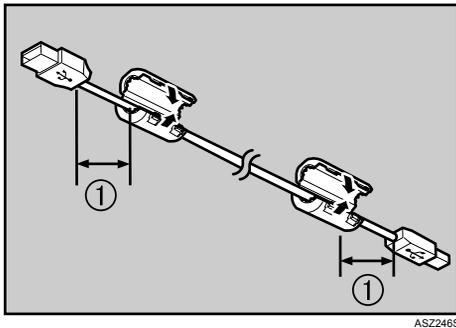
- This function requires the following optional units:
    - USB host interface board
    - Camera direct print card
  - The USB host interface board is supplied with a USB cable and a hook onto which you can hang the cable.
  - Make sure your digital camera supports PictBridge.
1. Confirm that the printer and digital camera are turned on.
  2. Connect the digital camera to the printer.
    - Using the USB cable supplied with the USB host interface board
      1. Connect to the larger connector of the USB cable to the USB host interface board.



3

• **Not using the USB cable supplied with the USB host interface board**

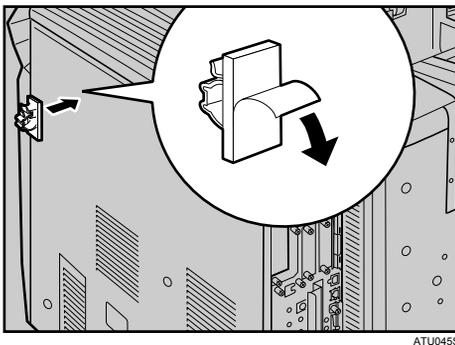
1. Attach the two ferrite cores supplied with the USB host interface board to the USB cable.  
Attach a ferrite core at each end of the USB cable about 5 cm (2 inches) from the connector.



2. Connect the larger connector of the USB cable to the USB host interface board.

3. **Connect the other connector of the USB cable to the digital camera.**
4. **Attach the hook to hang the USB cable on when not connecting to the digital camera.**

As shown below attach the hook where it will not interfere with printer operation and access.



↓ **Note**

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

**Reference**

- p.54 "Installing the USB Host Interface Board"
- p.56 "Installing a Camera Direct Print Card or Security Card"

## Parallel Cable Connection

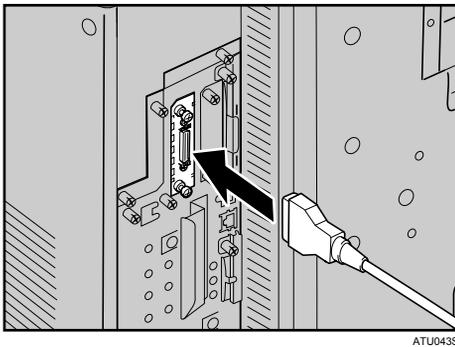
The type of cable required varies depending on the computer you are using. Make sure to use the interface cable compliant with your computer.

### ★ Important

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

3

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



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

The printer is now connected to the computer. Install the printer driver. See "Preparation for Printing", Software Guide for details.

### 📖 Reference

- "Preparation for Printing", Software Guide
- p.52 "Installing the IEEE 1284 Interface Board"

# 4. Configuration

## Ethernet Configuration

Configure the following network settings according to the network interface you are using. You can use SmartDeviceMonitor for Admin or a Web browser to configure 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	Default
Machine IPv4 Address	<ul style="list-style-type: none"><li>• DHCP: On</li><li>• IPv4 Address: 011.022.033.044</li><li>• Subnet Mask: 000.000.000.000</li><li>• Gateway Address: 000.000.000.000</li></ul>
IPv6 Stateless Setting	Active
NW Frame Type	Auto Select
Effective Protocol	<ul style="list-style-type: none"><li>• IPv4: Active</li><li>• IPv6: Inactive</li><li>• NetWare: Active</li><li>• SMB: Active</li><li>• AppleTalk: Active</li></ul>
Ethernet Speed	Auto Select
LAN Type	Ethernet

**↓ Note**

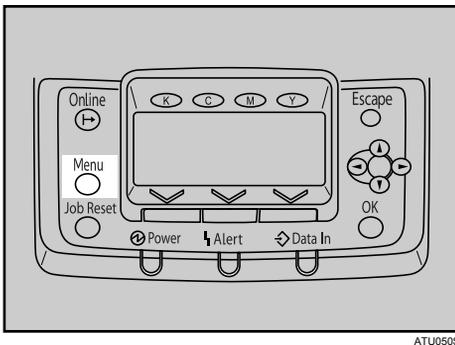
- If DHCP is in use on your network, the IP address, subnet mask, and gateway address are all set automatically.
- Configure these setting as necessary. See Software Guide for details.

## Specifying an IP Address (No DHCP)

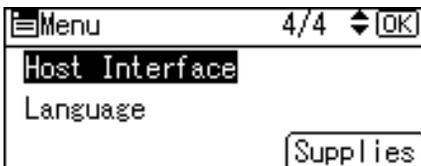
Follow this procedure to assign a specific IP address to the printer. This is only necessary when you will use the printer on a network without DHCP, or want to prevent the printer's IP address from changing.

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

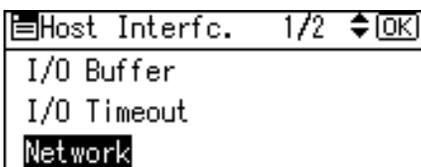
1. Press the [Menu] key.



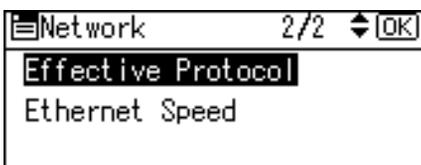
2. Press the [▼] or [▲] key to select [Host Interface], and then press the [OK] key.



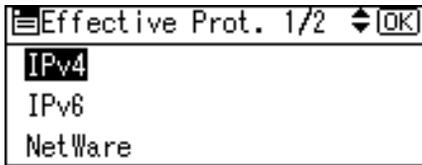
3. Press the [▼] or [▲] to select [Network], and then press the [OK] key.



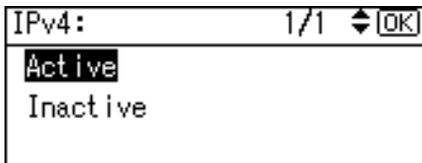
4. Press the [▼] or [▲] key to select [Effective Protocol], and then press the [OK] key.



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



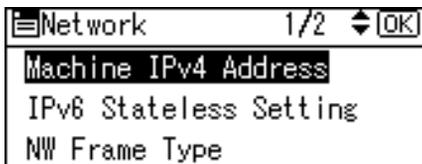
6. Press the [▼] or [▲] key to select [Active] or [Inactive], and then press the [OK] key.



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

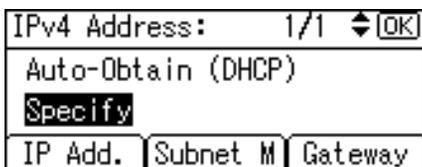
- Select [Inactive] for unused protocols.
- Enable IPv4 to use the pure IPv4 environment of NetWare5/5.1, Netware 6/6.5.

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



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

9. To specify the IP Address, press [IP Add].



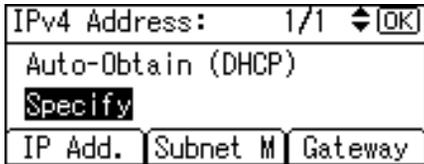
If you use IPv4, also assign the subnet mask and gateway address. To assign these, press [Subnet M] or [Gateway].

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

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

- Change the IP address from "011.022.033.044" to an IP address supported by your network.

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



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

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

#### **E** Reference

- For details about printing the configuration page, see "Test Printing", Quick Installation guide.

## 4

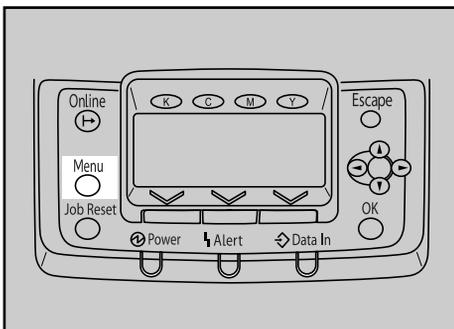
### Receiving an IP Address Automatically (DHCP)

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

#### **★** Important

- When [DHCP] is selected, you cannot configure settings for the following items:
  - "IP Address"
  - "Subnet Mask"
  - "Gateway Address"
- Consult your network administrator for information about configuring network settings.

- Press the [Menu] key.

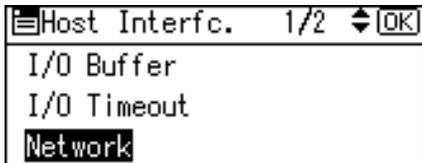


ATU050S

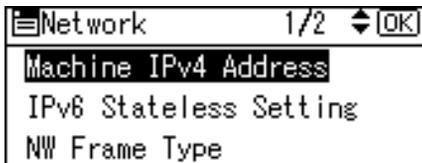
2. Press the [▼] or [▲] key to select [Host Interface], and then press the [OK] key.



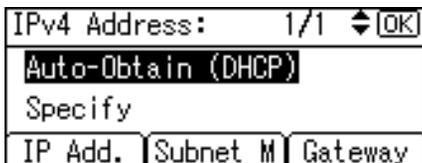
3. Press the [▼] or [▲] key to select [Network], and then press the [OK] key.



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



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



The printer will automatically receive an IP address.

To check the detected addresses, press the followings:

- [IP Address]  
IP address
- [Subnet Mask]  
Subnet Mask
- [Gateway]  
Default Gateway

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

7. Print a configuration page to confirm the settings.

#### Reference

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

## Configuring Network Settings When Using NetWare

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

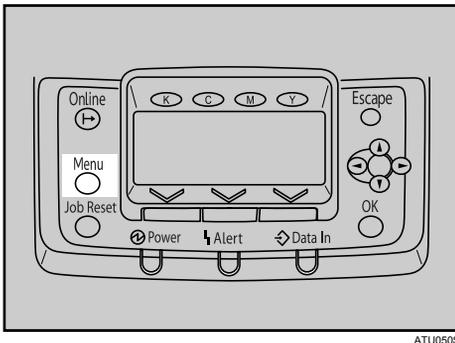
Select one of the items below as necessary.

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

### ★ Important

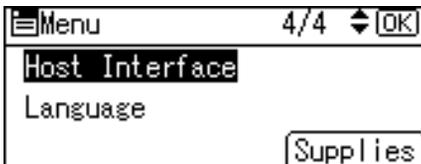
- Usually, you can use the default (Auto Select). When you first select [Auto Select,] the frame type detected by the printer is adopted. However, if your network can use more than two frame types, the printer may fail to select the correct frame type with [Auto Select] selected. In this case, select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

1. Press the [Menu] key.

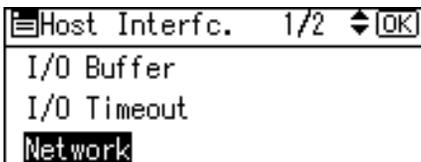


ATU050S

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



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



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

Network	1/2	◆	OK
Machine IPv4 Address			
IPv6 Stateless Setting			
<b>NW Frame Type</b>			

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

NW Frame Type:	1/2	◆	OK
<b>Auto Select</b>			
Ethernet II			
Ethernet 802.2			

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

### Reference

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

## Setting the Ethernet Speed

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

Router/HUB	Printer				
	[10Mbps Half D.]	[10Mbps Full D.]	[100Mbps Half D.]	[100Mbps Full D.]	[Auto Select]
10 Mbps half duplex	<input type="radio"/>	-	-	-	<input type="radio"/>
10 Mbps full duplex	-	<input type="radio"/>	-	-	-
100 Mbps half duplex	-	-	<input type="radio"/>	-	<input type="radio"/>
100 Mbps full duplex	-	-	-	<input type="radio"/>	-

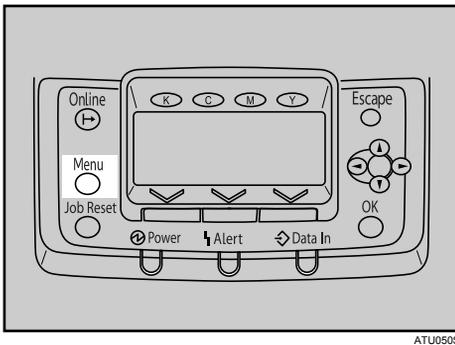
Router/HUB	Printer				
	[10Mbps Half D.]	[10Mbps Full D.]	[100Mbps Half D.]	[100Mbps Full D.]	[Auto Select]
auto-negotiation (auto selection)	○	-	○	-	○

**★ Important**

- Connection cannot be established if the selected Ethernet speed does not match your network's transmission speed.
- The use of this feature is recommended. To use it, select [Auto Select].

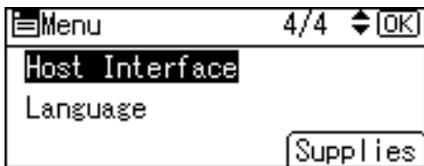
4

1. Press the [Menu] key.

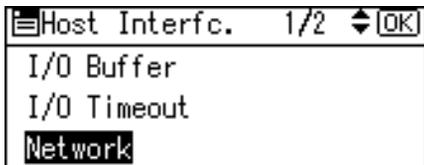


ATU050S

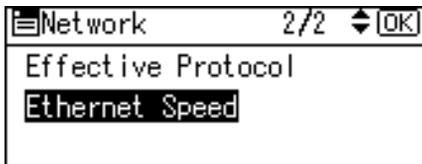
2. Press the [▼] or [▲] key to select [Host Interface], and then press the [OK] key.



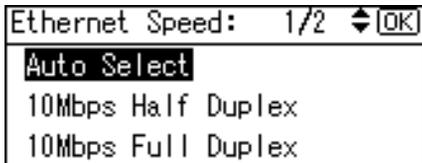
3. Press the [▼] or [▲] key to select [Network], and then press the [OK] key.



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



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



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

**Note**

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

## IEEE 802.11b (Wireless LAN) Configuration

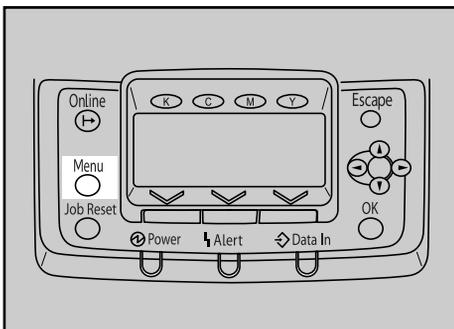
Configure the printer to use IEEE 802.11b (Wireless LAN). The following table shows the control panel settings and their defaults. These items appear in the [Host Interface] menu.

Setting Name	Default
Communication Mode	802.11 Ad hoc
Channel	<b>220-240V</b>
	13
	<b>120V</b>
	11
Communication Speed	Auto
SSID	blank
WEP	Off

### ↓ Note

- Ethernet and wireless LAN (IEEE 802.11b) cannot be used at the same time.
- To use IEEE 802.11b (Wireless LAN), set the following using the control panel: press the [Menu] key, and then select [Host Interface], [Network], [LAN Type], and then [IEEE 802.11b]. In addition, set the IP address, subnet mask, gateway address, DHCP, Frame Type (NW), and active protocol as explained in p.67 "Ethernet Configuration".

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

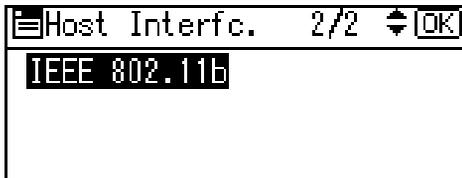


ATU050S

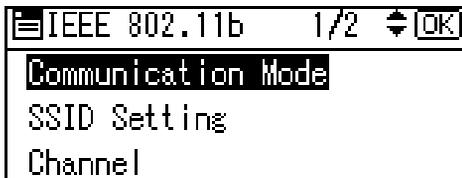
- Press the [▼] or [▲] key to select [Host Interface], and then press the [OK] key.



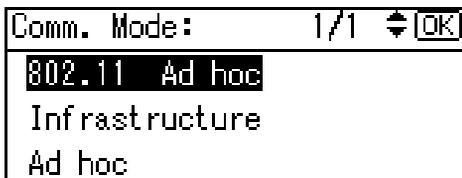
- Press the [▼] or [▲] key to select [IEEE 802.11b], and then press the [OK] key.



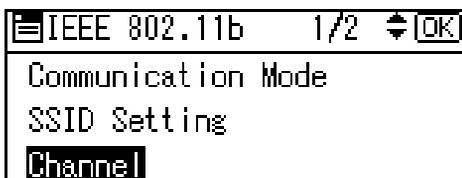
- Press the [▼] or [▲] key to select [Communication Mode], and then press the [OK] key.



- Press the [▼] or [▲] key to select the transmission mode of IEEE 802.11b, and then press the [OK] key.



- To communicate wirelessly with a device that does not require an SSID to be set, select [Ad hoc].
  - The transmission mode of IEEE 802.11b can also be set using the Web Image Monitor. For details, see Web Image Monitor help, and "Configuring the Network Interface Board Using Web Browser", Software Guide.
- If [802.11 Ad hoc] or [Ad hoc] is selected for [Communication Mode], confirm the channel to use for transmission.
  - Press the [▼] or [▲] key to select [Channel], and then press the [OK] key.



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

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

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

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

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

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## Setting the SSID

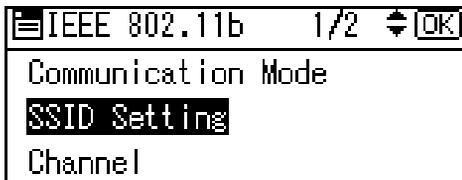
---

## 4

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

Ask the network administrator for the SSID to use.

1. In the [IEEE 802.11b] menu, press the [▼] or [▲] key to select [SSID Setting], and then press the [OK] key.



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

2. Press the [▼] or [▲] key to select [Enter SSID], and then press the [OK] key.
3. Press the [▼] or [▲] key to enter characters, and then press the [OK] key.



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

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

4. Print a configuration page to confirm the settings.

**Reference**

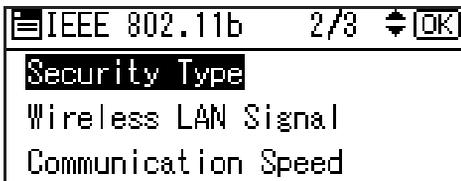
- The SSID can also be set using a Web browser. For details, see the Web Image Monitor Help, and "Configuring the Network Interface Board Using Web Browser", Software Guide.
- For details about printing the configuration page, see "Test Printing", Quick Installation Guide.

## Setting a WEP Key

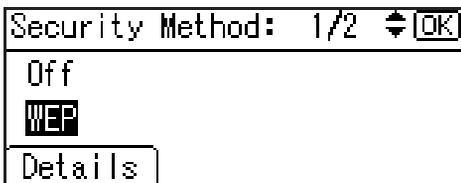
If the wireless network uses WEP to encrypt transmitted data, the corresponding WEP key must be set to the printer to allow communications with other network devices.

Ask the network administrator for the WEP key to use.

1. In the IEEE 802.11b menu, press the [▼] or [▲] key to select [Security Type], and then press the [OK] key.



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



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

3. The confirmation message appears. Press [Text].



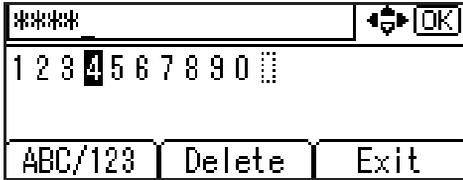
4. Press the [▼] or [▲] key to enter characters, and then press the [OK] key.



- When entering a character, pressing [OK] will mask it with an asterisk for security reasons.
- When using 64-bit WEP, up to 10 hexadecimal characters or five ASCII characters can be entered. When using 128-bit WEP, up to 26 hexadecimal characters or 13 ASCII characters can be used.
- Up to 10 or 26 hexadecimal characters and 5 or 13 ASCII characters can be entered.

- For ASCII character strings, uppercase and lowercase letters are differentiated, so be sure to enter characters in the required case.

5. When all characters have been entered, press [Exit].



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

4

**Reference**

- The WEP key can also be set using a Web browser. For details, see the Web Image Monitor Help.
- For details about printing the configuration page, see “Test Printing”, Quick Installation Guide.

# 5. Paper and Other Media

## Supported Paper for Each Tray

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

### Symbols

In this manual	On the display	Paper feed direction
☐→ (Feed direction)	A4 (210×297) 8 <sup>1</sup> / <sub>2</sub> ×11	Short-edge feed direction
☐→ (Feed direction)	A5 (210×148) 8 <sup>1</sup> / <sub>2</sub> ×5 <sup>1</sup> / <sub>2</sub>	Long-edge feed direction

5

### Note

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

### Tray 1

Each size is specified for the following models.

**220-240V**

A4☐

**120V**

8<sup>1</sup>/<sub>2</sub>×11(Letter)☐

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

#### Automatically selected paper sizes

**220-240V**

Metric version	Imperial version
A3, B4 JIS, A4, B5 JIS, A5, 8 1/2 × 11 (Letter)	8 1/2 × 11 (Letter), A3, B4 JIS, A4, B5 JIS, A5

**120V**

Metric version	Imperial version
A4, B5 JIS, A5, 11 × 17, 8 1/2 × 14 (Legal), 8 1/2 × 11 (Letter), 8 1/2 × 11 (Letter), 7 1/4 × 10 1/2 (Executive)	11 × 17, 8 1/2 × 14 (Legal), 8 1/2 × 11 (Letter), 7 1/4 × 10 1/2 (Executive), A4, B5 JIS, A5

**5**

**Paper sizes requiring manual setting**

The following sizes are supported, but they must be selected using the control panel. See p.99 "Loading paper not automatically detected by this printer". The custom size must be selected using the control panel or the printer driver. See p.101 "Loading custom size paper".

**220-240V**

Metric version	Imperial version
11 × 17, 8 1/2 × 14 (Legal), 8 1/2 × 11 (Letter), 7 1/4 × 10 1/2 (Executive), 8 × 13 (F/GL), 8 1/2 × 13 (Foolscap), 8 1/4 × 13 (Folio), 8K, 16K Custom size: 182 to 297 mm in width, 148 to 432 mm in length	11 × 17, 8 1/2 × 14 (Legal), 8 1/2 × 11 (Letter), 7 1/4 × 10 1/2 (Executive), 8 × 13 (F/GL), 8 1/2 × 13 (Foolscap), 8 1/4 × 13 (Folio), 8K, 16K Custom size: 7.2" to 11.7" in width, 5.9" to 17" in length

**120V**

Metric version	Imperial version
A3, B4 JIS, A4, B5 JIS, 7 1/4 × 10 1/2 (Executive), 8 × 13 (F/GL), 8 1/2 × 13 (Foolscap), 8 1/4 × 13 (Folio), 8K, 16K Custom size: 182 to 297 mm in width, 148 to 432 mm in length	7 1/4 × 10 1/2 (Executive), 8 × 13 (F/GL), 8 1/2 × 13 (Foolscap), 8 1/4 × 13 (Folio), 8K, 16K, A3, B4 JIS, A4, B5 JIS Custom size: 7.2" to 11.7" in width, 5.9" to 17" in length

## 2000-sheet Paper Feed Unit (Tray 3)

**220-240V**

A4

**120V**

8 1/2 × 11 (Letter)

### Note

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

## Bypass Tray

5

### Automatically selected paper sizes

**220-240V**

A3, A4, A5, A6

**120V**

11 × 17, 8 1/2 × 11 (Letter), 5 1/2 × 8 1/2 (Half Letter)

### Paper sizes requiring manual setting

The following sizes are supported, but they must be selected using the control panel. See p.107 "Loading Paper in the Bypass Tray".

The custom size must be selected using the control panel or the printer driver. See p.110 "Loading custom size paper".

**220-240V**

Metric version	Imperial version
B4 JIS, A4, B5 JIS, A5, B6 JIS, 11 × 17, 12 × 18, 8 1/2 × 14 (Legal), 8 1/2 × 11 (Letter), 5 1/2 × 8 1/2 (Half Letter), 7 1/4 × 10 1/2 (Ex-	11 × 17, 12 × 18, 8 1/2 × 14 (Legal), 8 1/2 × 11 (Letter), 5 1/2 × 8 1/2 (Half Letter), 7 1/4 × 10 1/2 (Executive), 8 × 13 (F/GL), 8 1/2 × 13

Metric version	Imperial version
ecutive)☐, 8 × 13 (F/GL)☐, 8 1/2 × 13 (Foolscap)☐, 8 1/4 × 13 (Folio)☐, Com10☐, Monarch☐, C6☐, C5☐, DL Env☐, 8K☐, 16K☐☐ Custom size: 90 to 305 mm in width, 148 to 1260 mm in length	(Foolscap)☐, 8 1/4 × 13 (Folio)☐, Com10☐, Monarch☐, C6☐, C5☐, DL Env☐, 8K☐, 16K☐☐, B4 JIS☐, A4☐, B5 JIS☐☐, A5☐, B6 JIS☐ Custom size: 3.55" to 12" in width, 5.83" to 49.6" in length

**120V**

Metric version	Imperial version
A3☐, B4 JIS☐, A4☐☐, B5 JIS☐☐, A5☐☐, B6 JIS☐, A6☐, 12 × 18☐, 8 1/2 × 14 (Legal)☐, 8 1/2 × 11 (Letter)☐, 7 1/4 × 10 1/2 (Executive)☐☐, 8 × 13 (F/GL)☐, 8 1/2 × 13 (Foolscap)☐, 8 1/4 × 13 (Folio)☐, Com10☐, Monarch☐, C6☐, C5☐, DL Env☐, 8K☐, 16K☐☐ Custom size: 90 to 305 mm in width, 148 to 1260 mm in length	12 × 18☐, 8 1/2 × 14 (Legal)☐, 8 1/2 × 11 (Letter)☐, 7 1/4 × 10 1/2 (Executive)☐☐, 8 × 13 (F/GL)☐, 8 1/2 × 13 (Foolscap)☐, 8 1/4 × 13 (Folio)☐, Com10☐, Monarch☐, C6☐, C5☐, DL Env☐, 8K☐, 16K☐☐, A3☐, B4 JIS☐, A4☐☐, B5 JIS☐☐, A5☐☐, B6 JIS☐, A6☐ Custom size: 3.55" to 12" in width, 5.83 to 49.6" in length

5

**Paper Weight and Capacity**

Tray	Supported paper weight	Supported capacity (Plain paper)
Tray 1	60 to 216 g/m <sup>2</sup> (16 to 57 lb.)	550 sheets (80 g/m <sup>2</sup> , 20 lb.)
Tray 2	60 to 216 g/m <sup>2</sup> (16 to 57 lb.)	550 sheets (80 g/m <sup>2</sup> , 20 lb.)
500-sheet paper feed unit	60 to 216 g/m <sup>2</sup> (16 to 57 lb.)	550 sheets (80 g/m <sup>2</sup> , 20 lb.)
1000-sheet paper feed unit	60 to 216 g/m <sup>2</sup> (16 to 57 lb.)	550 sheets × 2 (80 g/m <sup>2</sup> , 20 lb.)
2000-sheet paper feed unit	60 to 216 g/m <sup>2</sup> (16 to 57 lb.)	1000 sheets × 2 (80 g/m <sup>2</sup> , 20 lb.)
Bypass tray	60 to 256 g/m <sup>2</sup> (16 to 68 lb.)	100 sheets (80 g/m <sup>2</sup> , 20 lb.)

 **Note**

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

# Paper Recommendations

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

## ★ Important

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

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## Loading Paper

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## ★ Important

- Do not use ink-jet printer paper because it may stick to the fusing unit and cause a paper misfeed.
- Do not reuse paper that has already been printed onto by other printers.
- When printing on OHP transparencies that have a print side, load them on the 2000-sheet paper feed unit with the print side up. Not doing so may cause them to stick to the fusing unit and cause misfeeds.

Set paper as follows:

- Tray 1, tray 2: print side facing down
- Bypass tray: print side facing down
- Paper feed unit: print side facing up

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## Storing Paper

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

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

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## Types of Paper and Other Media

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This section describes the types of paper and required settings.

## Plain paper

Paper thickness	<p>60 to 105g/m<sup>2</sup> (16 to 28lb.)</p> <ul style="list-style-type: none"> <li>[Plain Paper]: 60 to 81g/m<sup>2</sup> (16 to 28lb.)</li> <li>[Middle Thick]: 82 to 105g/m<sup>2</sup> (22 to 28lb.)</li> </ul>
Printer setup	<ul style="list-style-type: none"> <li>[Plain Paper]: Select [Paper Input] → [Paper Type: XXX] (XXX: Tray 1 to 5, Bypass Tray) → [Plain Paper].</li> <li>[Middle Thick]: Select [Paper Input] → [Paper Type: XXX] (XXX: Tray 1 to 5, Bypass Tray) → [Middle Thick].</li> </ul>
Printer driver setup	<ul style="list-style-type: none"> <li>[Plain Paper]: Select [Plain] in [Paper Type].</li> <li>[Middle Thick]: Select [Middle Thick] in [Paper Type].</li> </ul>
Supported paper feeding tray	Any input tray can be used.
Paper capacity	<ul style="list-style-type: none"> <li>Tray 1 or tray 2: 550</li> <li>Tray 3: 550 (500/1000-sheet paper feed unit) or 2000 (2000-sheet paper feed unit)</li> <li>Tray 4 or tray 5: 550</li> <li>Bypass tray: 100</li> </ul> <p><b>Note</b></p> <ul style="list-style-type: none"> <li>Make sure paper is not stacked higher than the upper limit mark (▼) inside the tray. When using the bypass tray, make sure paper is not stacked higher than the paper guides inside it.</li> </ul>
Duplex printing	Supported
Additional cautions	When printing on the reverse side of plain paper that is already printed on, select [Paper Type:] [XXX] (XXX: Tray 1 to 5, Bypass Tray) → [Plain:Dup.Back] using control panel or printer driver.

## Thick paper

Paper thickness	<p>106 to 253 g/m<sup>2</sup></p> <ul style="list-style-type: none"> <li>[Thick Paper 1]: 106 to 169 g/m<sup>2</sup> (28 to 45 lb.)</li> <li>[Thick Paper 2]: 170 to 219 g/m<sup>2</sup> (45 to 58 lb.)</li> <li>[Thick Paper 3]: 220 to 253 g/m<sup>2</sup> (59 to 67 lb.)</li> </ul>
Printer setup	<p>Select [Paper Input] → [Paper Type: XXX] (XXX: Tray 1 to 5, Bypass Tray) → [Thick Paper 1] to [Thick Paper 3].</p>
Printer driver setup	<p>Select [Thick Paper 1] to [Thick Paper 3] in [Paper Type].</p>
Supported paper feeding tray	<ul style="list-style-type: none"> <li>[Thick Paper 1] [Thick Paper 2]: any input tray can be used.</li> <li>[Thick Paper 3]: the bypass tray can be used.</li> </ul> <p><b>Note</b></p> <ul style="list-style-type: none"> <li>Make sure paper is not stacked higher than the upper limit mark (▼) inside the tray. When using the bypass tray, make sure paper is not stacked higher than the paper guides inside it.</li> </ul>
Duplex printing	<ul style="list-style-type: none"> <li>[Thick Paper 1]: supported</li> <li>[Thick Paper 2] [Thick Paper 3]: not supported</li> </ul>
Additional cautions	<ul style="list-style-type: none"> <li>Print speed is slightly slower than when using plain paper.</li> <li>When printing on the reverse side of thick paper that is already printed on, select [Paper Type: XXX] (XXX: Tray 1 to 5, Bypass Tray) → [Thick 1:Dup.Back] or [Thick 2:Dup.Back] using control panel or printer driver.</li> </ul>

## Thin paper

Paper thickness	52 to 59 g/m <sup>2</sup> (14 to 16 lb.)
Printer setup	Select [Paper Input] → [Paper Type: XXX] (XXX: Tray 1 to 5, Bypass Tray) → [Thin Paper].
Printer driver setup	Select [Thin Paper] in [Paper Type].
Supported paper feeding tray	<p>Any input tray can be used.</p> <p><b>Note</b></p> <ul style="list-style-type: none"> <li>Make sure paper is not stacked higher than the upper limit mark (▼) inside the tray. When using the bypass tray, make sure paper is not stacked higher than the paper guides inside it.</li> </ul>
Duplex printing	Not supported

5

## OHP transparencies

Printer setup	Select [Paper Input] → [Paper Type: Bypass Tray] → [OHP transparencies].
Printer driver setup	Select [OHP transparencies] in [Paper Type].
Supported paper feeding tray	Bypass tray
Paper capacity	50
Duplex printing	Not supported
Additional cautions	<ul style="list-style-type: none"> <li>When loading OHP transparencies, take care not to load them upside down. Doing so may cause a malfunction.</li> <li>Make sure to fan OHP transparencies every time before printing. Leaving OHP transparencies loaded in the paper tray may cause them to stick together and result in a paper misfeed.</li> <li>If multiple OHP transparencies are fed at the same time, load them one by one.</li> </ul>

	<ul style="list-style-type: none"> <li>When printing on OHP transparencies, remove the transparencies one by one as they are output.</li> </ul>
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## Letterhead

Printer setup	Select [Paper Input] → [Paper Type: XXX] (XXX: Tray 1 to 5, Bypass Tray) → [Letterhead].
Printer driver setup	Select [Letterhead] in [Paper Type].
Supported paper feeding tray	<p>Any input tray can be used.</p> <p><b>Note</b></p> <ul style="list-style-type: none"> <li>Make sure paper is not stacked higher than the upper limit mark (▼) inside the tray. When using the bypass tray, make sure paper is not stacked higher than the paper guides inside it.</li> </ul>
Duplex printing	Supported
Letterhead setup	<p>Default: [Letterhead 1]</p> <p>If the print quality needs to be improved, select [Maintenance] → [General Settings] → [Letterhead Setting] → [Letterhead 1] to [Letterhead 3] to change the setting value to a different number depending on the paper thickness that you are using. High numbered settings allow thicker paper to be used, but are printed more slowly.</p>
Additional cautions	<p><b>Paper tray:</b> when loading paper vertically, make sure to set its header to the back, and when horizontally, make sure to set its header to the left.</p> <p><b>Bypass tray:</b> when loading paper vertically, make sure to set its header to the back, and when horizontally, make sure to set its header to the right.</p>

## Label paper

Printer setup	Select [Paper Input] → [Paper Type: Bypass Tray] → [Label Paper].
Printer driver setup	Select [Label Paper] in [PaperType].
Supported paper feeding tray	<p>Bypass tray</p> <p><b>Note</b></p> <ul style="list-style-type: none"> <li>Make sure paper is not stacked higher than the paper guides inside the bypass tray.</li> </ul>
Duplex printing	Not supported
Label paper setup	<p>Default: [Labels 1]</p> <p>If the print quality needs to be improved, select [Maintenance] → [General Settings] → [Label Paper Setting] → [Labels 1] to [Labels 3] to change the setting value to a different number depending on the paper thickness that you are using. High numbered settings allow thicker paper to be used, but are printed more slowly.</p>
Additional cautions	<ul style="list-style-type: none"> <li>Print speed is slightly slower than when using plain paper.</li> <li>Shuffle paper before loading the stack onto the tray, so multiple sheets are not fed in together.</li> </ul>

5

## Glossy paper

Printer setup	Select [Paper Input] → [Paper Type: XXX] (XXX: Tray 1 to 5, Bypass Tray) → [Glossy Paper].
Printer driver setup	Select [Glossy Paper] in [Paper Type].
Supported paper feeding tray	<p>Any input tray can be used.</p> <p><b>Note</b></p> <ul style="list-style-type: none"> <li>Make sure paper is not stacked higher than the upper limit mark (▼) inside the tray. When using the bypass tray, make sure paper is not</li> </ul>

	stacked higher than the paper guides inside it.
Duplex printing	Supported
Glossy paper setup	<p>Default: [Glossy Paper 1]</p> <p>If the print quality needs to be improved, select [Maintenance] → [General Settings] → [Glossy Paper Setting] → [Glossy Paper 1] or [Glossy Paper 2] to change the setting value to a different number depending on the paper thickness that you are using. High numbered settings allow thicker paper to be used, but are printed more slowly.</p>
Additional cautions	<ul style="list-style-type: none"> <li>• Print speed is slightly slower than when using plain paper.</li> </ul>

### Coated paper

Printer setup	Select [Paper Input] → [Paper Type: XXX] (XXX: Tray 1 to 5, Bypass Tray) → [Coated Paper].
Printer driver setup	Select [Coated Paper] in [Paper type].
Supported paper feeding tray	<p>Any input tray can be used.</p> <p><b>Note</b></p> <ul style="list-style-type: none"> <li>• Make sure paper is not stacked higher than the upper limit mark (▼) inside the tray. When using the bypass tray, make sure paper is not stacked higher than the paper guides inside it.</li> </ul>
Duplex printing	Not supported
Coated paper setup	<p>Default: [Coated Paper 1]</p> <p>If the print quality needs to be improved, select [Maintenance] → [General Settings] → [Coated Paper Setting] → [Coated Paper 1] to [Coated Paper 7].</p> <p>When selecting the paper setting depending on the thickness, select [Coated Paper 1] to [Coated Pa-</p>

	<p>per 4]. High numbered settings allow thicker paper to be used, but are printed more slowly.</p> <p>When selecting the paper setting depending on the type, select [Coated Paper 5] to [Coated Paper 7]. High numbered settings allow thicker paper to be used, but are printed more slowly.</p>
Additional cautions	<ul style="list-style-type: none"> <li>• Print speed is slightly slower than when using plain paper.</li> </ul>

## Special paper

Special paper standard	When you cannot print successfully with other paper type settings, set special paper.
Printer setup	Select [Paper Input] → [Paper Type: XXX] (XXX: Tray 1 to 5, Bypass Tray) → [Special Paper 1] to [Special Paper 3].
Printer driver setup	Select [Special Paper 1] to [Special Paper 3] in [Paper Type].
Supported paper feeding tray	<p>Any input tray can be used.</p> <p><b>Note</b></p> <ul style="list-style-type: none"> <li>• Make sure paper is not stacked higher than the upper limit mark (▼) inside the tray. When using the bypass tray, make sure paper is not stacked higher than the paper guides inside it.</li> </ul>
Duplex printing	Supported

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## Envelopes

Printer setup	Select [Paper Input] → [Paper Type: Bypass Tray] → [Envelope].
Printer driver setup	Select [Envelope Settings] in [Paper Type].
Supported paper feeding tray	Bypass tray

	<p><b>Note</b></p> <ul style="list-style-type: none"> <li>• Make sure paper is not stacked higher than the paper guides inside the bypass tray.</li> </ul>
Duplex printing	Not supported
Envelope setup	<p>Default: [Envelope 1]</p> <p>If the print quality needs to be improved, select a paper type that is appropriate for the thickness of the envelope you are using. Select [Maintenance] → [General Settings] → [Envelope Setting] → [Envelope 1] to [Envelope 3].</p> <p>High numbered settings allow thicker paper to be used, but are printed more slowly.</p>
Additional cautions	<ul style="list-style-type: none"> <li>• Load envelopes with the print side down, and the open end of the envelope facing out from the printer.</li> <li>• When printing on envelopes, set the envelope size using the printer driver or control panel. See p.110 "Loading custom size paper" for details.</li> <li>• Before loading envelopes, remove any air inside and make sure all edges are sharply creased. If envelopes are curled, straighten them before loading.</li> <li>• If envelopes are curled when they are output, straighten them by rubbing.</li> <li>• Depending on the printing environment, envelopes may be output with the edges wrinkled, with toner marks on the back, or blurred. In addition, when printing solid black areas, streaks may appear where two envelopes touch.</li> <li>• Depending on the type of envelope or printing environment, envelopes might be output creased or printed improperly. In such cases, try changing the loading orientation.</li> </ul>

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## Paper Not Supported by This Printer

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### ★ Important

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

Misprints are especially likely when using paper printed on by printers other than a laser printer (e.g. monochrome and color copiers, ink-jet printers, etc.) Refrain from printing on the side on which nothing is printed.

- Surface-processed paper (excluding specified paper)
- Special paper, such as thermal paper and carbon paper
- Paper whose weight is heavier or lighter than the limitation
- Perforated paper
- Adhesive label paper on which glue or base paper is exposed
- Paper with clips or staples

### ↓ Note

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

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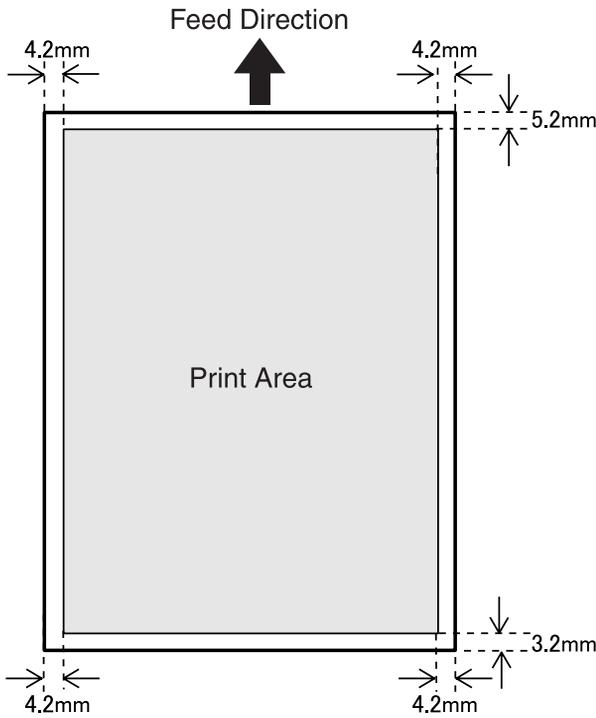
## Print Area

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

The following diagram shows the print area for this printer.

## Paper



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### Note

- While printing may be possible on the entire page depending on the settings of the printer driver or print conditions, the quality cannot be guaranteed for the 5.2 mm (0.21 inches) margin of the upper side, the 4.2 mm (0.17 inches) margins of the right and left sides, and the 3.2 mm (0.13 inches) margin of the lower side.
- The print area of long paper is restricted to 1260 mm (49.7 inches) long in the feed direction.

# Loading Paper

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

## Loading Paper into the Paper Tray, 500/1000-sheet Paper Feed Unit

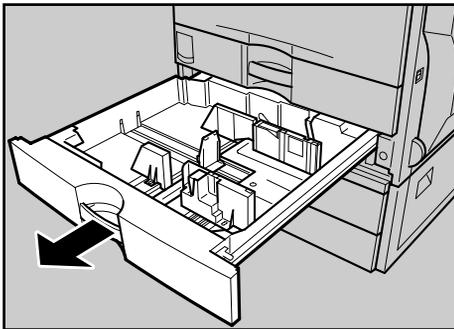
The following example explains how to load paper into paper trays, and how to change paper size.

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

### ★ Important

- Make sure paper is not stacked higher than the upper limit mark inside the paper tray. Paper misfeeds might occur.
- Do not mix different types of paper in the same paper tray.
- During printing, do not open or close the printer covers or bypass tray, or pull out or push in the paper tray.
- The default of tray 1 is as follows:
  - 220-240V: A4
  - 120V: 8<sup>1</sup>/<sub>2</sub> × 11 (Letter)

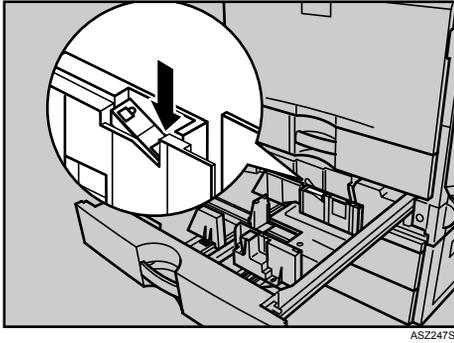
1. Carefully pull out the paper tray until it stops.



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

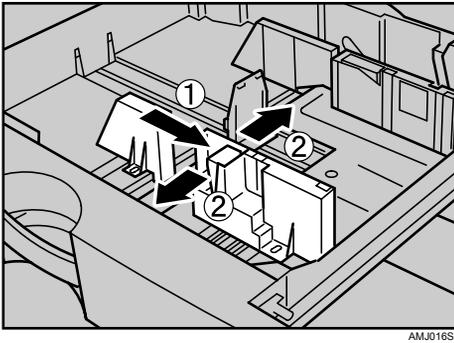
**2. Unlock the side guides.**



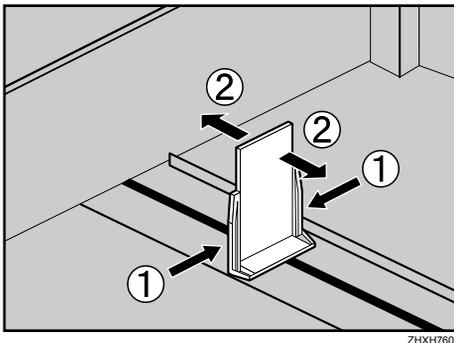
You do not need to adjust the side guides when loading paper into tray 1.

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

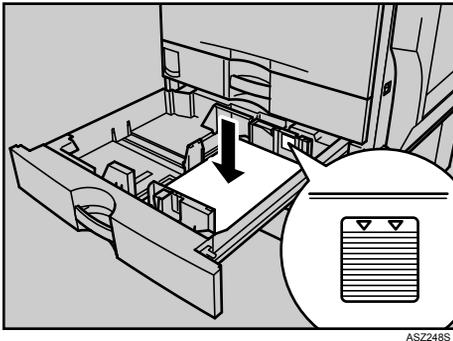
5



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

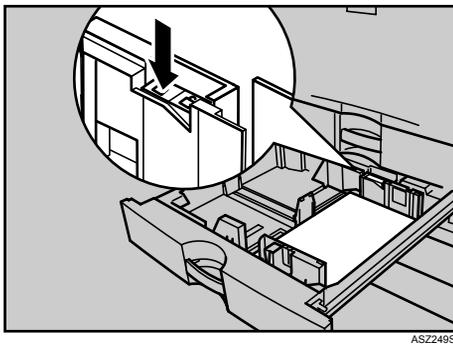


### 5. Load the new paper stack print side up.



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

### 6. Lock the side guides.



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

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

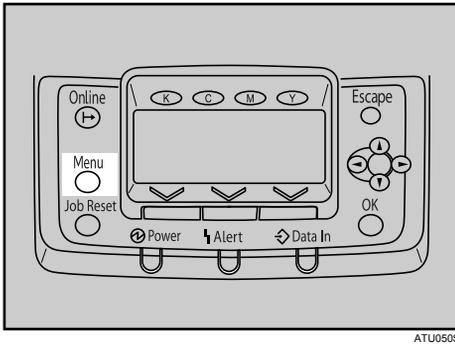
#### Reference

- For details about types of paper supported by this printer, see p.81 "Supported Paper for Each Tray".

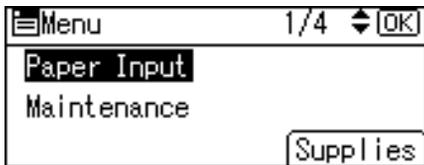
### Loading paper not automatically detected by this printer

Set the paper size on the control panel to load paper whose size cannot be detected automatically into trays 2 to 5.

1. Press the [Menu] key.



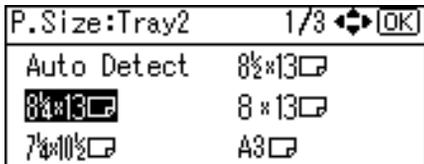
2. Press the [▼] or [▲] key to select [Paper Input], and then press the [OK] key.



3. Press the [▼] or [▲] key to select [Paper Size: Tray 2], and then press the [OK] key.



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



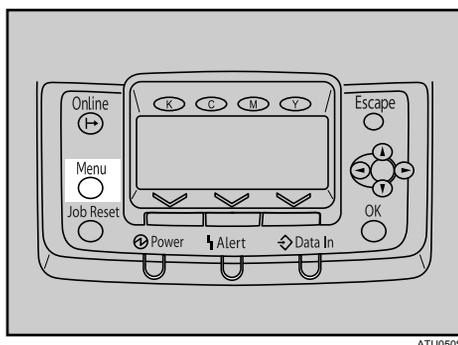
About two seconds later, the display returns to the Paper Input screen.

5. Press the [Online] key.

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

If you have specified the paper size using the control panel, and want to return the settings to [Auto Detect], load paper into the paper tray, and follow this procedure.

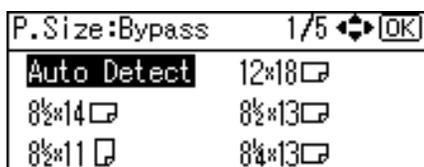
6. Press the [Menu] key.



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

8. Press the [▼] or [▲] key to select [Paper Size: Tray 2], and then press the [OK] key.

9. Select [Auto Detect] using the scroll keys, and then press the [OK] key.



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

10. Press the [Online] key.

The display returns to the initial screen.

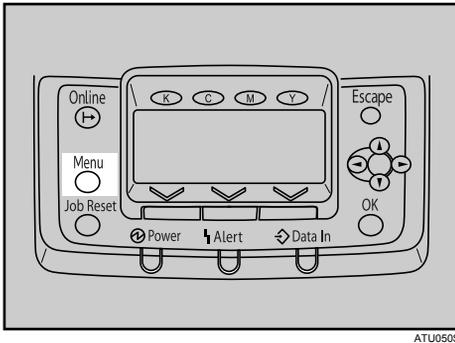
## Loading custom size paper

This section describes how to load custom size paper into trays 2 to 5.

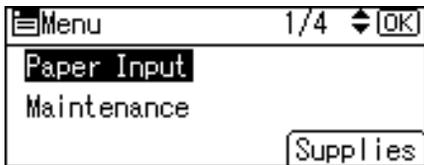
### ★ Important

- When printing on custom size paper, specify the paper size using the control panel or printer driver.
- The custom size paper selected using the printer driver overrides that selected using the control panel. Do not configure settings using the control panel if you have already configured settings using the printer driver. However, when printing with a printer driver other than the RPCS printer driver, you must configure the settings using the control panel.
- The following is the range of paper sizes that can be loaded in each type of tray:
  - Paper tray: 182 to 297 mm (7.17 to 11.69 inches) in width and 148 to 432 mm (5.83 to 17 inches) in length.
- The printer cannot print to custom paper from applications that do not support custom size paper.

1. Press the [Menu] key.



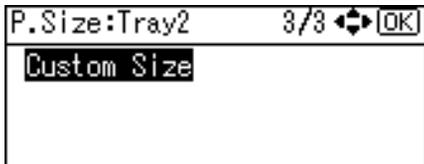
2. Press the [▼] or [▲] key to select [Paper Input], and then press the [OK] key.



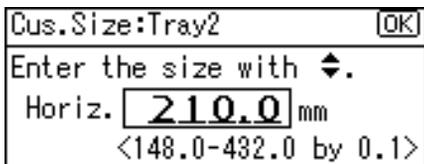
3. Press the [▼] or [▲] key to select [Paper Size: Tray 2], and then press the [OK] key.



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

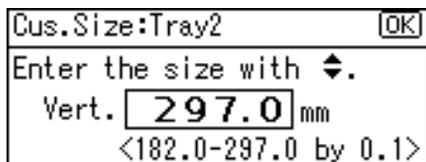


5. Press the [▼] or [▲] key to enter the horizontal value, and then press the [OK] key.



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

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



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

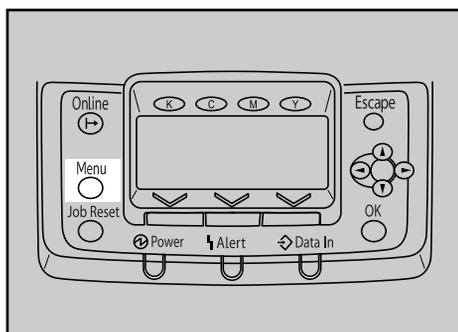
The settings appear and about two seconds later, the display returns to the Paper Input screen.

7. Press the [Online] key.

The display returns to the initial screen.

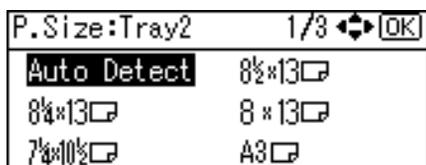
If you want to return the settings to [Auto Detect] after printing with the custom paper size, load paper into the paper tray, and follow this procedure.

8. Press the [Menu] key.



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



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

12. Press the [Online] key.

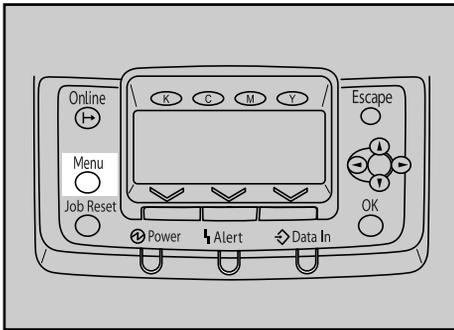
The display returns to the initial screen.

## Specifying a paper type

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

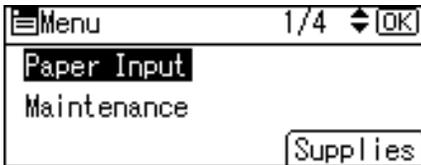
- Plain Paper, Recycled Paper, Special Paper 1, Special Paper 2, Special Paper 3, Color Paper, Letterhead, Preprinted Paper, Bond Paper, Cardstock, Thick Paper 1, Thick Paper 2, Thin Paper, Middle Thick Paper, Thick 1: Dup.Back (reverse side of thick paper), Thick 2: Dup.Back (reverse side of thick paper), Coated Paper, Glossy Paper

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



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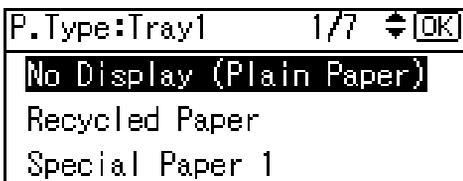
### 2. Press the [▼] or [▲] key to select [Paper Input], and then press the [OK] key.



### 3. Press the [▼] or [▲] key to select [Paper Type: Tray 2], and then press the [OK] key.



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



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

## 5. Press the [Online] key.

The display returns to the initial screen.

### ↓ Note

- Duplex printing is not supported for the following paper types:
  - Cardstock, Thick Paper 2, Thin Paper, Thick1: Dup.Back, Thick2: Dup.Back, Coated Paper

## Loading Paper into the 2000-sheet Paper Feed Unit

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

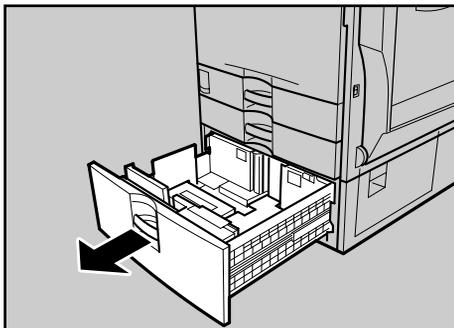
### ★ Important

- Make sure paper is not stacked higher than the upper limit mark inside the paper tray. Paper misfeeds might occur.
- Do not mix different types of paper in the same paper tray.
- During printing, do not open or close the printer covers, bypass tray, or paper tray.
- Make sure to align paper and push it neatly to both sides of the tray. If you do not, it can cause a paper misfeed.
- The default paper size of the 2000-sheet paper feed unit is as follows:
  - : A4
  - : 8 1/2 × 11 (Letter)

### ↓ Note

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

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

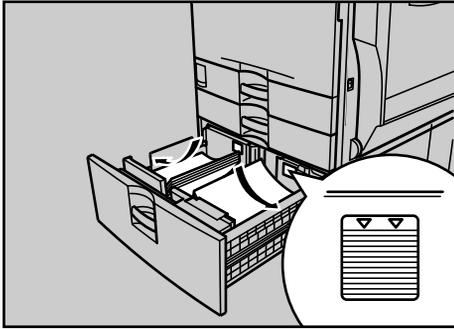


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When printing using the bypass tray, do not pull out the paper tray.

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

You can load up to 1000 sheets in each side.



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

**Reference**

- For details about types of paper supported by this printer, see p.81 "Supported Paper for Each Tray".

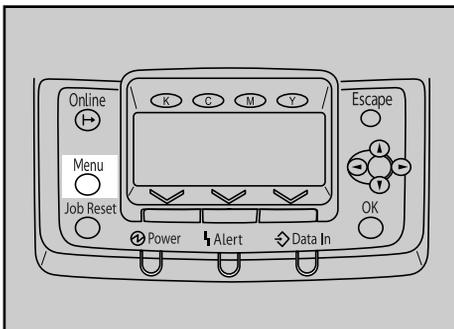
5

### Specifying a paper type

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

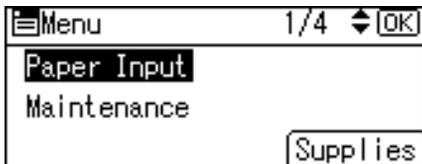
- Plain Paper, Recycled Paper, Special Paper 1, Special Paper 2, Special Paper 3, Color Paper, Letterhead, Preprinted Paper, Bond Paper, Cardstock, Thick Paper 1, Thick Paper 2, Thin Paper, Middle Thick Paper, Thick 1: Dup.Back (reverse side of thick paper), Thick 2: Dup.Back (reverse side of thick paper), Coated Paper, Glossy Paper

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



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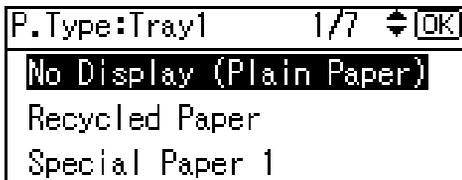
2. Press the [▼] or [▲] key to select [Paper Input], and then press the [OK] key.



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



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



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

5. Press the [Online] key.

The display returns to the initial screen.

#### ↓ Note

- Duplex printing is not supported for the following paper types:
  - Cardstock, Thick Paper 2, Thin Paper, Thick1: Dup.Back, Thick2: Dup.Back, Coated Paper

## Loading Paper in the Bypass Tray

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

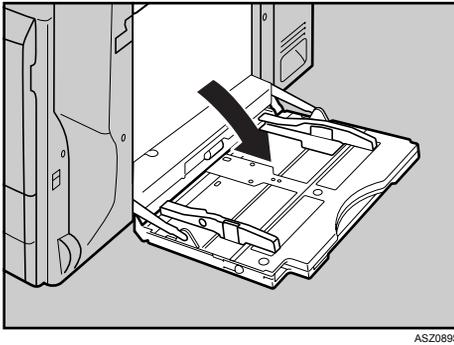
### Loading standard size paper

#### ★ Important

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

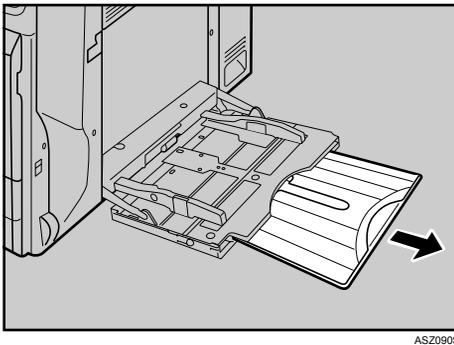
- The bypass tray does not support duplex printing.
- When setting long paper to the bypass tray, support it with your hand to ensure it is fed properly.
- Paper feeding process or image quality varies depending on the paper thickness or width.
- Check the print in advance using the same type of paper.

1. Open the bypass tray.

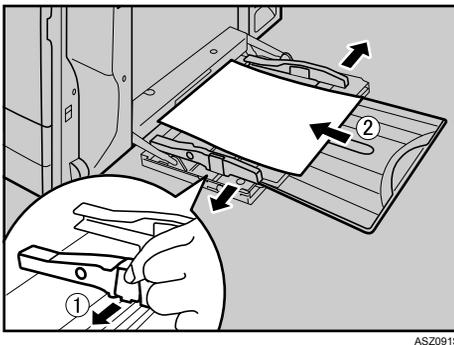


5

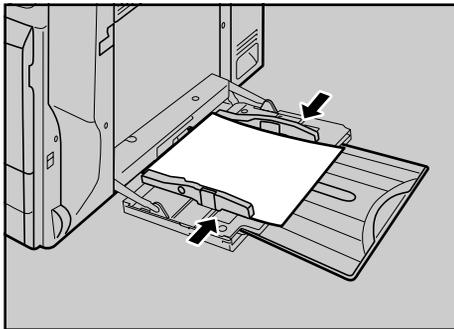
2. If you load paper longer than A4, pull out the bypass tray extension.



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

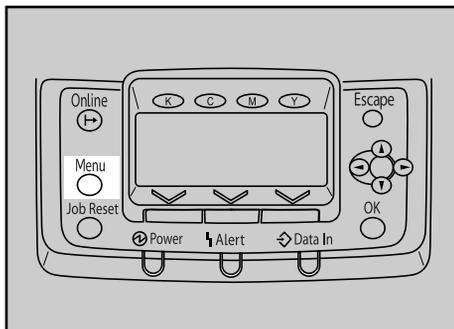


- Adjust the side guides to fit the paper width.



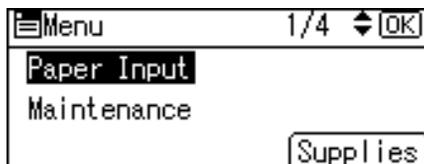
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- Press the [Menu] key.

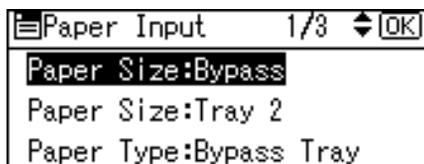


ATU050S

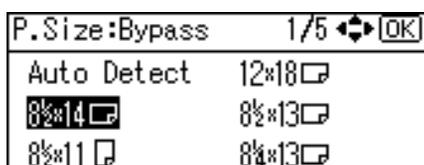
- Press the [▼] or [▲] key to select [Paper Input], and then press the [OK] key.



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



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



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

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

The display returns to the initial screen.

**Note**

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

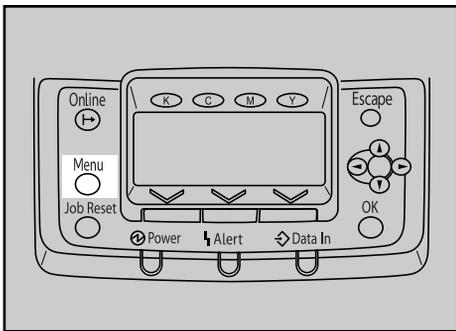
**Loading custom size paper**

**Important**

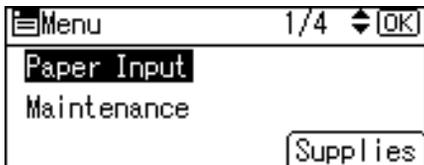
- When printing on custom size paper, specify the paper size using the control panel or printer driver.
- The custom size paper selected using the printer driver overrides that selected using the control panel. Do not configure settings using the control panel if you have already configured settings using the printer driver. However, when printing with a printer driver other than the RPCS printer driver, you must configure the settings using the control panel.
- The printer cannot print to custom size paper from applications that do not support custom size paper.

5

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



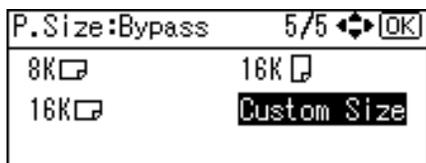
**2. Press the [▼] or [▲] key to select [Paper Input], and then press the [OK] key.**



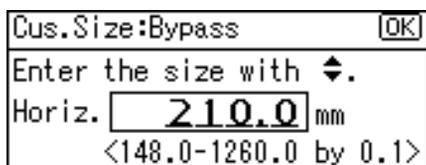
3. Press the [▼] or [▲] key to select [Paper Size: Bypass,] and then press the [OK] key.



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

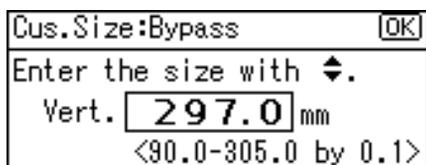


5. Press the [▼] or [▲] key to enter the horizontal value, and then press the [OK] key.



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

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



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

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

7. Press the [Online] key.

The display returns to the initial screen.

## Specifying a paper type

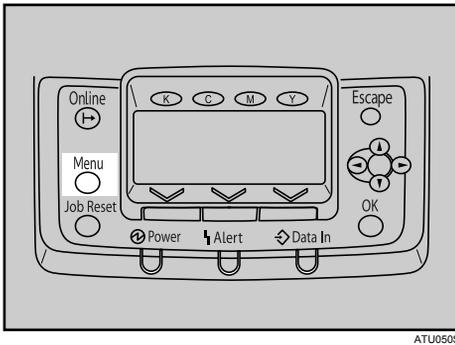
This section describes how to specify a paper type. You can improve printer performance by selecting the optimum paper type for the tray. You can select from the following paper types:

- Plain Paper, Recycled Paper, Special Paper 1, Special Paper 2, Special Paper 3, Color Paper, Letterhead, Preprinted Paper, Label Paper, Bond Paper, Cardstock, OHP (Transparency), Envelope, Thick Paper 1, Thick Paper 2, Thick Paper 3, Thin Paper, Middle Thick Paper, Thick 1: Dup.Back (reverse side of thick paper), Thick 2: Dup.Back (reverse side of thick paper), Thick 3: Dup.Back (reverse side of thick paper), Coated Paper, Glossy Paper

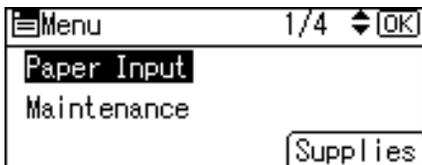
### ★ Important

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

1. Press the [Menu] key.



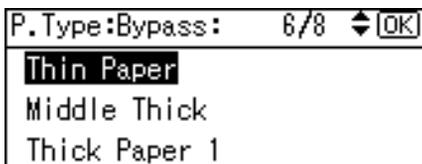
2. Press the [▼] or [▲] key to select [Paper Input], and then press the [OK] key.



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



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



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

5. Press the [Online] key.

The display returns to the initial screen.

# 6. Replacing Consumables

## Replacing Toner

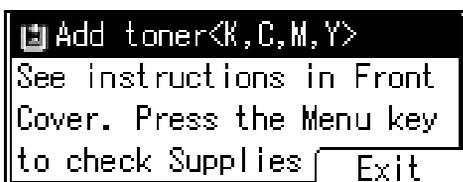
### ⚠ WARNING

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

### ⚠ CAUTION

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

Replace the toner if any of the following messages appear on the display:



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

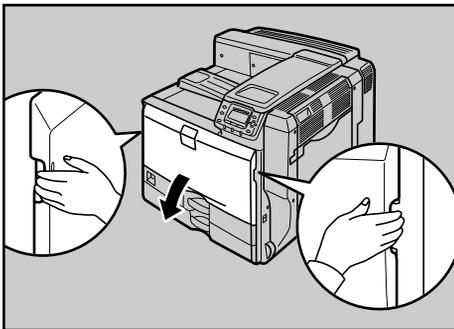


" Out of toner." " Toner is almost empty." In both messages, a combination of one to four colors, (yellow, magenta, cyan, black) is shown to indicate the relevant toner.

**★ Important**

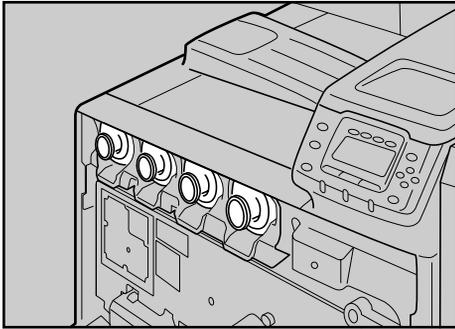
- When removing toner, be careful not to drop it.
- Do not forcefully push toner in.
- When handling toner containers, never stand them up on either end or position them upside down.
- Store toner in a cool dark place.
- Toner is a consumable and not covered by warranty. If there is a problem, contact the store where it was purchased.
- If cyan, magenta, or yellow toner runs out, you can print in black and white using black toner. Change the color mode setting to Black and White using the printer driver.
- If black toner runs out, you cannot print in black and white or color until the black toner is replaced.

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



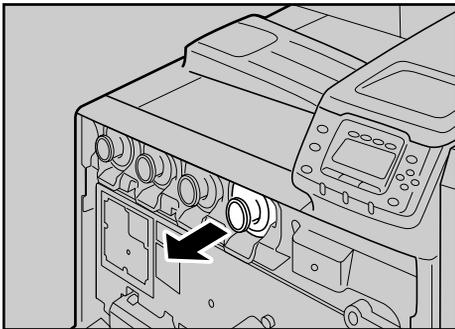
ASZ056S

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



ASZ057S

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



ASZ058S

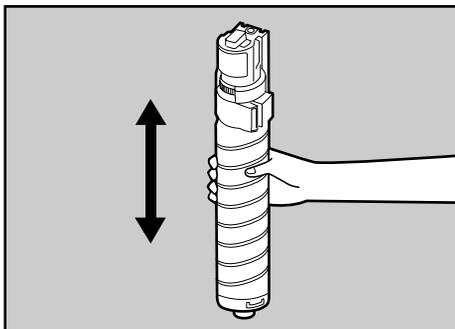
Do not shake the removed toner. Any remaining toner may leak.

Pull the toner out slowly and carefully to prevent leakage.

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

**3. Take the new toner out of the box.**

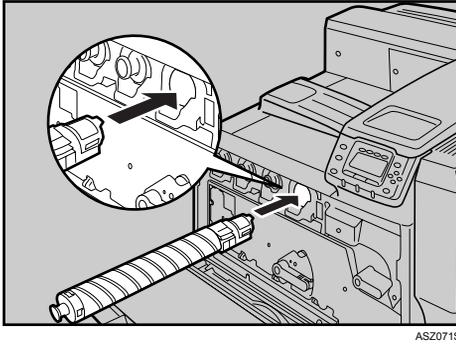
**4. Shake the toner up and down five or six times.**



ASZ059S

Even distribution of toner within the container improves print quality.

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



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

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

Wait until [🖨️ Loading toner] disappears from the display.

# Replacing the Photo Conductor Unit

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



When the following messages appear on the display, the photo conductor unit should be replaced soon. Prepare a new photo conductor unit.



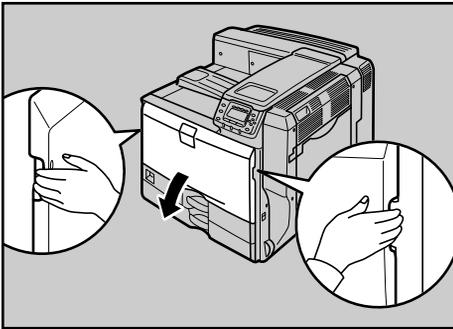
## ★ Important

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

The following is the replacement procedure for the yellow photo conductor unit located in the left end. The same procedure applies to replacement of other photo conductor units.

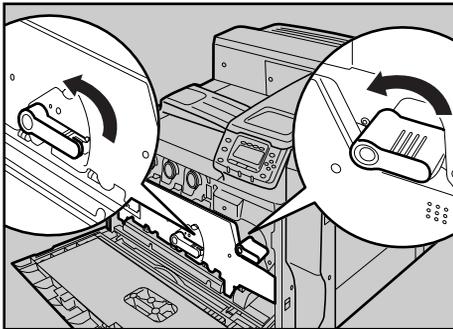
1. Turn off the printer and unplug the power cable.

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



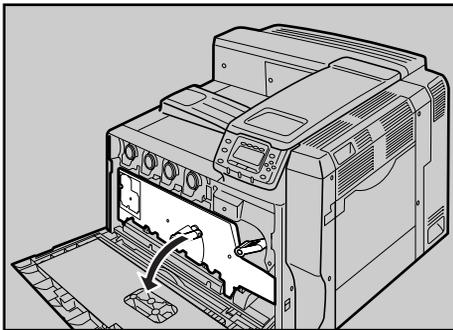
ASZ056S

3. Turn the two green levers counterclockwise.



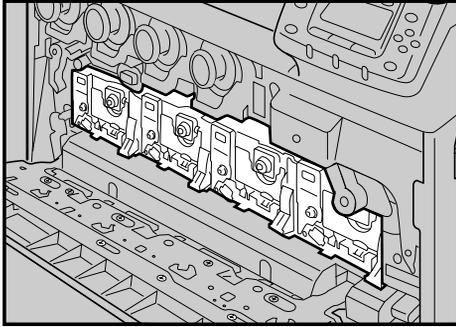
ASZ252S

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



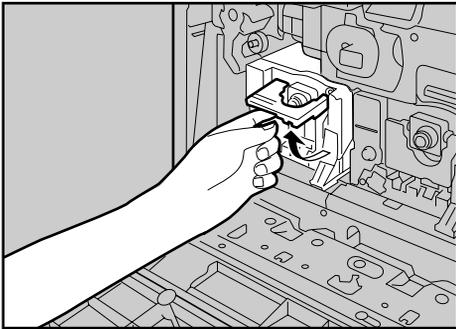
ASZ295S

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



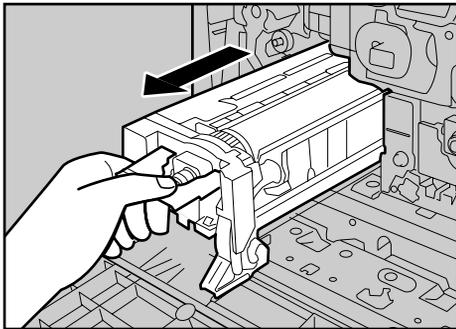
ASZ259S

5. Pull out the ring pull handle of the photo conductor unit.



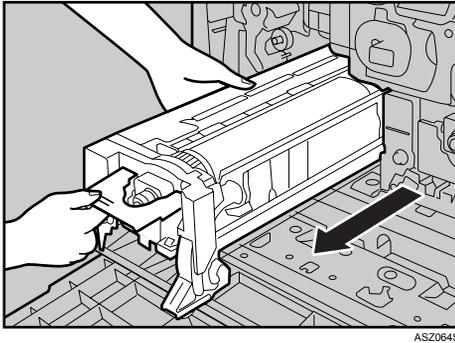
ASZ062S

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

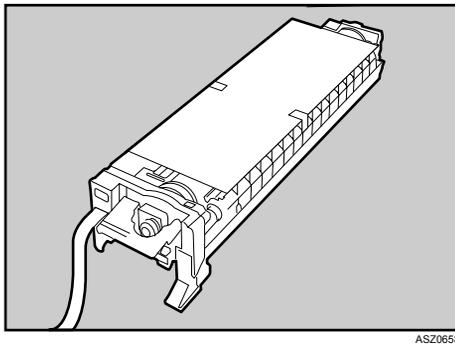


ASZ063S

7. Holding the green grip on the left and the handle on the front, pull out the photo conductor unit.



8. Take the new photo conductor unit out of the box.

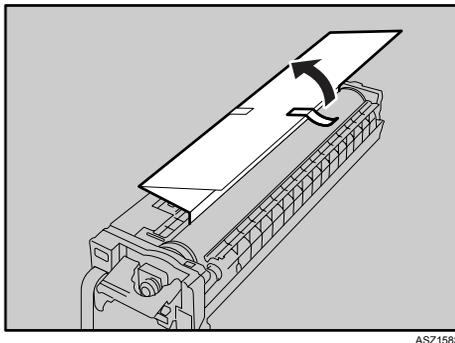


For black, install one photo conductor unit; for color, install all three together.

Exposure to light reduces photo conductor unit performance. Replace the unit as quickly as possible.

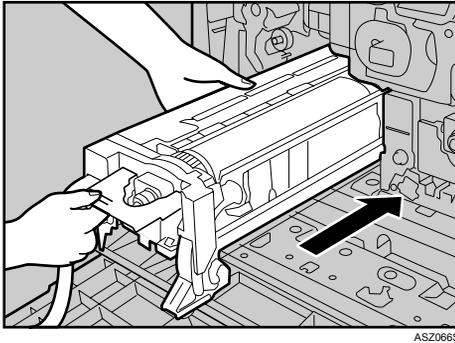
9. Remove the protecting cover. Do not remove the tape hanging from the front yet.

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

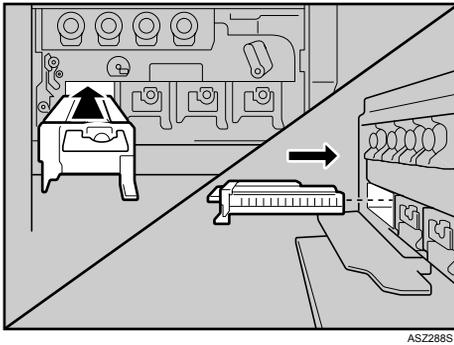


When holding the photo conductor unit, hold the green grip on the left and the handle on the front together. Do not move the photo conductor unit by only holding the grip. Doing so may damage the grip.

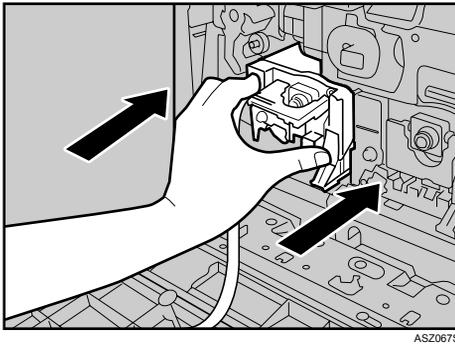
10. Holding the green grip on the left and the handle on the front, carefully insert the front end into the space horizontally.



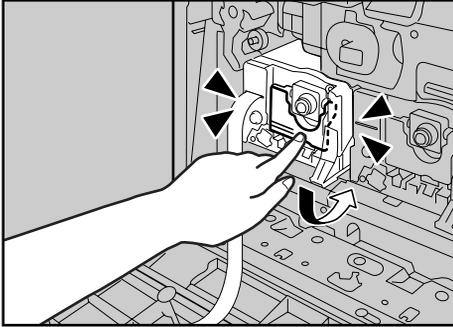
Insert it horizontally as shown below.



11. Pushing the front of the photo conductor unit, fully insert it into the printer.

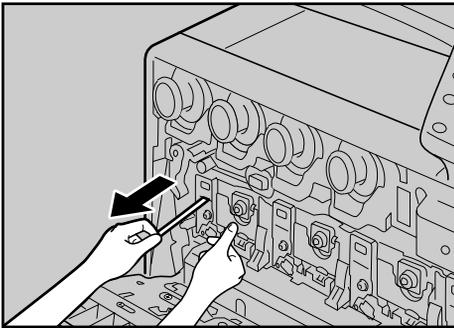


12. Lower the handle located on the front of the photo conductor unit, and push it until it clicks into place.



ASZ068S

13. Holding the photo conductor unit firmly in place, pull out the tape.



ASZ094S

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

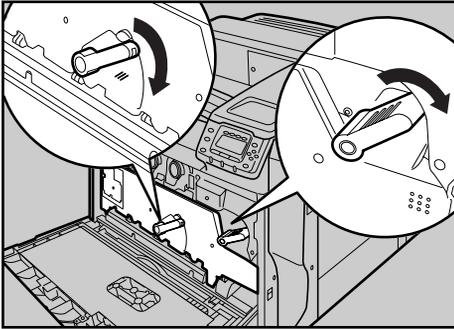
14. When replacing a color photo conductor unit, replace the other two color units together using the same procedure, before closing the inner cover.

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



ATU100S

16. Turn the two green levers clockwise to lock the cover.



ASZ296S

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

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

# Replacing the Intermediate Transfer Unit and Dustproof Filter

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



Replace the dustproof filter together.

## 6

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### Replacing the Intermediate Transfer Unit

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#### CAUTION

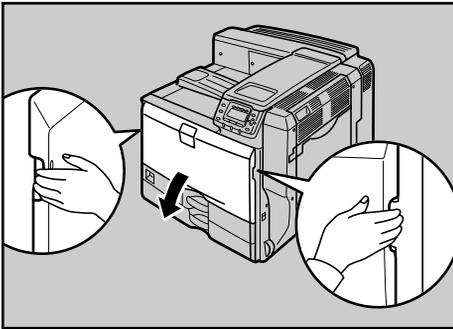
- The inside of this printer becomes very hot. Do not touch parts labeled "△" (indicating a hot surface). Touching these parts will result in burns.

#### Important

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

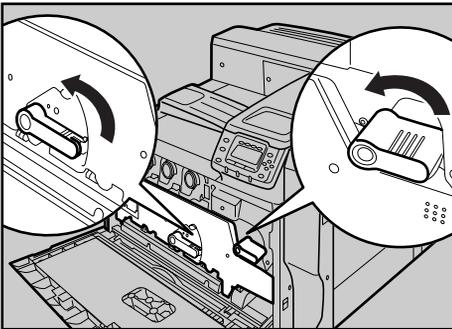
1. Turn off the printer and unplug the power cable.

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



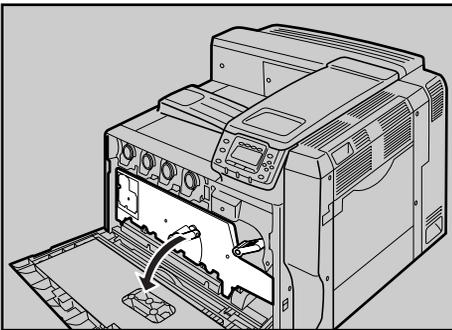
ASZ056S

3. Turn the two green levers counterclockwise.



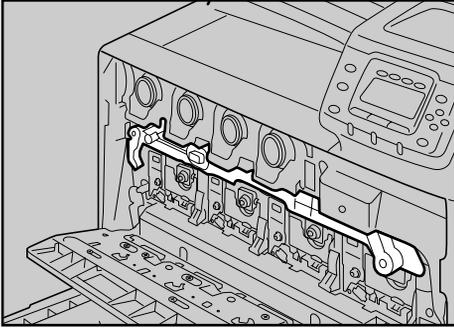
ASZ252S

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



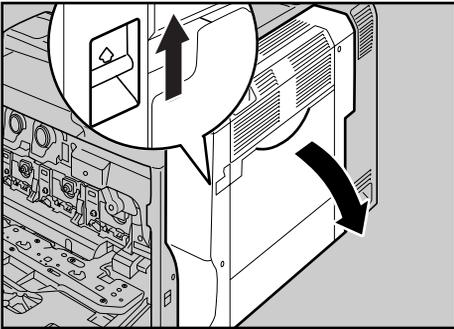
ASZ295S

The intermediate transfer unit is installed as shown below.



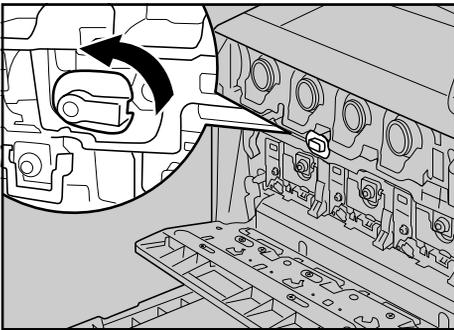
ATU069S

- 5. Push up the lever on the right side, and open the printer's right cover carefully.**  
Opening the right cover is necessary for transfer unit replacement.



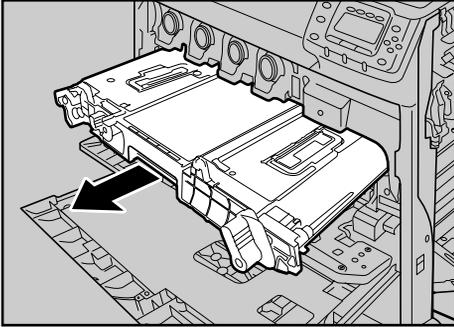
ATU060S

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



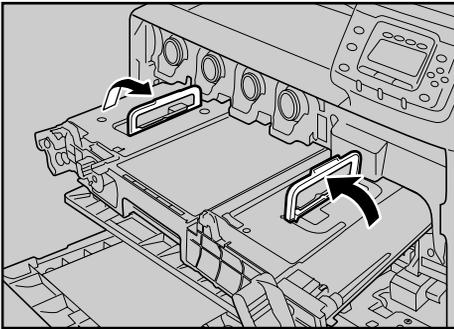
ATU061S

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



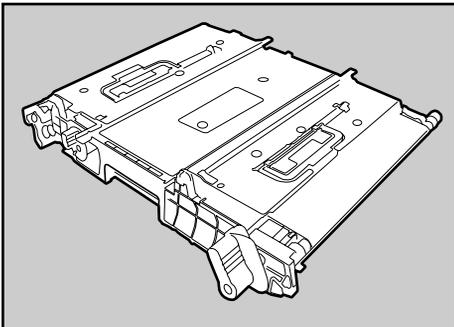
ATU062S

8. Lift the handles on the top surface.



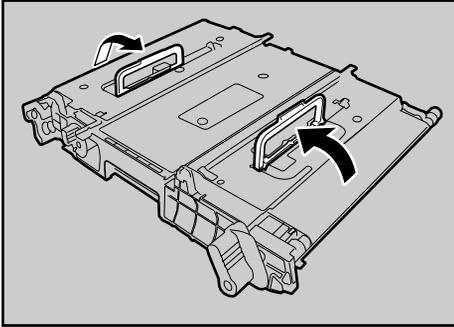
ATU063S

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



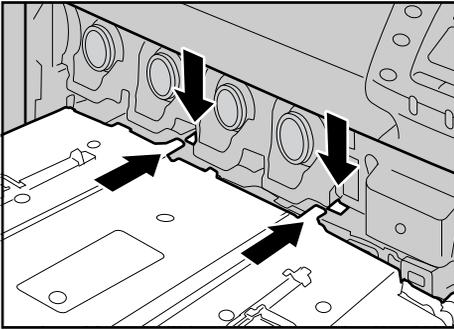
ATU064S

11. Lift the handles on the top surface.



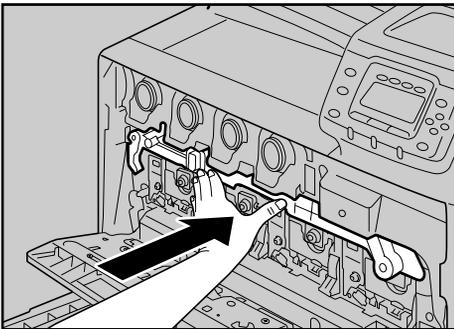
ATU066S

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



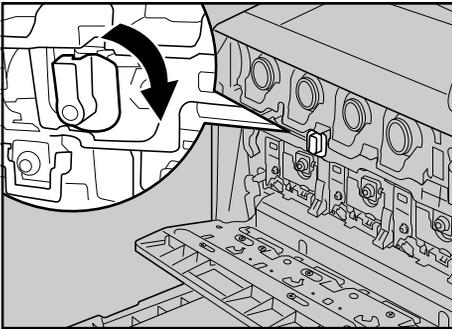
ATU066S

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



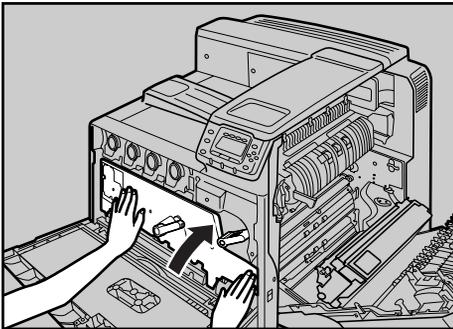
ATU066S

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



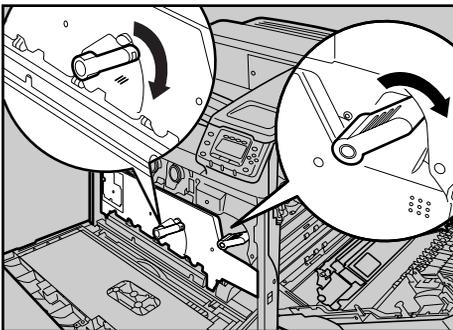
ATU069S

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



ATU092S

16. Turn the green levers clockwise.



ATU095S

17. Carefully close the right cover.

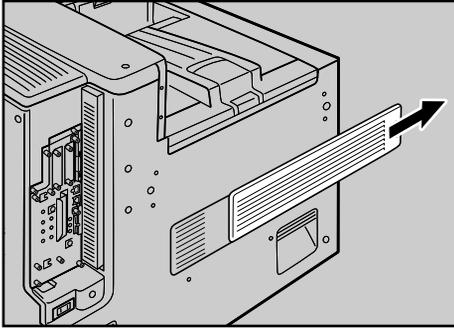
18. Carefully close the front cover.

**Note**

- This completes intermediate transfer unit replacement. Now go to the next procedure and replace the dustproof filter.

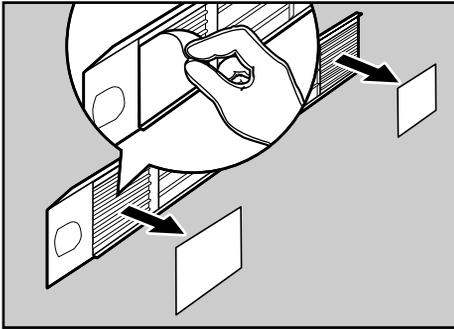
## Replacing the Dustproof Filter

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



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

6

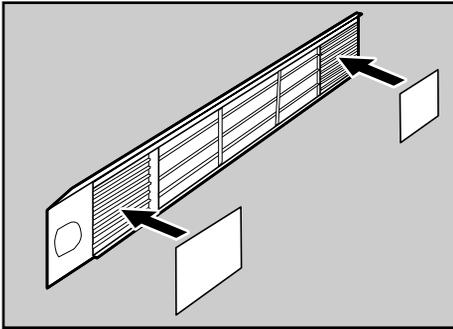


Handle the removed filters with care. Waving the filters will release toner.

5. Remove the glove.

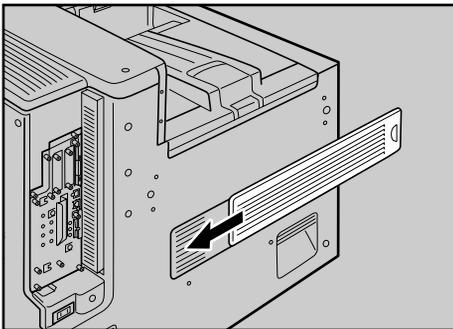
Put the glove into the intermediate transfer unit's box.

**6. Attach the new filters.**



ATU072S

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



ATU073S

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

## Replacing the Waste Toner Bottle

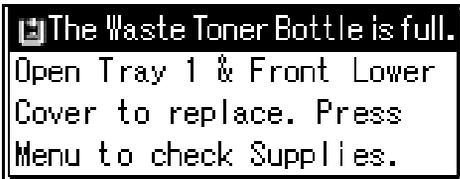
### **WARNING**

- Do not incinerate spilled or used toner. Toner dust is flammable and might ignite when exposed to an open flame.
- Dispose at an authorized dealer or an approved collection site. If you dispose of the used toner containers yourself, do so according to local regulations.

### **CAUTION**

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

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



6

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

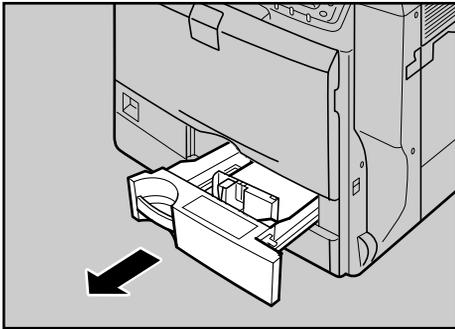


### **Important**

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

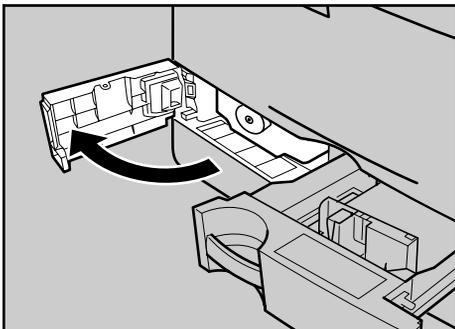
1. Turn off the printer and unplug the power cable.

2. Pull out [Tray 1] carefully until it stops.



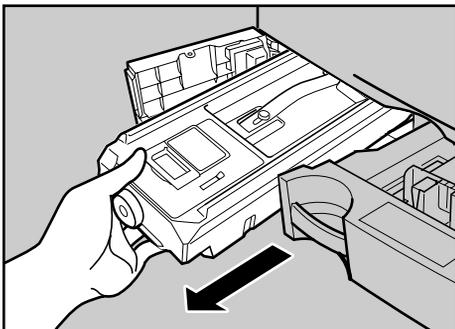
ASZ112S

3. Open the left front cover slowly.



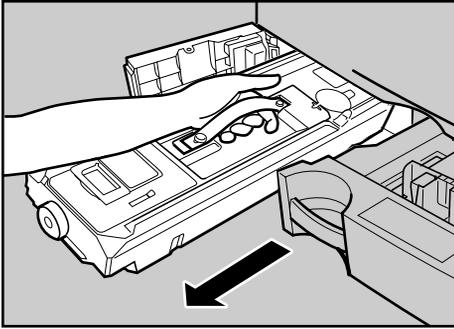
ASZ113S

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



ASZ114S

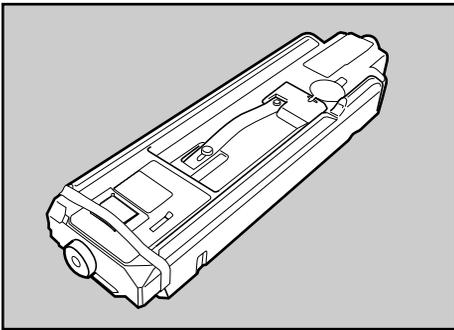
5. Holding the handle, carefully pull out the waste toner bottle horizontally.



ASZ115S

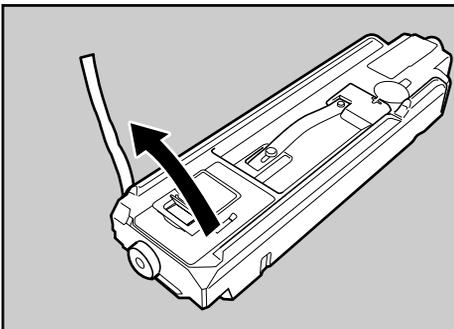
6. Put the waste toner bottle into the supplied plastic bag to prevent toner from leaking out of the bottle. Then, seal the bag.
7. Take the new waste toner bottle out of the box.

6



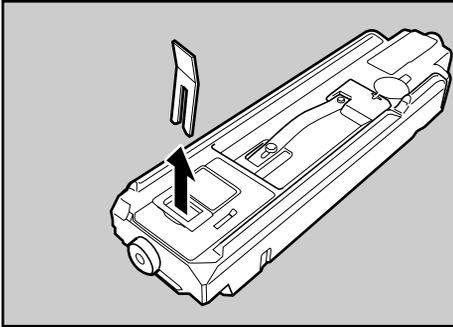
ASZ116S

8. Remove the tape slowly.



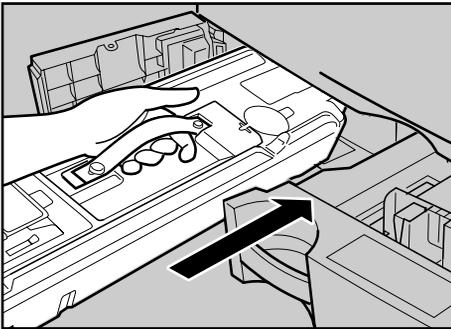
ASZ286S

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



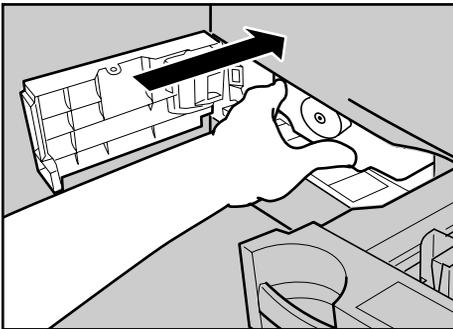
ASZ287S

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



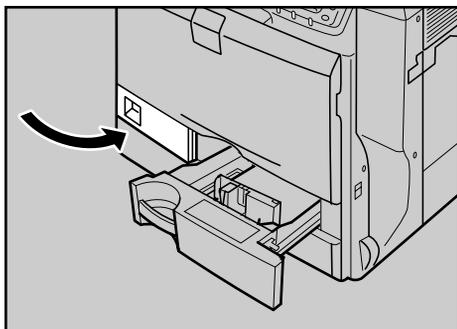
ASZ117S

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



ASZ118S

**12. Carefully close the left front cover.**



ASZ119S

**13. Carefully push [Tray 1] into the printer until it stops.**

**14. Plug in the power cable and turn on the printer.**

# Replacing the Fusing Unit and Transfer Roller

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



Replace the transfer roller at the same time.

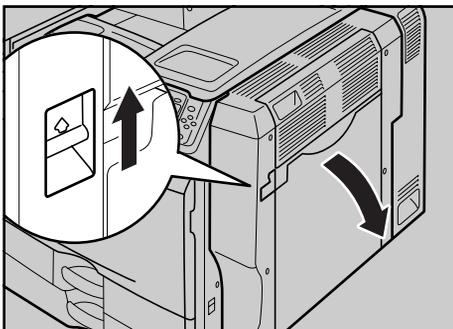
## Replacing the Fusing Unit

6

### **⚠ CAUTION**

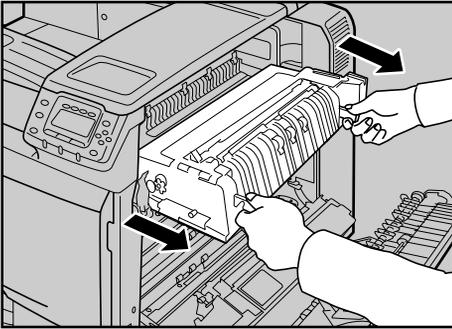
- The fusing unit becomes very hot. When installing a new fusing unit, turn off the printer and wait at least an hour before replacing the old fusing unit. Not allowing the unit to cool may result in burns.

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



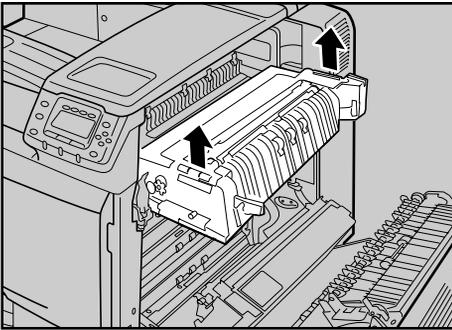
ATU098S

3. Holding the green levers on both sides, pull the fusing unit out.



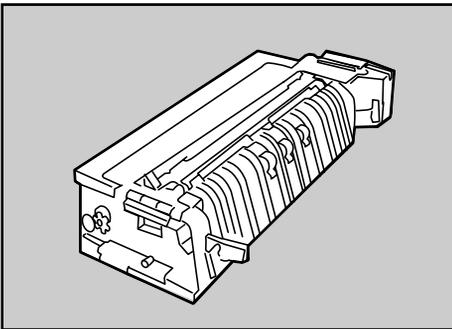
ATU075S

4. Lift and hold the green handles on both sides of the fusing unit, and then slowly pull up the fusing unit.



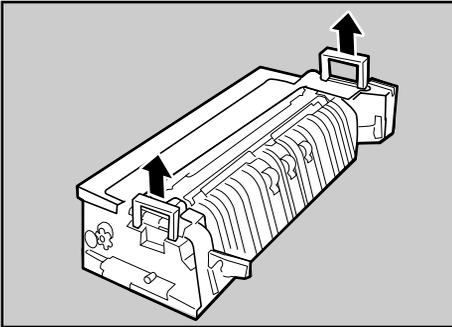
ATU076S

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



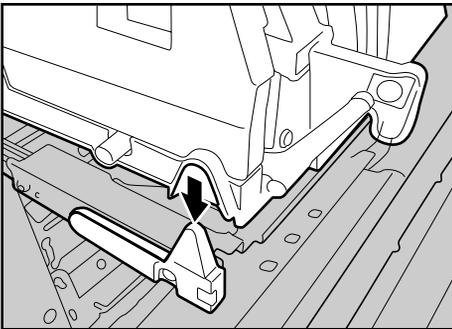
ATU078S

- Lift and hold the green handles on both sides of the fusing unit.



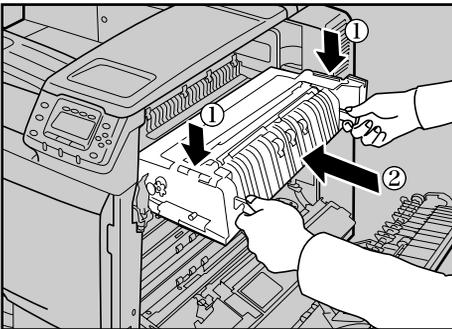
ATU079S

- Holding the fusing unit by the handles, place it on the rails of the printer as indicated.



ATU080S

- Return the green handles to their original positions ( ). Then, holding the green levers, carefully push in the fusing unit completely ( ).



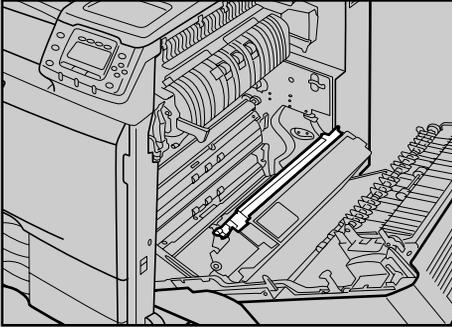
ATU081S

**Note**

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

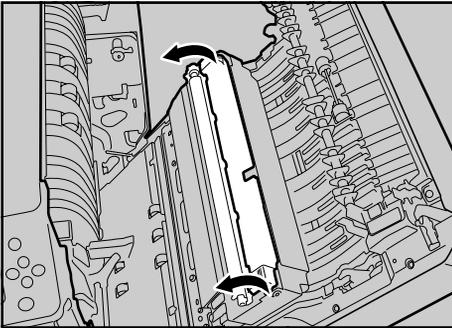
## Replacing the Transfer Roller

1. The transfer roller is installed as shown below.



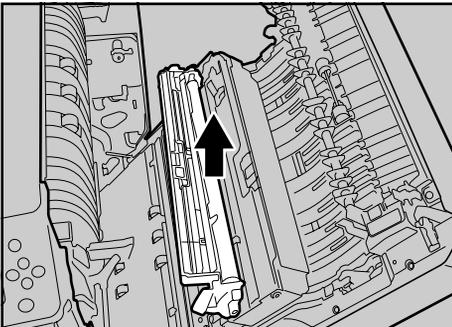
ATU052S

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



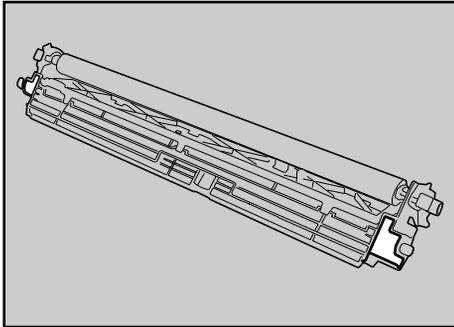
ATU053S

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



ATU054S

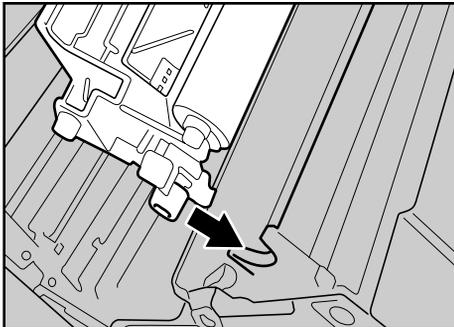
4. Take the new transfer roller out of the bag.



ATU0565

Hold the grips on both sides of the transfer roller.

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



ATU0566

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



ATU0568

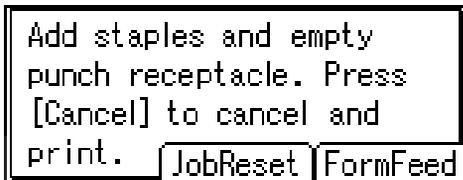
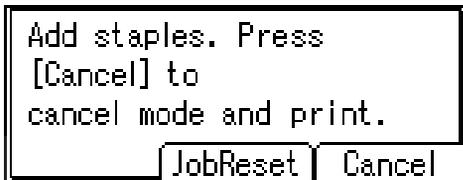
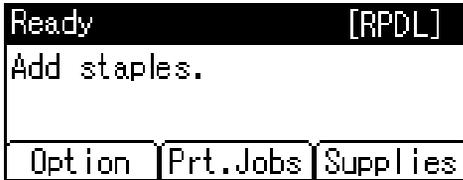
7. Carefully close the right cover.
8. Plug in the power cable and turn on the printer.

# Adding Staples

## ⚠ CAUTION

- Keep your hands clear of the booklet finisher tray when pulling out or pushing in the finisher's staple unit. You can trap your fingers if you do not.

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

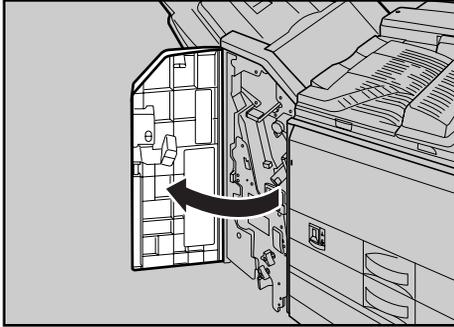


## ★ Important

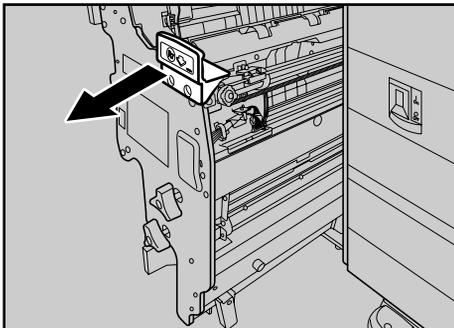
- Be sure to use the approved staple cartridges. Stapling failures or jams may occur if you use a staple cartridge other than that recommended.
- After the cartridge is replaced, the next five to seven sheets will not be stapled until the finisher has adjusted the position of the staple sheet.

## When the Booklet Finisher is Installed

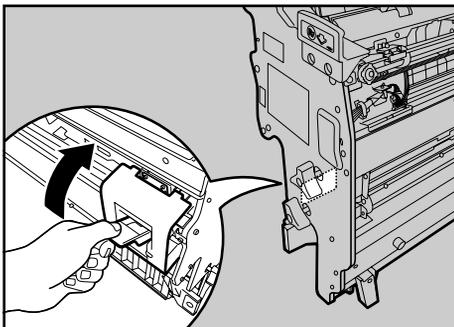
1. Open the front cover of the finisher.



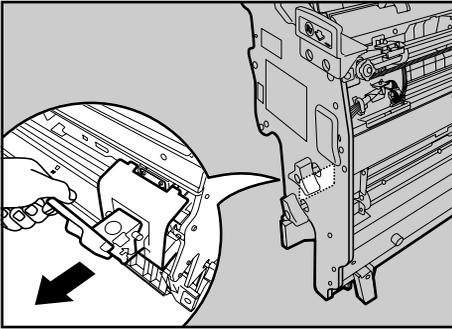
2. Holding the R7 lever, pull out the staple unit.



3. Raise the lever.

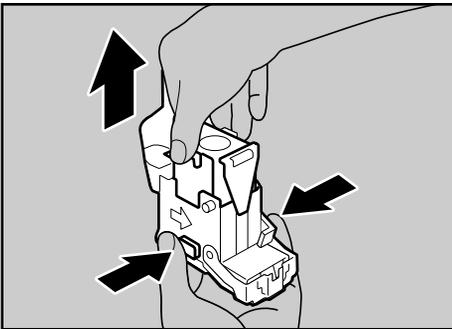


4. Holding the lever on the cartridge, pull the cartridge gently out of the staple unit.



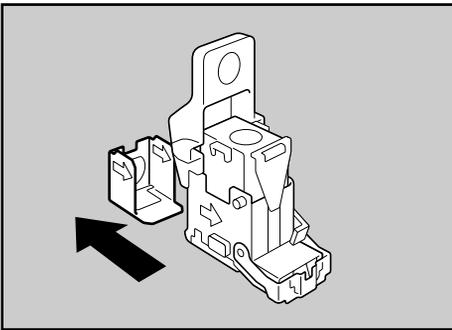
ASZ188S

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



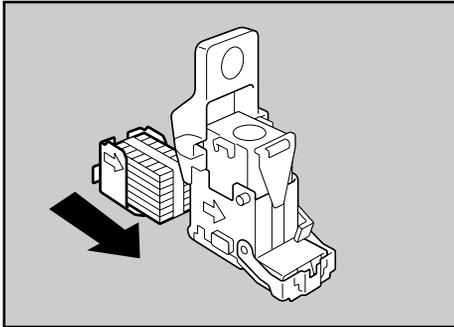
ASZ220S

6. Take out the empty staple case.



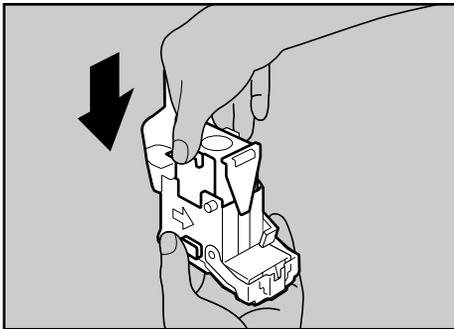
ASZ221S

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



ASZ222S

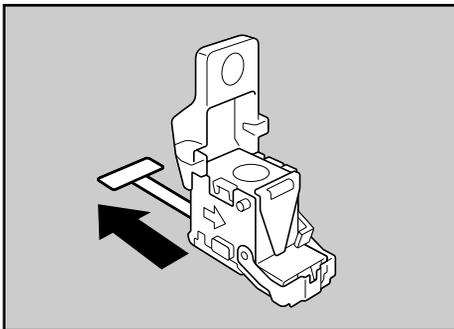
8. Lower the upper unit carefully.



ASZ223S

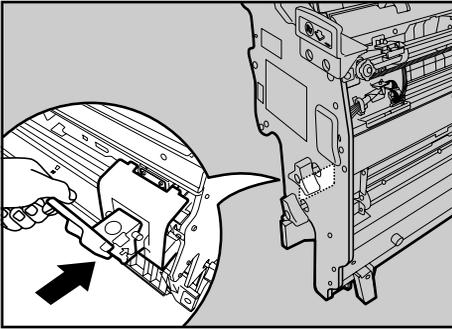
9. Pull the ribbon out of the staple case that you attached.

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



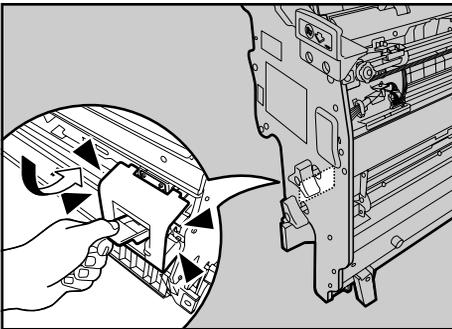
ASZ224S

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



ASZ225S

11. Push the lever down until it clicks.



ASZ226S

12. Return the staple unit to its original position.

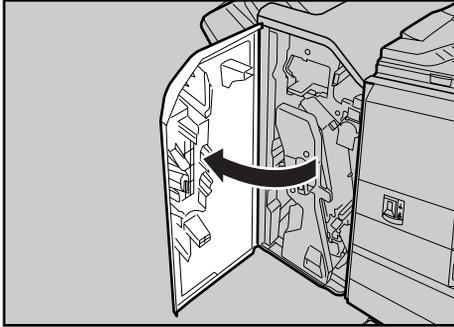
13. Close the front cover of the finisher.

**Note**

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

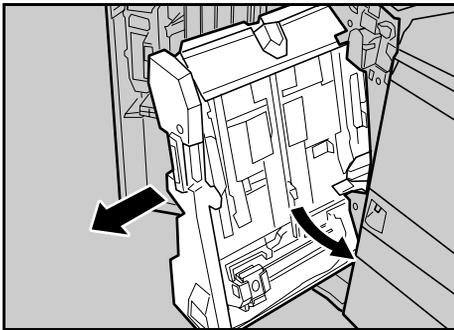
## When the 2 Tray Finisher is Installed

1. Open the front cover of the finisher.



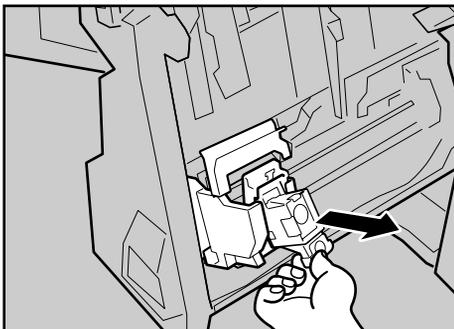
AS2272S

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



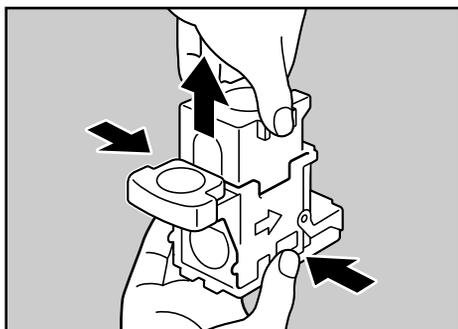
AS2227S

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



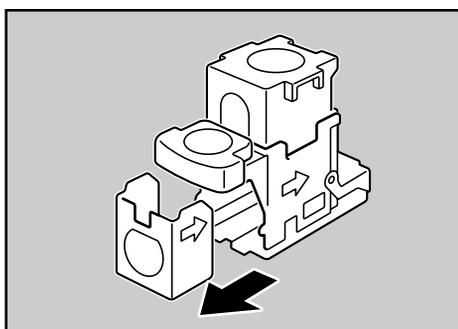
AS2228S

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



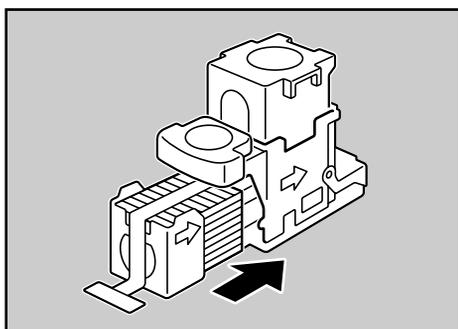
ASZ2345

5. Take out the empty staple case.



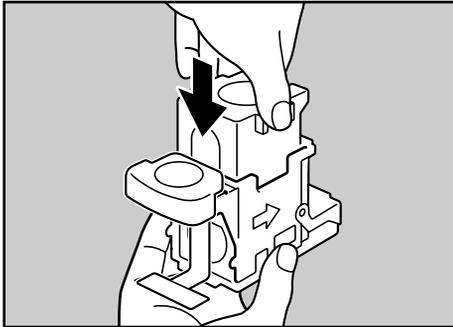
ASZ2355

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



ASZ2365

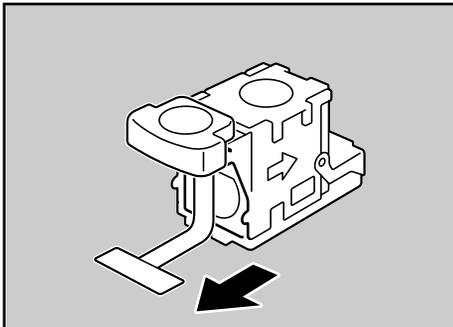
7. Lower the upper unit carefully.



ASZ237S

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

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



ASZ238S

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



ASZ229S

10. Return the staple unit to its original position.

11. Close the front cover of the finisher.

**Note**

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



# 7. Cleaning the Printer

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## Cautions When Cleaning

### **WARNING**

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

### **CAUTION**

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

Clean the printer periodically to maintain fine printing.

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

### **Important**

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

## Cleaning the Friction Pads

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

### ★ Important

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

### ↓ Note

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

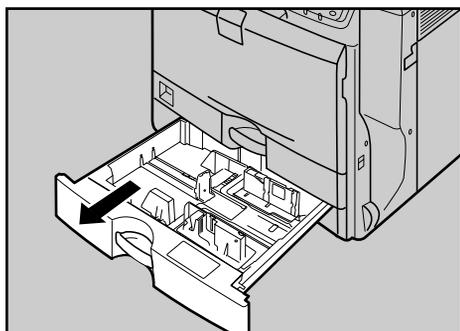
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### Paper Tray, 500/1000-sheet Paper Feed Unit

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

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



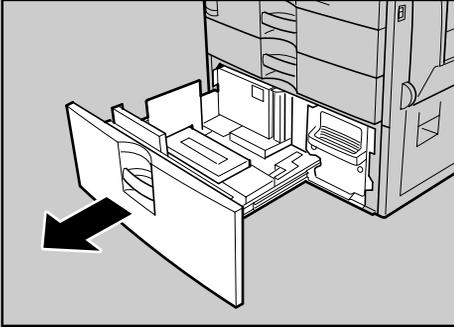
ASZ129S

2. Remove the loaded paper.
3. Wipe the friction pad with a soft damp cloth.
4. Reload the paper into the paper tray and push it gently into the printer until it stops.

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

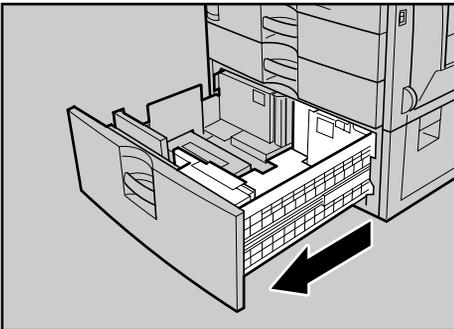
## 2000-sheet Paper Feed Unit

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



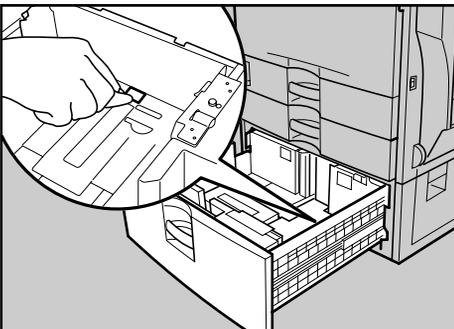
AS2277S

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



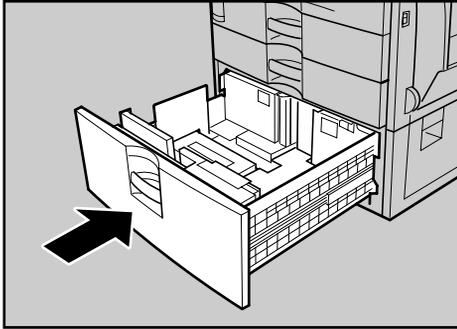
AS2278S

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



AS2279S

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



ASZ280S

# Cleaning the Registration Roller

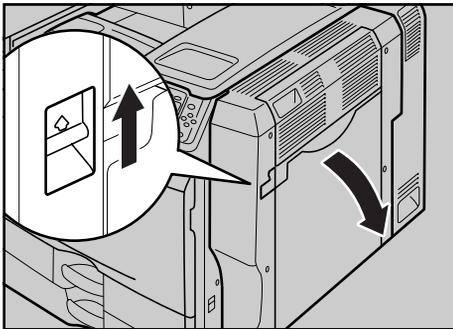
If types of paper other than the standard types are used, specks of paper may stick around the registration roller, causing problems. Clean the registration roller if white dots appear on prints.

## **⚠ CAUTION**

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

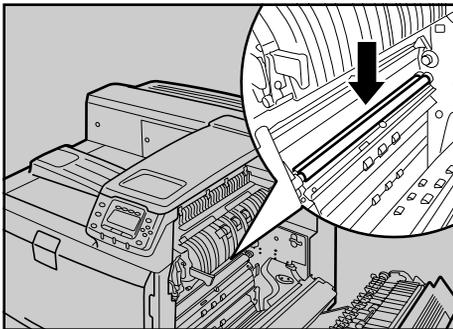
## **★ Important**

- Do not use chemical cleaners or organic solvents such as thinners or benzene.
  - Do not touch the belt of the roller when cleaning.
1. Turn off the printer and unplug the power cable.
  2. Push up the lever on the right side, and open the printer's right cover carefully.



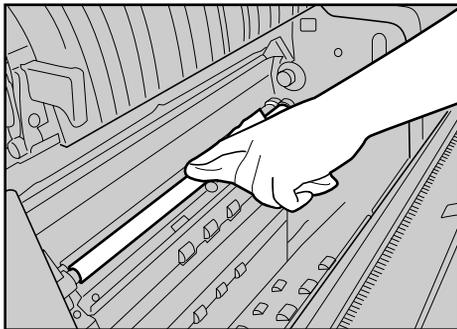
ATU098S

The registration roller is installed as shown below.



ASZ144S

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



ASZ145S

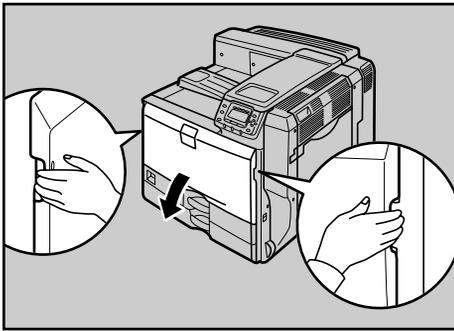
4. Close the right cover.
5. Plug in the power cable and turn on the printer.

# Cleaning the Dustproof Glass

Clean the dustproof glass if white lines appear on prints.

## ★ Important

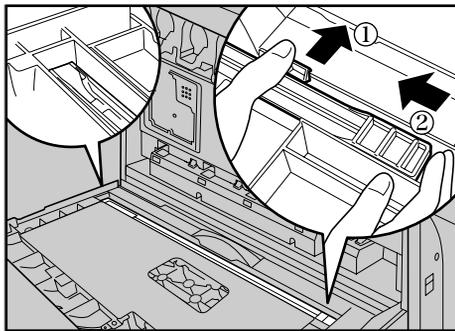
- Do not forcefully insert the cleaning stick. It may scratch the inside of the printer.
1. Turn the printer off and unplug the power cable.
  2. Holding the left and right handles, open the front cover.



ASZ056S

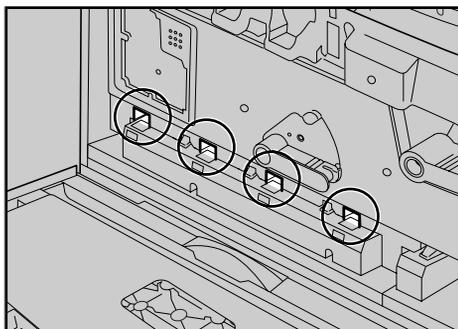
The cleaning stick is installed inside the front cover.

3. Push and hold the grip in the center ( ① ), and lift the handle of the cleaning stick ( ② ).



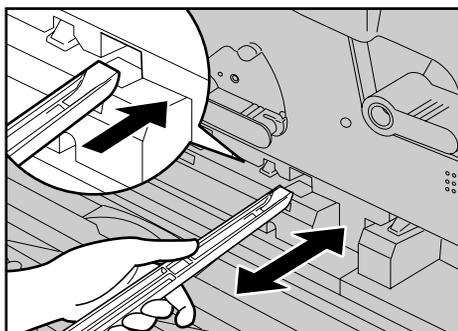
ASZ146S

4. There are four holes to insert the cleaning stick.



ASZ139S

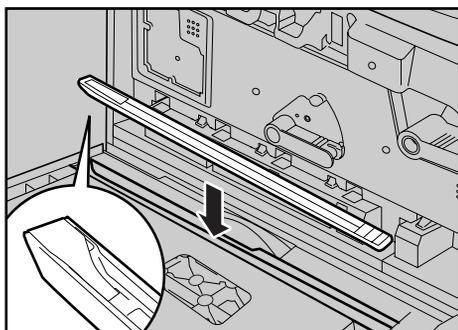
5. Place the cleaning stick back inside the front cover.



ASZ140S

Clean all holes.

6. Return the cleaning stick inside the front cover.



ASZ141S

Be sure the cloth tape faces down when you replace the stick.

7. Close the front cover carefully.
8. Plug in the power cable and turn on the printer.

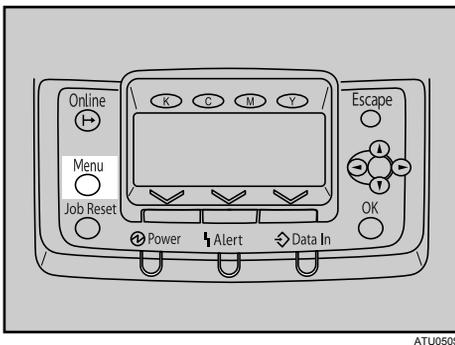
# 8. Adjusting the Printer

## Adjusting the Color Registration

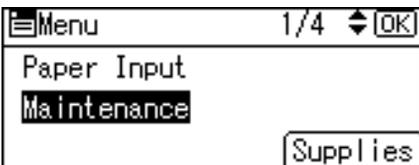
This section describes automatic color adjustment.

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

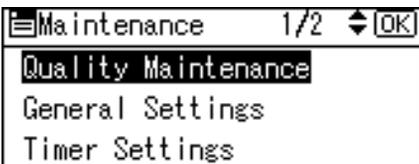
1. Press the [Menu] key.



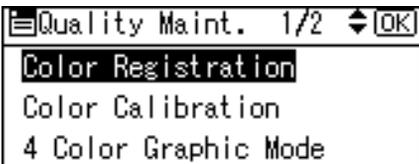
2. Press the [▼] or [▲] key to select [Maintenance], and then press the [OK] key.



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



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



5. Press the [OK] key.



6. The confirmation message appears. Press [OK].



Automatic adjustment begins.

Automatic adjustment takes about 30 seconds.

A confirm message appears when complete.

7. Press [Exit].

The display returns to the Color Registration screen.

The display returns to the initial screen.

# Correcting the Color Gradation

This section describes correcting the color gradation.

Color gradation during color printing can change slightly, depending on a number of factors. If you print the same file repeatedly or toner was recently replaced, changes may occur in color tones. In such cases, you can obtain optimal print results by correcting the color gradation.

## ↓ Note

- Color gradation correction is not required under normal circumstances.
- If a printer is not used for some time, changes could occur in color tones.
- If suitable results cannot be obtained after a single correction, repeat the correction several times as needed.
- Corrections to color gradation will be applied to all user jobs.
- Use the same type of paper when printing a run of gradation corrections. If a different type of paper is used, corrections may not be apparent.
- This feature requires the use of the supplied Color Calibration Sample Sheet.
- Corrections to color gradation are performed in the following order:
  1. Print gradation correction sheet 1.  
Set the correction value.  
Print the gradation correction sheet, and then check the result of the correction.
  3. Print gradation correction sheet 2.  
Adjust the parts of middle colors.  
Set the correction value.  
Print the gradation correction sheet, and then check the result of the correction.
- 4. Save the correction value.

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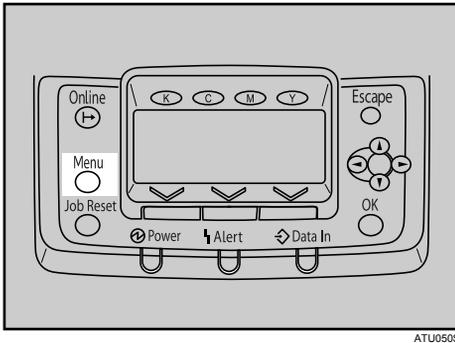
## Setting the Gradation Correction Value

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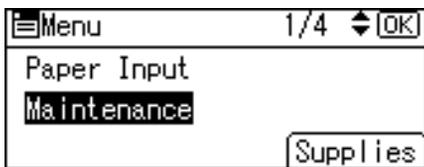
The following procedure describes adjusting the gradation correction value.

Correct the gradation in two areas: bright areas (highlights), and medium areas (midtone). Print sheet 1 is used to set the correction value for highlights, and print sheet 2 is used for mid tones.

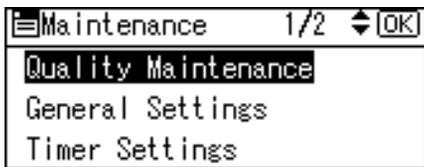
1. Press the [Menu] key.



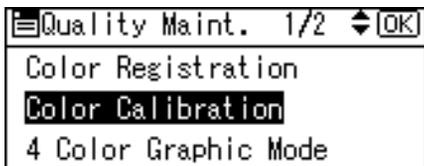
2. Press the [▼] or [▲] key to select [Maintenance], and then press the [OK] key.



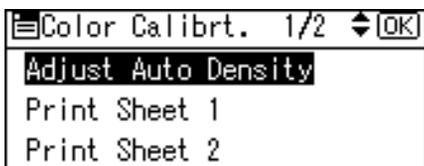
3. Press the [▼] or [▲] key to select [Quality Maintenance], and then press the [OK] key.



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



5. Press the [▼] or [▲] key to select [Adjust Auto Density].

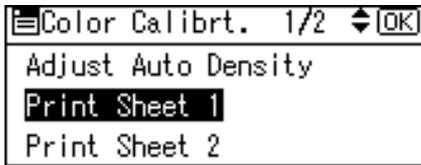


The confirmation message appears. Press [OK] to adjust Auto Density.

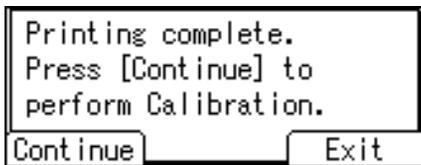
The confirmation message appears when complete. Press [Exit].

The display returns to the Color Calibration screen.

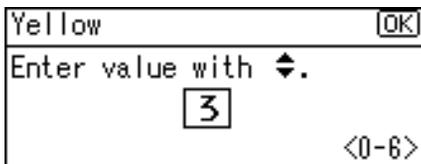
6. In the Color Calibration menu, press the [▼] or [▲] key to select [Print Sheet 1] or [Print Sheet 2], and then press the [OK] key.



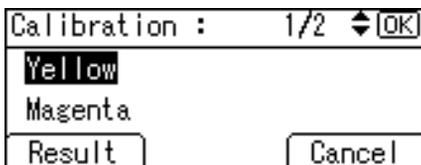
7. When the selected sheet is printed, the confirmation message appears. Press [Continue].



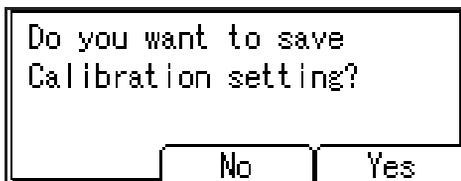
8. Press the [▼] or [▲] key to select the color you want to adjust, and then press the [OK] key.  
 9. Press the [▼] or [▲] key to adjust the correction value for the selected color, and then press the [OK] key.



10. Press [Result] to check the result by printing the calibration sheet.



11. After printing, press [Yes] to save the settings.



12. After completing all settings, press the [Online] key to return to the initial screen.

## Viewing the Color Calibration Sample Sheet and Gradation Correction Sheet

The Color Calibration Sample Sheet contains two color sample columns "sample 1" column for adjusting highlights and "sample 2" column for adjusting midtones.

The gradation correction sheet contains: "gradation correction sheet 1" for adjusting highlights and "gradation correction sheet 2" for adjusting midtones. Gradation correction sheet 1 is used for correction 1, while gradation correction sheet 2 is used for correction 2.

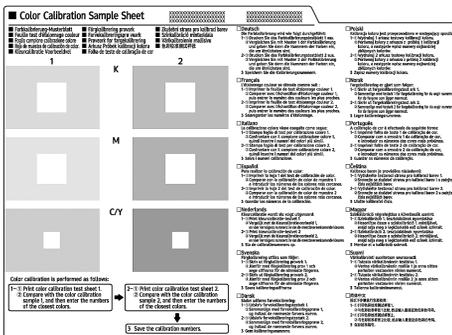
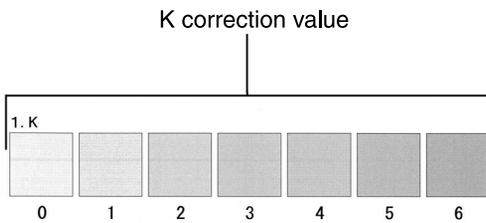
### Color sample and correction values

The following explains how to view the color sample of the Color Calibration Sample Sheet and the correction values of the gradation correction sheet.

This explanation uses setting K (black) as an example. The setting method for M (magenta) is similar. For C/Y (cyan/yellow), the correction value is determined based on combinations of these two colors, although panel settings are configured for each color separately.

**Note**

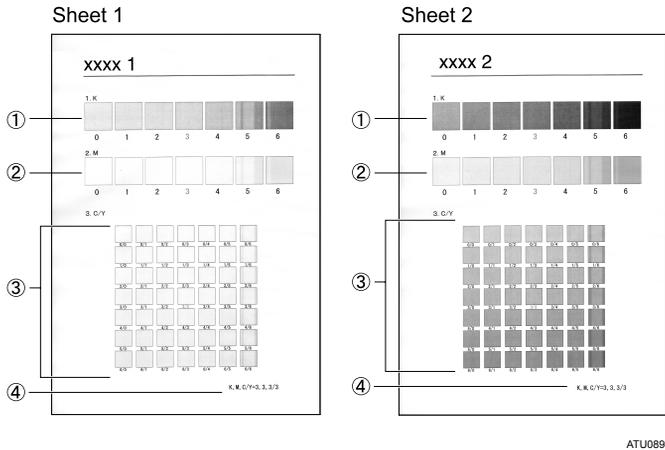
- Hold the correction value (0 to 6) for "K" of the correction value setting sheet over the color sample of gradation correction 1 of the Color Calibration Sample Sheet and find the corrected color closest to that of the color sample. End this sentence here. Then, enter the corresponding number using the operation panel. The currently set correction value is printed in red.



### Reading the gradation correction sheet

The printed gradation correction sheet is read as shown below.

Comparing the gradation correction sheet and correction value of each color, K (black), M (magenta), and C (cyan)/Y (yellow) determine the required gradation correction and configure settings using the control panel.



### 1. K (black) correction values

Used to adjust the color printed when only black toner is used. The currently set correction value is printed in red.

### 2. M (magenta) correction values

Used to adjust the color printed when only magenta toner is used. The currently set correction value is printed in red.

### 3. C (cyan)/Y (yellow) correction values

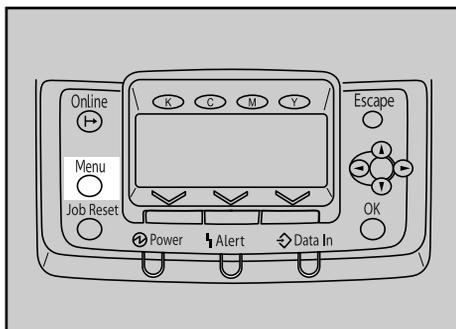
Used to correct the colors printed when cyan and yellow are used. For C/Y (cyan/yellow), the correction value is determined based on combinations of these two colors, although panel settings are configured for each color.

### 4. Setting value

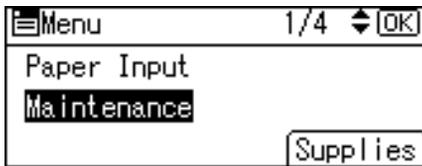
The value displayed is the one currently set when the gradation correction sheet is printed. This value corresponds to the value set on the control panel.

## Resetting the Gradation Correction Value to the Initial Value

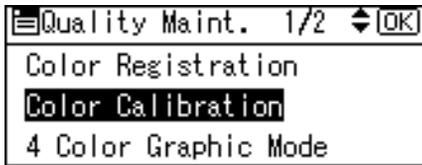
### 1. Press the [Menu] key.



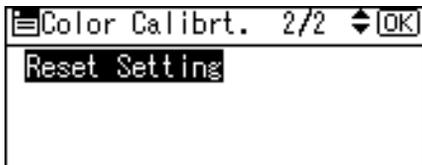
2. Press the [▼] or [▲] key to select [Maintenance], and then press the [OK] key.



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



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



A confirmation message appears. Press [Yes] to reset Calibration setting.

The confirmation message appears when complete. Press [Exit].

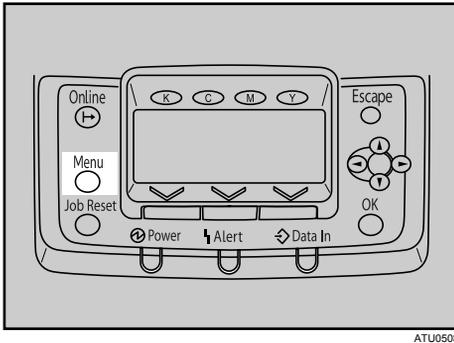
5. Press the [Online] key.

The display returns to the initial screen.

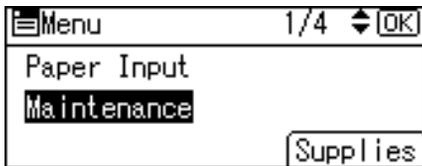
# Adjusting Printing Position

You can adjust the printing position registered for each tray. Only the horizontal printing position can be adjusted. "Horizontal" means perpendicular to the feed direction. Normally you do not need to update the printing position. However, updating is useful in some cases when the optional paper feed unit is installed.

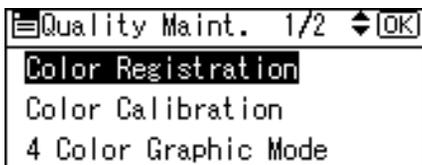
1. Press the [Menu] key.



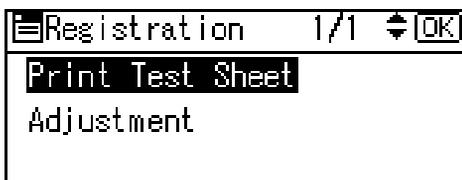
2. Press the [▼] or [▲] key to select [Maintenance], and then press the [OK] key.



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

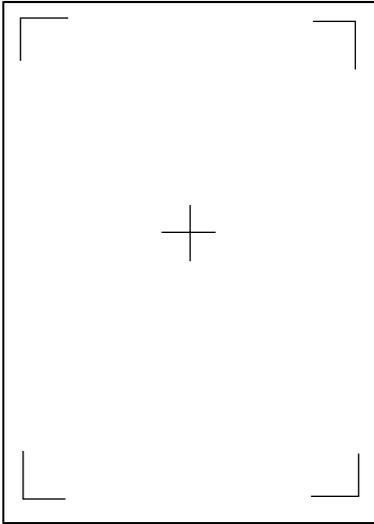


4. Press the [▼] or [▲] key to select [Print Test Sheet], and then press the [OK] key.



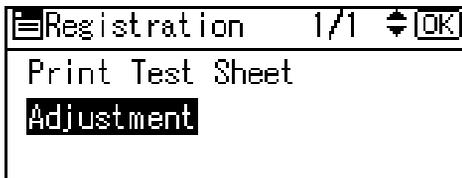
5. Press the [▼] or [▲] key to select the tray you want to adjust, and then press the [OK] key.

6. Print the test sheet to preview the settings.

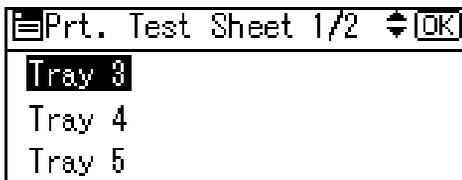


Use this sheet to confirm the current print position.

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



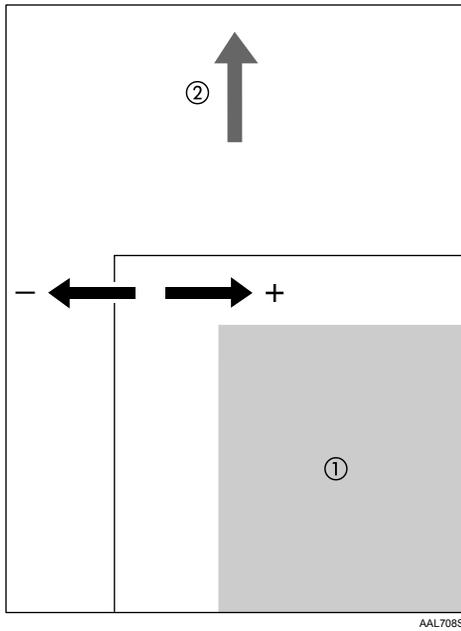
9. Press the [▼] or [▲] key to select the tray you want to adjust, and then press the [OK] key.



10. Press the [▼] or [▲] key to change the registered value (mm).



Increase the value to shift the print area in the direction indicated by the “+” symbol in the diagram below. Decrease to shift the print area in the direction indicated by the “-” symbol.



①): Print Area

②): Paper Feed Direction

11. Press the [OK] key to return to the Registration menu.
12. Print the test sheet to confirm the adjustment result.
13. Press the [Online] key.

The display returns to the initial screen.



# 9. Troubleshooting

## Error and Status Messages Appears 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)

#### Calibrating...

The printer is calibrating the color. Wait a while.

#### Energy Saver

The printer is in Energy Saver mode. Press any keys to recover to the normal mode.

#### Hex Dump Mode

In Hex Dump mode, the printer receives data in hexadecimal format. Turn off the printer after printing, and then turn back on.

#### Job Suspended

All jobs are suspended. Turn off the printer, and turn it on again to recover.

#### Loading toner

The printer is loading toner. Wait a while.

#### Offline

The printer is offline. To start printing, switch the printer online by pressing the [Online] Key.

#### Option RAM Error

The printer has detected an optional SDRAM module error. Replace the optional SDRAM module. See p. 35 "Attaching the SDRAM Module".

#### 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...**

The printer is setting changing. Wait a while.

### **Set the Intermediate Transfer Unit correctly.**

The intermediate transfer unit may not be installed correctly. Turn the printer off and re-install the transfer unit.

If the message is still displayed after re-installation, contact your sales or service representative.

See p.124 "Replacing the Intermediate Transfer Unit and Dustproof Filter" for intermediate transfer unit installation.

### **Waiting...**

The printer is waiting for the next data to print. Wait a while.

### **Alert Messages (in alphabetical order)**

#### **Cannot print**

Check the file you want to print is a supported file type. Check for misfeeds and ask your network administrator for help.

#### **Connect failed:IEEE802.11b / Turn power off, check card**

Check there is an IEEE802.11b interface board installed.

Check that it is a supported board. If it is, check it is installed correctly.

Install the correct board properly.

For details, see p.46 "Installing the IEEE 802.11b Interface Unit"

#### **Ethernet Board Error**

An error on the Ethernet board is detected. Pull out and then re-install the controller board. If the problem persists, contact your sales or service representative.

#### **Independent-supply toner**

A non-supported toner is installed. Remove it, and install toner specified by an authorized dealer.

#### **Parallel I/F Error**

The printer's self diagnostic test failed due to a loopback error. Replace the IEEE 1284 board that caused the error.

For details, see p.52 "Installing the IEEE 1284 Interface Board"

#### **Printer Font Error**

There are problems with the printer's font file.

Contact your sales/service representative.

**The selected job has already been printed or deleted.**

This message might appear if you print or delete a job from Web Image Monitor. Press Exit on the message screen.

**USB has a problem**

The printer cannot detect the USB host interface board. It may be incorrectly installed.

Check if it is installed properly or contact your sales/service representative.

For details about installing the unit, see p.54 "Installing the USB Host Interface Board".

**Note**

- Confirm error details by printing the Error Log. For details, see "List/Test Print Menu", Software Guide.

**Reference**

- "List/Test Print Menu", Software Guide.

## Panel Tones

The following table explains the meaning of the various tone patterns that the printer used to alerts to users about its condition.

Tone pattern	Meaning	Cause
Two long beeps.	Printer ready.	After cooling or being switched on, the printer has fully warmed up and is ready for use.
Single short beep.	Panel/screen input accepted.	A valid control panel or screen key was pressed. Single short beeps are produced only when valid keys are pressed.
Single long beep.	Job completed.	A Printer/Document Server Features job has finished.
Four long beeps.	Printer initialized.	The screen is changing back to the initial screen after the printer came out of the energy-saving mode or was reset.
Five short beeps repeated five times.	Printer alert.	Printer requires user attention. Paper may have jammed or toner may need replenishing.

### 9

#### ★ Important

- Users cannot mute the printer's tone alerts. When the printer beeps to alert users of a paper jam or toner request, if the printer's covers are opened and closed repeatedly within a short space of time, the tone alert might continue, even after normal status has resumed.

# Printer Does Not Print

## Is the power on?

Confirm that the cable is securely plugged into both 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.  
See p.171 "Error and Status Messages Appears on the Control Panel".

## Is paper loaded?

Load paper into the paper tray or onto the bypass tray.  
See p.97 "Loading Paper".

## Can you print a configuration page?

If you cannot print a configuration page, it probably indicates a printer malfunction. Contact your sales or service representative.  
See "Test Printing", Quick Installation Guide.

## Is the interface cable connected securely to the printer and the computer?

Connect the interface cable securely. If it has a fastener, fasten it securely as well.

## Are you using the correct interface cable?

The type of interface cable you should use depends on the computer you use. Be sure to use the correct one.

If the cable is damaged or worn, replace it with a new one.

See p.229 "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.177 "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 in the [IEEE 802.11b] menu on the control panel. If the signal is poor, either move to a location where it is good, or remove obstructions.

## How is the signal strength when using Bluetooth ?

Try the following:

- Check the Bluetooth interface unit is installed properly.
- Check there are no obstructions between computer, printer and other devices.
- Change the location of the computer.
- Change the location of the printer.

## When you use the optional Bluetooth interface unit.

### SPP

1. Make sure the printer you want to use appears in the 3Com Bluetooth Connection Manager.
2. Make sure "Bluetooth Serial Client (COMx)" appears under Client Ports in the 3Com Bluetooth Connection Manager.
3. Restart the computer, this printer, and the other devices.
4. Make sure no IEEE 802.11b (wireless LAN) or other Bluetooth devices are in use.

#### Note

- Interference may occur with the IEEE 802.11b wireless LAN interface board. Such interference may affect the transmission speed and other functions.
5. Transmissions between computers, other devices, and this printer can be blocked by obstructions. Move this printer, computers, and other devices, if necessary.

### HCRP, BIP

1. Restart the computer, this printer, and other devices.
2. Make sure no IEEE 802.11b (wireless LAN) or other Bluetooth devices are in use.

#### Note

- Interference may occur with the IEEE 802.11b wireless LAN interface board. Such interference may affect the transmission speed and other functions.
3. Transmissions between computers, other devices, and this printer can be blocked by obstructions. Move this printer, computers and other devices, if necessary.

If printing still does not start, contact your sales or service representative. Consult with the store where the printer was purchased for information about the location of sales or service representatives.

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## Checking the Port Connection

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When the Data in indicator does not flash or light up, check the port connection as shown below to confirm the setting.

- For a parallel port connection, the port must be set to LPT 1 or LPT 2.
  - For a USB port connection, the port must be set to USB00(n)\*.
- \* (n) varies depending on the number of printers connected.

### Windows 95/98/Me

1. Click [Start], point to [Settings] and then click [Printers].
2. Click to highlight 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.

### Windows 2000

1. Click [Start], point to [Settings] and then click [Printers].
2. Click to highlight 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, Windows Server 2003

1. Access the [Printers and Faxes] folder from [Start].
2. Click to highlight 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 4.0

1. Click [Start], point to [Settings] and then click [Printers].
2. Click to highlight 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.

# Printing Problems

## **Toner smears appear on the print side of the page.**

- The paper setting may not be correct. For example, although you are using thick paper, the setting for thick paper may not be set.
- Check the paper settings.
- Check the printer driver's paper settings. See the printer driver Help.
- When "Replace PCU:Black." or "Replace PCU:Colour." appears on the display, replace the photo conductor unit. See p.117 "Replacing the Photo Conductor Unit".
- Confirm that the paper is not curled or bent. Envelopes can be curled easily. Flatten paper before loading. See p.81 "Paper and Other Media".

## **Paper jams occur frequently.**

- Check the following items.
  - The side guides of the paper tray are locked.
  - The end guides of the paper tray are set correctly.
  - The side guides of the bypass tray are set correctly.
- If paper misfeeds every time duplex print is performed, check the following items.
  - The end guides of the paper tray are set correctly.
  - The loaded paper and the paper type set at the control panel match. For more solutions to this problem, see p.220 "Duplex Print Always Misfeeds".
- Make sure that nothing is placed on the finisher tray.
- The stapler cartridge may not be installed correctly.
- Re-install it correctly.
- 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.97 "Loading Paper".
- There may be a gap between the front guide and the paper, or between the side guides and the paper in the paper tray. Make sure there are no gaps.  
See p.97 "Loading Paper".
- The side guides of the paper tray are too tight. Re-position the guides so that they gently touch the loaded paper. In addition, when printing to thick paper, it is recommended to load more than 20 sheets.
- If paper misfeeds occur regularly when printing from the bypass tray, the settings of the control panel and those of the printer driver may not match. Check which settings are given properly. For details, see Paper Input menu parameters, in Print Settings Menu, Software Guide.
- Paper is either too thick or too thin. See p.81 "Paper and Other Media".

- Paper is bent or wrinkled. Use paper that have no bents or wrinkles. See p.81 "Paper and Other Media".
- Paper has already been printed on. See p.81 "Paper and Other Media".
- Paper is damp. Use paper that has been stored properly. See p.81 "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 front guide and the paper, or between the side guides and the paper in the paper tray. Make sure there are no gaps. See p.97 "Loading Paper".
- Paper is either too thick or too thin.  
See p.81 "Paper and Other Media".
- Paper has already been printed on.  
See p.81 "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.81 "Paper and Other Media".
- Paper is static. Use paper that has been stored properly.  
See p.81 "Paper and Other Media".
- When loading paper, separate paper from each other.

### **Paper gets wrinkles.**

- Paper is damp. Use paper that has been stored properly.  
See p.81 "Paper and Other Media".
- Paper is too thin.  
See p.81 "Paper and Other Media".
- There may be a gap between the front guide and the paper, or between the side guides and the paper in the paper tray. Make sure there are no gaps.  
See p.97 "Loading Paper".
- The fusing unit is deteriorated or damaged. Replace the unit.  
See p.137 "Replacing the Fusing Unit and Transfer Roller".

### **The back of the paper is printed on.**

- The paper has been loaded upside down.  
Load paper in the paper trays with the print side up. Load paper in the bypass tray with the print side down.  
See p.97 "Loading Paper".

**Duplex printing cannot be performed.**

- Paper is loaded in the bypass tray. Duplex printing cannot be done from the bypass tray.
- Duplex printing cannot be done on the following types of paper: label paper, Cardstock, OHP transparency, envelopes, coated paper, thick paper 2, thick paper 3, the reverse side of thick paper 1, the reverse side of thick paper 2, the reverse side of thick paper 3
- Paper heavier than 169 g/m<sup>2</sup> (40 lb.) is loaded.

Change the paper for printing.

**With Windows 95/98/Me, Windows 2000/XP, Windows Server 2003 or Windows NT 4.0, when doing aggregate prints or bound prints.**

- Check that the paper size and direction set in the [Menu] tab of the printer driver are the same as those set in the application.

If the settings are not the same, change the settings of the printer driver.

**Paper is not fed from the selected tray.**

- When you are using a Windows operating system, the printer driver settings override those set using the control panel. Set the desired input tray using the printer driver.

See the printer driver Help.

**A printed image is different from the image on the computer's display.**

- When you use some functions, such as enlargement and reduction, the layout of the image might be different from that displayed in the computer display.
- You might have selected to replace True Type fonts with printer fonts in the printing process. To print an image similar to the image on the computer, make the settings to print out True Type fonts as an image.

See the printer driver Help.

**It takes too much time to turn on the printer.**

- If the printer is turned off while it is still accessing the hard disk (for example: during file deletion), the printer will require more time to power-up the next time it is turned on. To avoid this time delay, do not turn the power off while it is in operation.

**It takes too much time to resume printing.**

- The data is so large or complex that it takes time to process it. If the **Data In** indicator is blinking, the data is being processed. Just wait until it resumes.
- If an OHP transparency or glossy paper is being used, printing takes more time to start.
- The printer was in the Energy Saver mode. To resume from the Energy Saver mode, the printer has to warm up, and this takes time until printing starts. To disable the Energy Saver mode, select [Off] for [Energy Save] 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.

**Images are cut off, or excess pages are printed.**

- If you are using paper smaller than the paper size selected in the application, use the same size paper as that selected in the application. If you cannot load paper of the correct size, use the reduction function to reduce the image, and then print.

See the printer driver Help.

**The color of the printout is different from the color on the computer's display.**

- The colors made using color toner are different from colors displayed on the display in its production system.
- When [Toner saving] is checked under the "Print Quality" tab in the printer driver's dialog box, the color gradation may appear differently.

See the printer driver Help.

**Color changes extremely when adjusted with the printer driver.**

- Do not extreme settings for the color balance under the "Print Quality" tab in the printer driver's dialog box.

Please note that the sample image displayed in the printer driver is used only to show what processing will be performed, so may not match the print results.

See the printer driver Help.

**Photo images are coarse.**

- Some applications lower the resolution for making prints.

Raise the resolution in the settings for that application.

**Color documents are printed in black and white.**

- The printer driver is not set up for color printing.

See the printer driver Help.

- Some applications print color files in black and white.

**Fine dot pattern does not print.**

- Change the [Dithering:] setting in the printer driver's dialog box.

See the printer driver Help.

**Solid areas, lines or text are shiny or glossy when created as a mixture of cyan, magenta, yellow.**

- Select [K (Black)] for [Gray reproduction (Text/Line Art):] in the printer driver's dialog box.  
See the printer driver Help.

**Black gradation is not natural.**

- Select [CMY + K] for [Gray reproduction (Text/Line Art):] in the printer driver's dialog box.  
See the printer driver Help.

**Solid lines are printed as broken lines.**

- Change the [Dithering:] setting in the printer driver's dialog box.  
See the printer driver Help.

**Images are printed at an angle**

- Confirm that the side guides of the paper tray are locked.  
If paper is not loaded correctly, it may be processed at an angle.

**A color is missing or partially blurred.**

- Paper is damp. Use paper that has been stored properly.  
See p.81 "Paper and Other Media".
- Toner is almost depleted. When the "Out of toner" / "Replace Toner Cartridge." / "(color)", "Toner is almost empty" / "(color)", or "Add Toner:" message appears on the display panel, or the toner indicator on the initial screen seems empty, replace the toner cartridge of the displayed color.  
See p.113 "Replacing Toner".
- When "Replace PCU:Black." or "Replace PCU:Colour." appears on the display, replace the photo conductor unit.  
See p.117 "Replacing the Photo Conductor Unit".
- 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.81 "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 "Out of toner" / "Replace Toner Cartridge." / "(color)", or "Toner is almost empty" / "(color)" message appears on the display panel, or the toner indicator on the initial screen seems empty, replace the toner cartridge of the displayed color.

See p.113 "Replacing Toner".

- When the message "Replace PCU:Black." or "Replace PCU:Colour." appears, replace the photo conductor unit.

See p.117 "Replacing the Photo Conductor Unit".

- Condensation may have collected. If rapid change in temperature or humidity occurs, use this printer only after it has acclimatized.

### **White streaks or color streaks appear.**

- Toner is almost depleted. When the "Out of toner" / "Replace Toner Cartridge." / "(color)", or "Toner is almost empty" / "(color)" message appears on the display panel, or the toner indicator on the initial screen seems empty, replace the toner cartridge of the displayed color.

See p.113 "Replacing Toner".

- When the message "Replace PCU:Black." or "Replace PCU:Colour." appears, replace the photo conductor unit.

See p.117 "Replacing the Photo Conductor Unit".

- The paper is damp. Use paper that has been stored at a suitable temperature and humidity. Specks of paper may be attached to the registration roller. Clean the registration roller. For details, see p.155 "Cleaning the Registration Roller".

### **White or color rivers appear.**

- When the message "Replace PCU:Black." or "Replace PCU:Colour." appears, replace the photo conductor unit.

See p.117 "Replacing the Photo Conductor Unit".

### **The backs of printed sheets are blemished.**

- When removing a jammed sheet, the inside of the printer may have become dirtied. Print several sheets until they come out clean.
- If document size is larger than paper size, e.g. A4 document on B5 paper, the back of the next printed sheet may be dirtied.

### **Printed pages are faint, or have white streaks.**

- If  is flashing, toner is almost depleted. Add toner.

See p.113 "Replacing Toner".

### **Printed pages are faint.**

- The appropriate paper is not loaded.(Printed pages may be faint when printing to coarse or coated paper.)

For details, see p.226 "Consumables".

**If rubbed with your finger, it smears out.**

- The setting of the paper may not be correct. For example, although thick paper is used, the setting for thick paper may not be set.

On the [Menu] tab of the printer driver, set [Paper Input] to [Thick Paper].

- Check the paper settings of this printer.  
See p.86 "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.  
See p.137 "Replacing the Fusing Unit and Transfer Roller".

**When printing on OHP transparencies, a color is missing or black or white dots are obvious.**

- The registration roller is dirty. Clean the registration roller.  
See p.155 "Cleaning the Registration Roller".

**When printing on plain paper, white dots are obvious.**

- The registration roller is dirty. Clean the registration roller.  
See p.155 "Cleaning the Registration Roller".

**PDF Direct Print is not executed (PDF file is not printed).**

- When printing a PDF with a password set, set the password of the PDF file using the [Change PDF Password] menu in [PDF Menu] or Web Image Monitor. For [Change PDF Password], see the "PDF Menu", Software Guide.

For Web Image Monitor, see Help.

- PDF files not allowed to be printed by the PDF file security setting cannot be printed.
- Highly compressed PDFs cannot be printed using PDF Direct Print.  
Open the relevant application and print the PDF file using the printer driver.  
Set the file format to standard PDF.

**As a result of printing using PDF Direct Printing, characters are missing or misshapen.**

- Before printing, embed the font in the PDF file to be printed.

**The paper size appears on the control panel and printing is not performed with PDF Direct Print.**

- When using PDF Direct Print, printout requires paper set within the PDF file. When a message indicating a paper size appears, either place the indicated size in the paper tray, or perform Form Feed.

Also, if [Sub Paper Size] in the [System] Menu is set to [Auto], printing is performed assuming letter size and A4 size to be the same size. For example, When a PDF file set to A4 size paper is printed using PDF Direct Print and letter size paper is installed in the paper tray, the file will print out. This applies similarly to the opposite case.

**With Windows 95/98/Me, Windows 2000/XP, Windows Server 2003 or Windows NT 4.0, attached options are not detected.**

- The computer and printer are not in two-way communication. You must configure attached options in the printer properties.

For details, see the printer driver Help.

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

## Additional Troubleshooting

### Strange noise is heard.

- If a supply was recently replaced or an option attached in the area the strange noise is coming from, check the supply or option is properly attached. If the strange noise persists, contact your sales or service representative.

### No e-mail is received when an Alert occurs, and after resolving an Alert.

- Confirm [Notify by Email] is active in the [System] Menu on the Control Panel. See "System Menu", Software Guide.
- Access the printer through the Web browser, log on as an Administrator on the Web Image Monitor, and then confirm the following settings in [Auto E-mail Notification]:
  - Device E-mail Address
  - Groups to Notify
  - Select Groups/Items to Notify

For details about the settings, see Web Image Monitor Help.

- Access the printer through the Web browser, log on as an Administrator on the Web Image Monitor, and then confirm the settings of the SMTP server in [E-mail]. For details about the settings, see Web Image Monitor Help.
- When the power is turned off before the e-mail is transmitted, the e-mail will not be received.
- Check the e-mail address set for the destination. Confirm the printer's operation history using the Web Image Monitor's System Log menu in [Network]. If the e-mail was sent but not received, it is possible the destination was incorrect. Also check the information concerning error mail from the e-mail server.

9

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.

**Alert Occurrence and Alert Resolving are set for sending e-mail, but while no Alert Occurrence mail is received, Alert-resolved e-mail is received.**

- Alert-notification e-mail is not sent if the problem is resolved before sending. However, an Alert-resolved e-mail is sent.

**Alert-notification level was changed, and e-mail stopped arriving.**

- If an Alert-notification e-mail, set with the earlier notification level, arrives, later e-mail will not be sent, even if the notification level is changed after.

**When no date information is included in sent e-mail, the mail server has a malfunction.**

- Configure the setting for obtaining time information from the SNTP server. Refer to the Web Image Monitor's Help to the settings.

**Printing using Bluetooth is slow.**

- When using the optional Bluetooth interface unit, do the following:
  - Transmit fewer print jobs.
  - Make sure no IEEE 802.11b (wireless LAN) or other 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.

When you use a Bluetooth connection, print jobs are transmitted relatively slowly.

**★ Important**

- **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.**

# Removing Jammed Staples

## ⚠ CAUTION

- Keep your hands clear of the booklet finisher tray when pulling out or pushing in the finisher's staple unit. You can trap your fingers if you do not.

## ★ Important

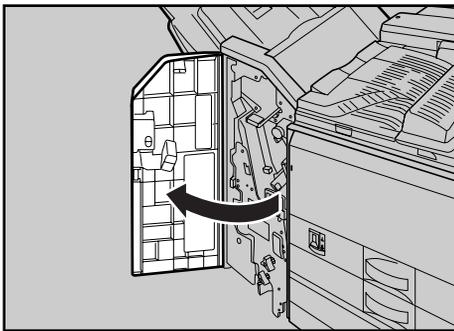
- Staples might be frequently jammed because of curled paper. In this case, try turning over the paper in the tray.
- After the cartridge is replaced, the next five to seven sheets of paper will not be stapled until the finisher has adjusted the position of the staple sheet.

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## When the Booklet Finisher is Installed

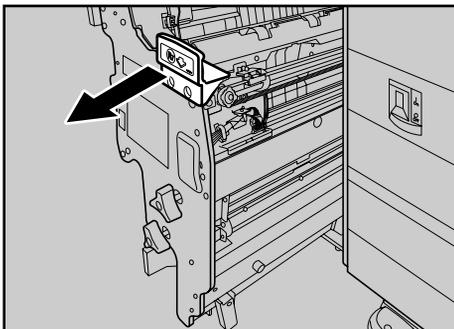
---

1. Open the front cover of the finisher.



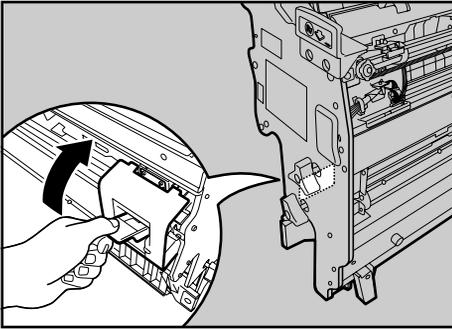
ASZ271S

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



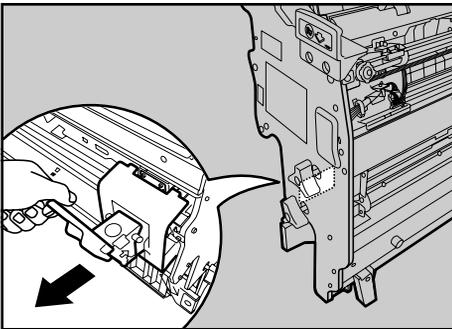
ASZ186S

**3. Raise the lever.**



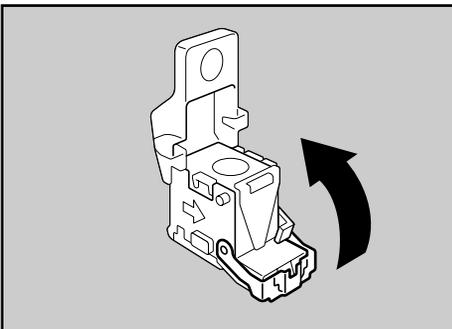
ASZ187S

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



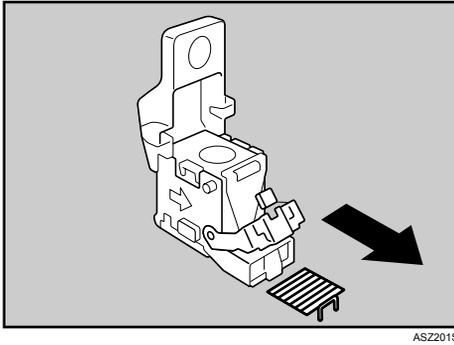
ASZ188S

**5. Raise the face plate of the cartridge.**

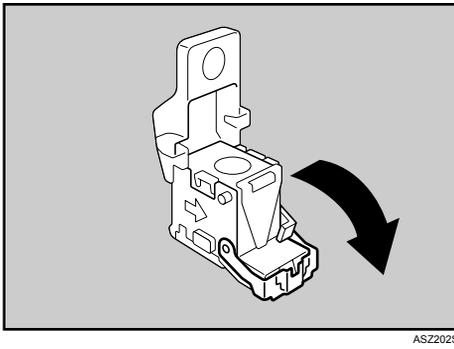


ASZ200S

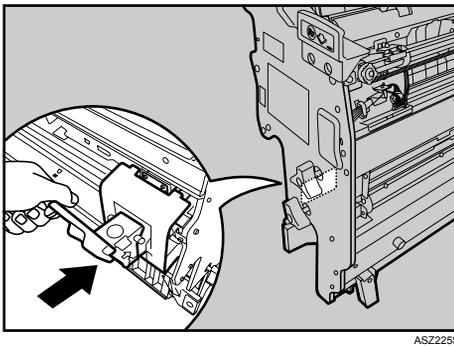
**6. Remove the jammed staples.**



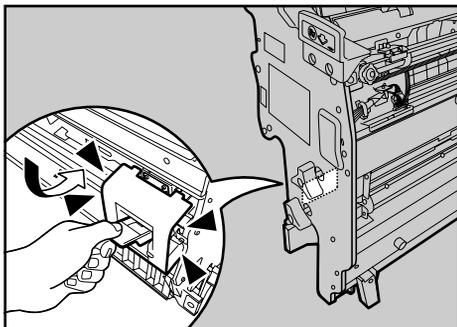
**7. Push the face plate down until it clicks.**



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



9. Push the lever down until it clicks.



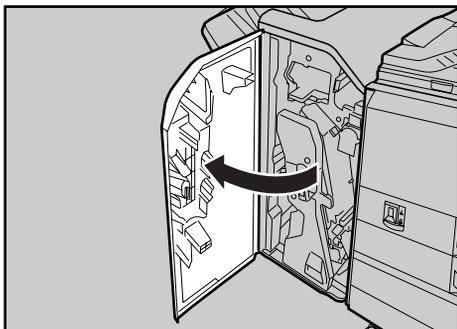
10. Return the staple unit to its original position.
11. Close the front cover of the finisher.

---

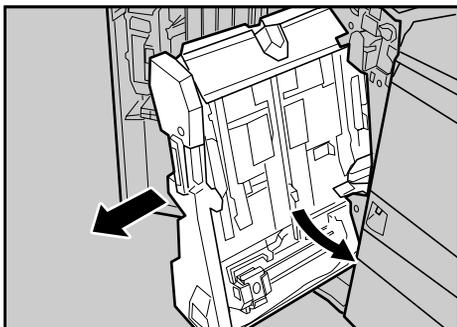
## When the 2 Tray Finisher is Installed

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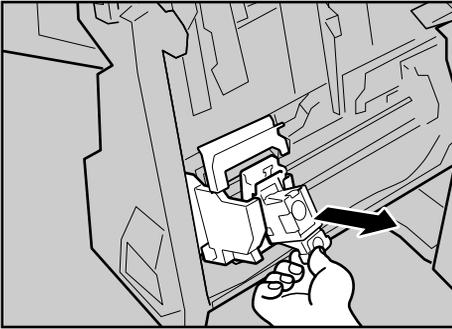
1. Open the front cover of the finisher.



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

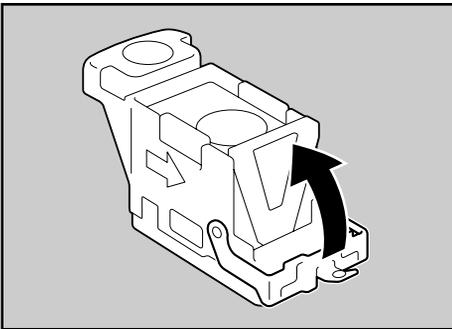


3. Hold and lift the lever on the cartridge and pull the cartridge gently out of the staple unit.



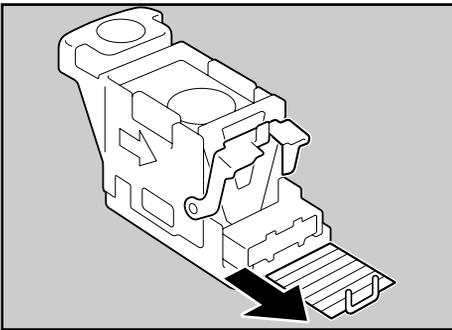
AS2229S

4. Raise the face plate of the cartridge.



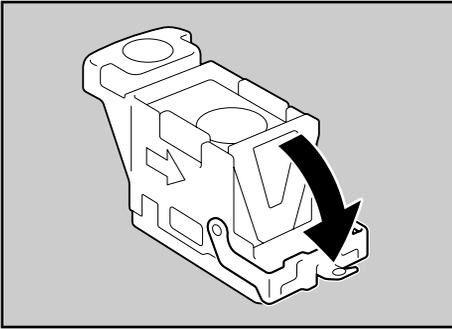
AS2230S

5. Remove the jammed staples.



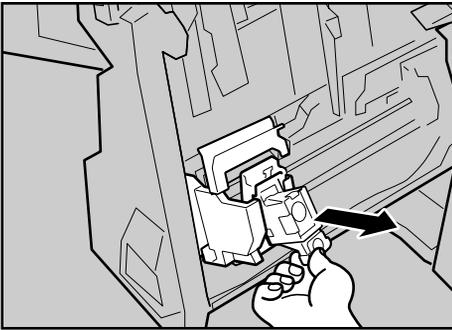
AS2231S

6. Push the face plate down until it clicks.



ASZ232S

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



ASZ229S

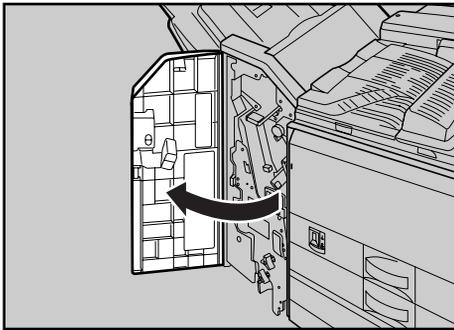
8. Return the staple unit to its original position.
9. Close the front cover of the finisher.

# Removing Punch Waste

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

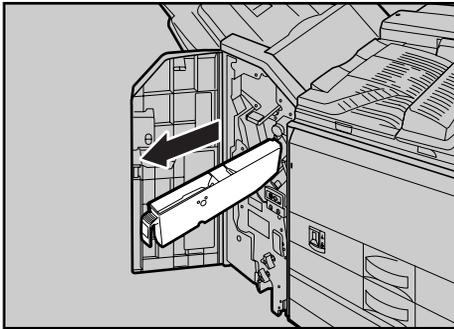
## When the Booklet Finisher is Installed

1. Open the front cover of the finisher.



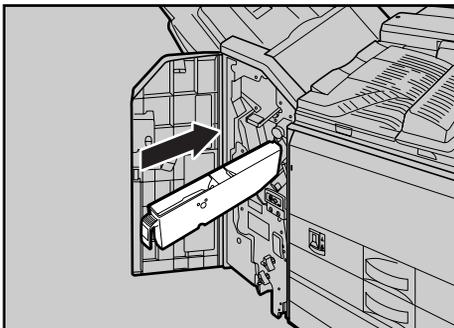
ASZ271S

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



ASZ281S

3. Re-install the punch waste box.

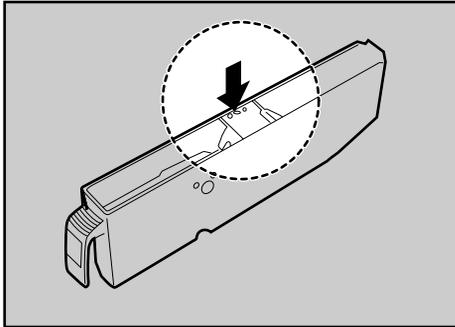


ASZ290S

#### 4. Close the front cover of the finisher.

##### ↓ Note

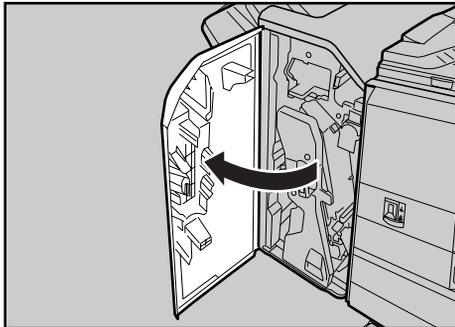
- If you do not re-install the punch waste box in step 3, the message remains displayed.
- If the message remains displayed, re-install the punch waste box.
- The message might appear even when the punch waste box is not full. In this case, there may be some punch waste on the surface shown by the arrow. Remove the punch waste.



ASZ303S

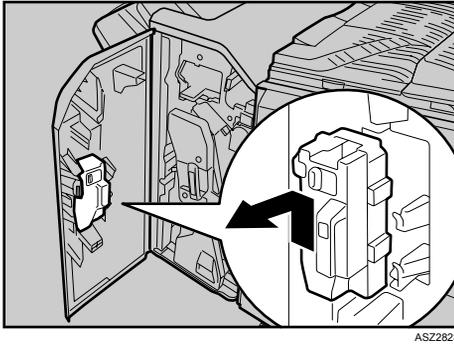
## When the 2 Tray Finisher is Installed

#### 1. Open the front cover of the finisher.



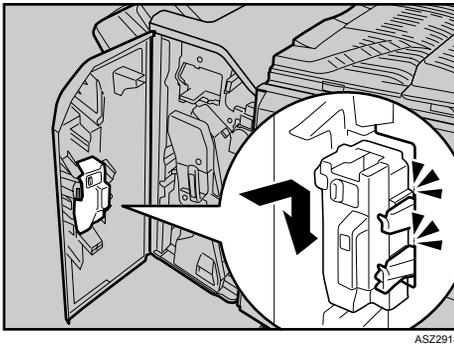
ASZ272S

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



ASZ282S

3. Re-install the punch waste box.

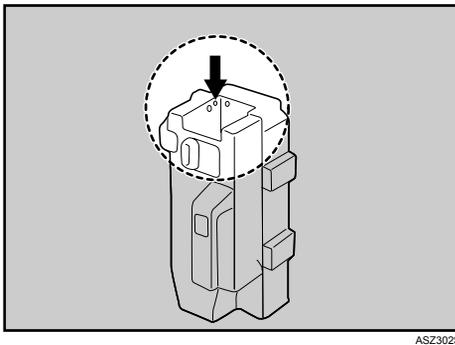


ASZ281S

4. Close the front cover of the finisher.

↓ **Note**

- If you do not re-install the punch waste box in step 3, the message remains displayed.
- If the message remains displayed, re-install the punch waste box.
- The message might appear even when the punch waste box is not full. In this case, there may be some punch waste on the surface shown by the arrow. Remove the punch waste.



ASZ302S

# 10. Removing Misfed Paper

## Removing Misfed Paper

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

### CAUTION

- The inside of this printer becomes very hot. Do not touch parts labeled "△" (indicating a hot surface). Touching these parts will result in burns.
- Keep your hands clear of the booklet finisher tray when pulling out or pushing in the finisher's staple unit. You can trap your fingers if you do not.

### Important

- Do not forcefully remove misfed paper, it may tear and torn pieces may remain inside the printer.
- When paper is misfed a number of times, the following are possible causes.
  - The control panel settings do not match the size or orientation of the loaded paper.
  - The friction pad is dirty.
- Misfed paper may be covered with toner. Be careful not to get toner on your hands or clothes.
- If paper is still misfed after you have checked the above-mentioned causes, contact your sales or service representative.

### Reference

- p.152 "Cleaning the Friction Pads".

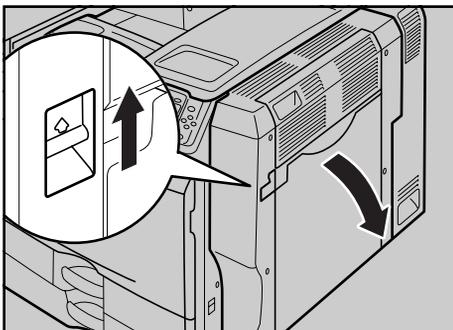
## Paper Misfeed Message (A)

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

### ★ Important

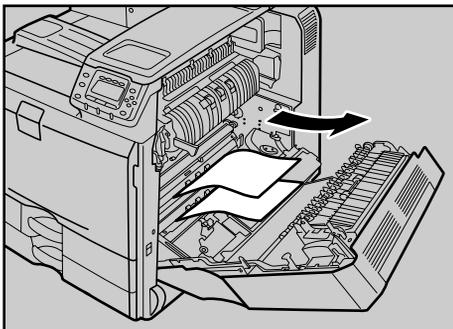
- The inside of this printer becomes very hot. Before removing paper around the fusing unit, wait until the temperature of the covers inside the fusing unit and duplex unit cool down.
- When a paper misfed (A) occurs, the paper tray is locked and cannot be pulled out. Do not forcefully pull out the tray.

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



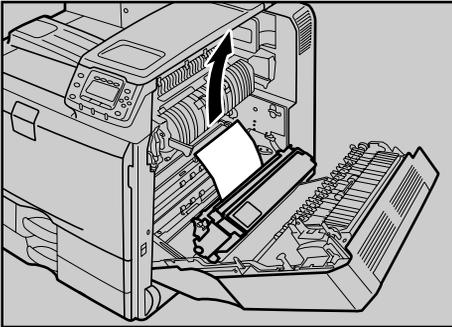
ATU098S

2. Remove misfed paper slowly.



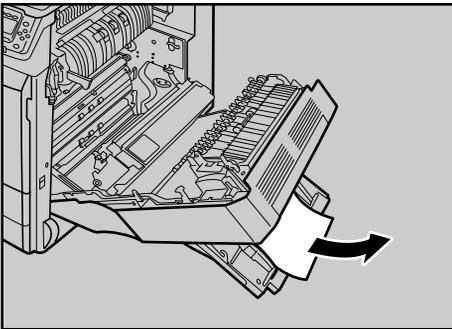
ASZ121S

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



ASZ122S

4. Remove the paper slowly from the bypass tray.



ASZ123S

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

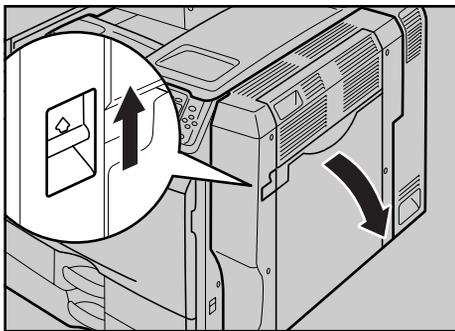
## Paper Misfeed Message (B)

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

### Important

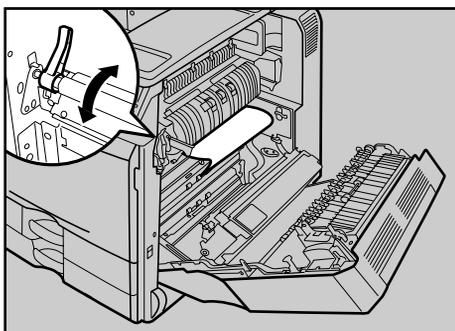
- The inside of this printer becomes very hot. Before removing paper around the fusing unit, wait until the temperature of the covers inside the fusing unit and duplex unit cool down.
- When removing misfed paper from the fusing unit, do not touch any parts other than those specified in this manual.
- When a paper misfeed (B) occurs, the paper tray is locked and cannot be pulled out. Do not forcefully pull out the tray.

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



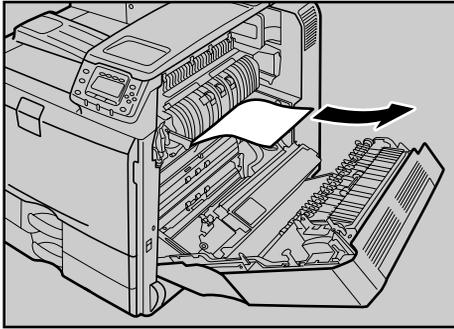
ATU098S

2. Turn the B1 lever five to eight times.



AS2124S

**3. Remove misfed paper slowly.**



ASZ125S

**4. Carefully close the right cover.**

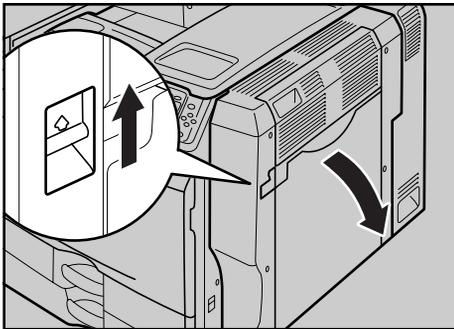
## Paper Misfeed Message (C)

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

### ★ Important

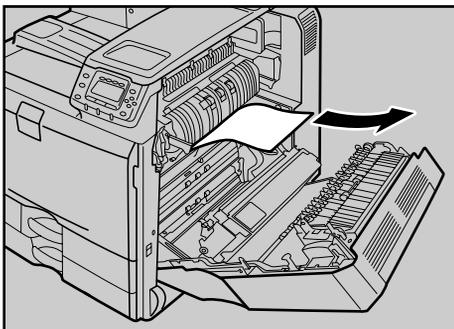
- The inside of this printer becomes very hot. Before removing paper around the fusing unit, wait until the temperature of the covers inside the fusing unit and duplex unit cool down.
- When removing misfed paper from the fusing unit, do not touch any parts other than those specified in this manual.
- When a paper misfeed (C) occurs, the paper tray is locked and cannot be pulled out. Do not forcefully pull out the tray.

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



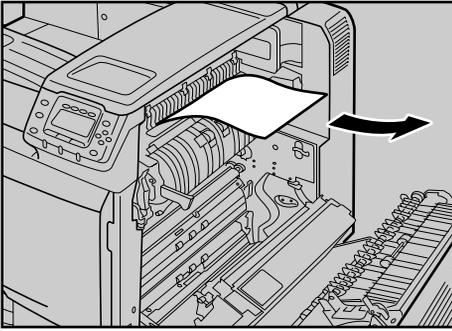
ATU098S

2. Remove misfed paper slowly.



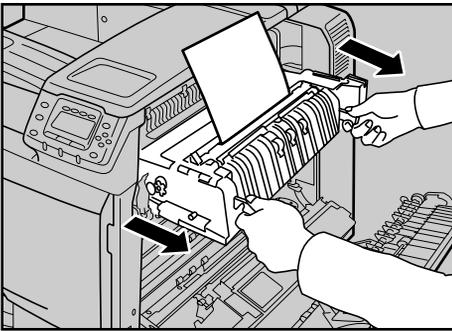
AS2125S

**3. Remove misfed paper slowly.**



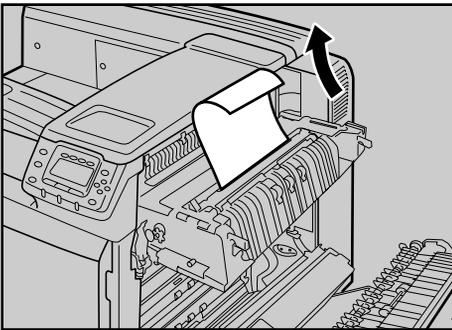
ASZ126S

**4. Holding the C1 levers, pull out the fusing unit.**



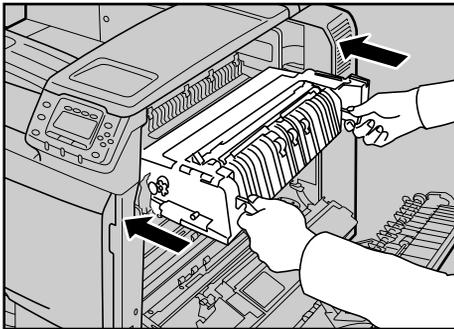
ASZ127S

**5. Raise the C2 lever and remove the paper carefully.**



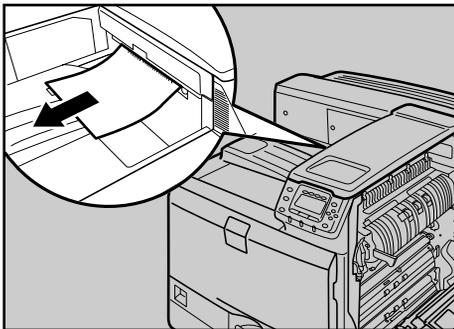
ASZ128S

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



ASZ2985

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



ATU0945

8. Carefully close the right cover.

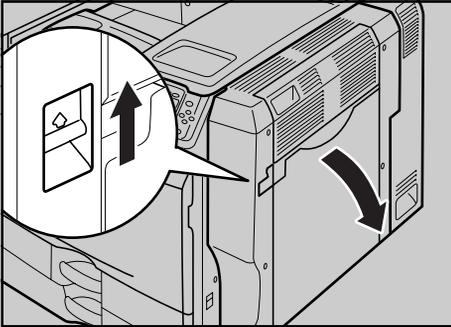
**Note**

- If the message indicating paper misfeed does not disappear, pull the fusing unit out and push it back in several times.

## Paper Misfeed Message (D)

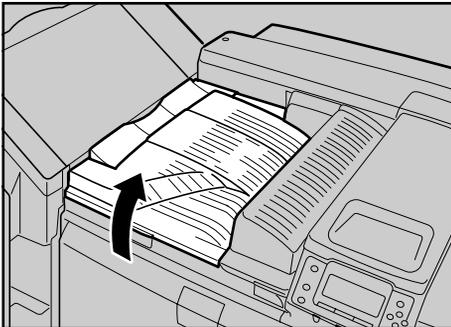
The  "Read instructions in Front Cover to remove." error message appears when a paper misfeed occurs while paper is being fed.

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



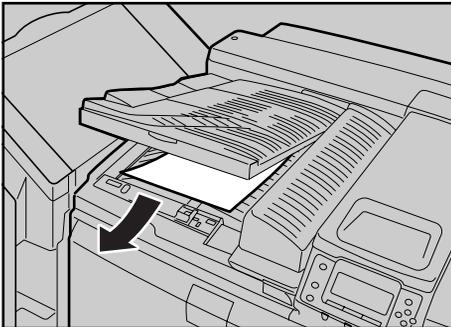
ATU098S

2. Open the left cover of the bridge unit.



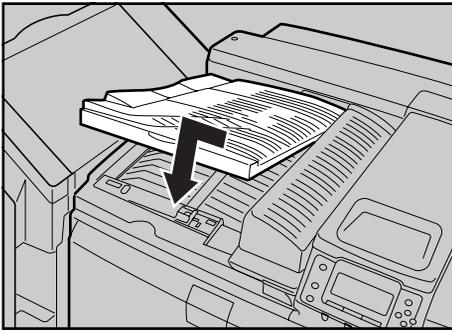
ASZ179S

3. Remove the paper.



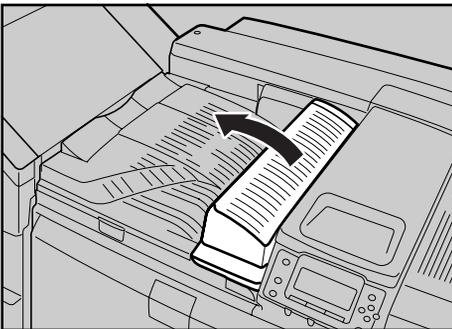
ASZ180S

4. Close the left cover of the bridge unit.



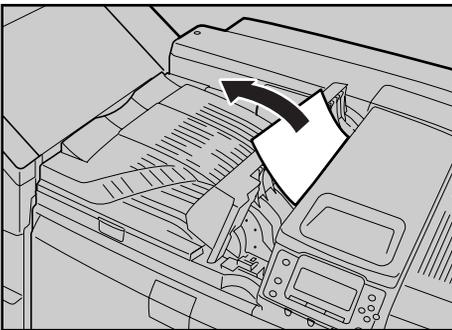
ASZ181S

5. If the paper could not be removed, open the right cover of the bridge unit.



ASZ182S

6. Remove the paper.



ASZ176S

7. Close the right cover of the bridge unit.
8. Carefully close the right cover.

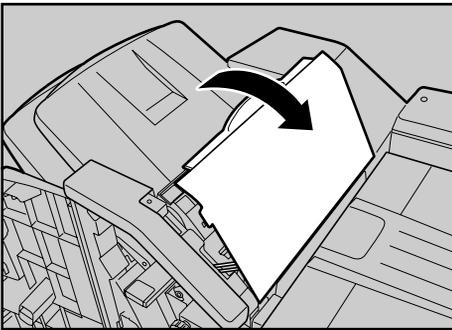
# Paper Misfeed Message (R)

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

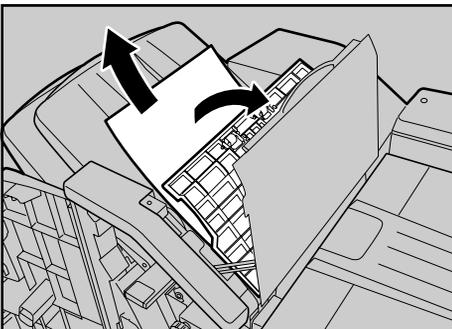
## When the Booklet Finisher is Installed

When R1, R2, or R3 is displayed.

1. Open the top cover of the finisher.

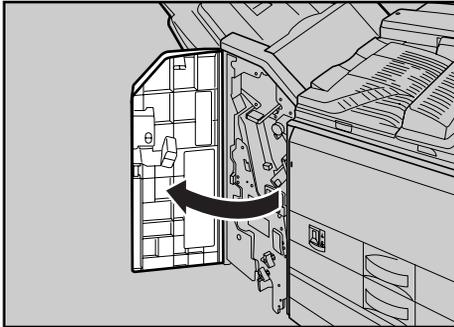


2. Raise the R1 lever and remove the paper.



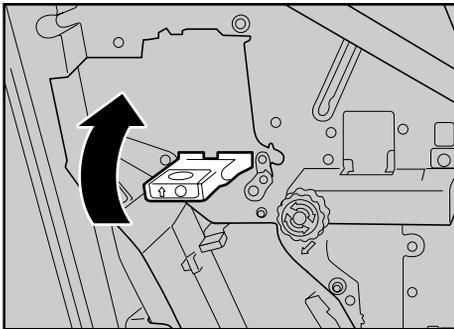
3. Return the R1 lever to its original position and close the top cover.

4. If the paper could not be removed, open the front cover of the finisher.



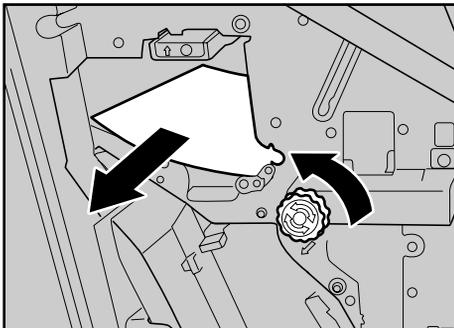
ASZ271S

5. Raise the R2 lever.



ASZ191S

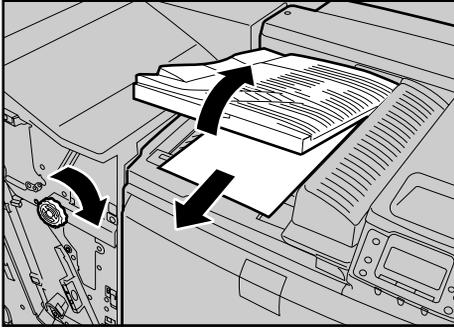
6. Turn the R3 knob counterclockwise to remove the paper.



ASZ192S

7. Return the R2 lever to its original position.

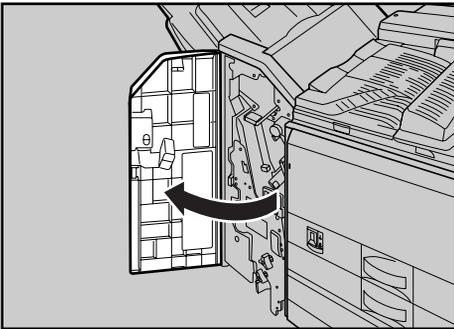
8. If the paper could not be removed, open the left cover of the bridge unit, and then turn the R3 knob clockwise to remove the paper.



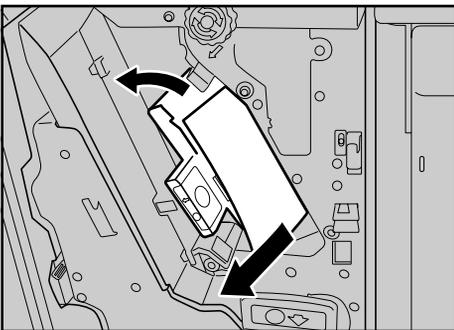
9. Close the left cover of the bridge unit and top cover of the finisher.

### When R4, R5, or R6 is displayed.

1. Open the front cover of the finisher.

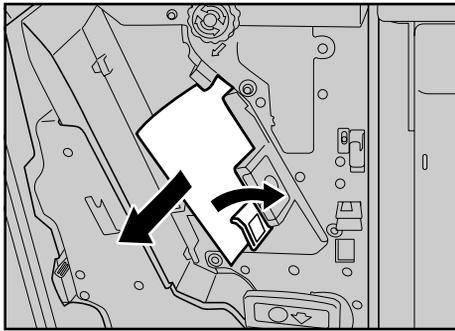


2. Open the R4 lever outward and remove the paper.

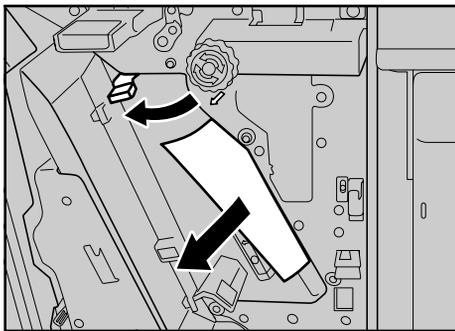


3. Return the R4 lever to its original position.

4. If the paper could not be removed, raise the R5 lever and remove the paper.



5. Return the R5 lever to its original position.
6. If the paper could not be removed, move the R6 lever and remove the paper.



7. Return the R6 lever to its original position.
8. Close the front cover of the finisher.

## 10

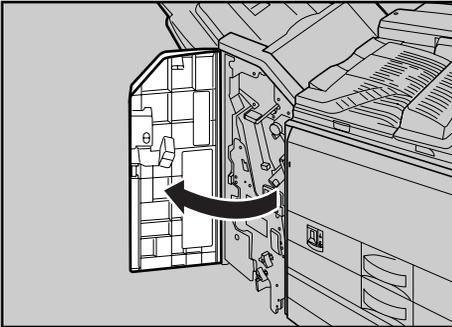
When R7, R8, R9, R10, or R11 is displayed.

---

### CAUTION

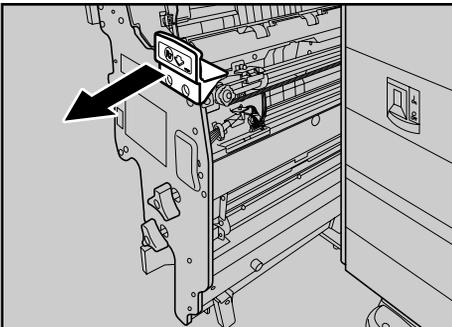
- Keep your hands clear of the booklet finisher tray when pulling out or pushing in the finisher's staple unit. You can trap your fingers if you do not.

1. Open the front cover of the finisher.



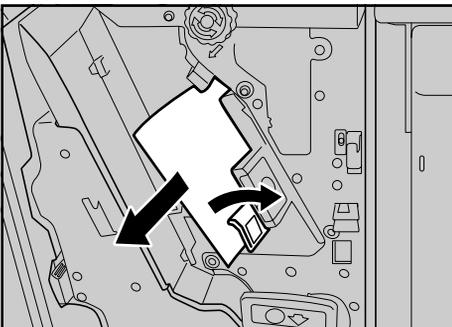
ASZ271S

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



ASZ186S

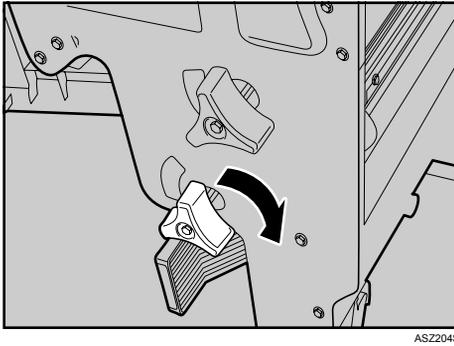
3. Pull the R8 lever and remove the paper.



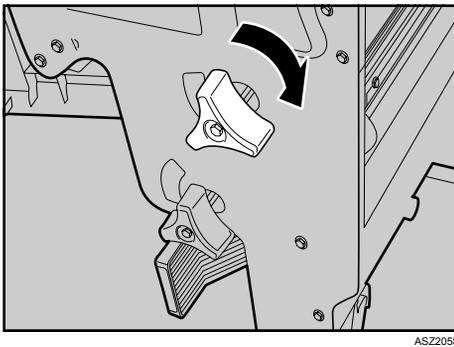
ASZ195S

4. Return the R8 lever to its original position.

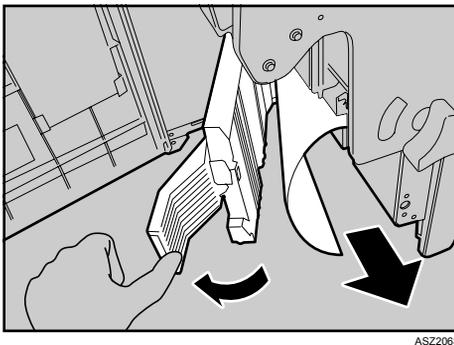
5. Turn the R9 lever clockwise.



6. Turn the R10 lever clockwise.



7. Push the R11 lever outward to remove the paper.



8. Return the R11 lever and reinstall the staple unit in.

9. Close the front cover of the finisher.

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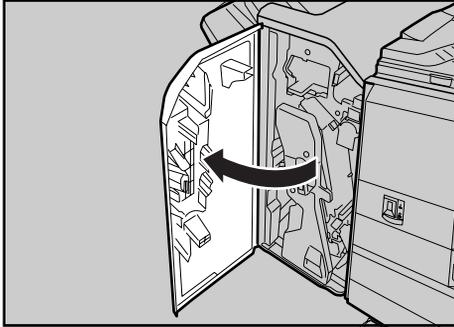
## When the 2 Tray Finisher is Installed

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

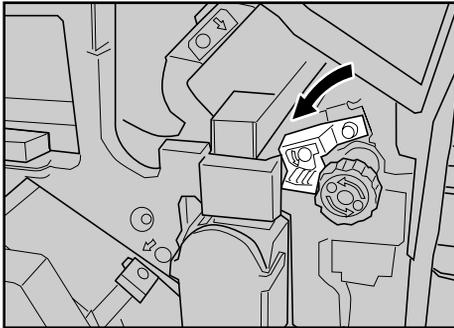
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1. Open the front cover of the finisher.



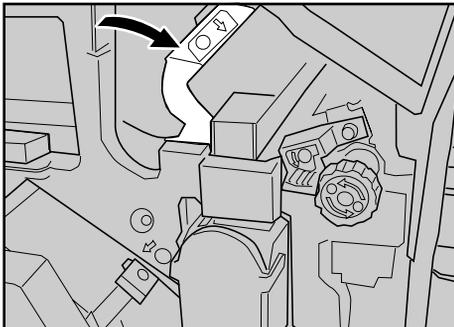
AS2272S

2. Turn the R1 lever counterclockwise.



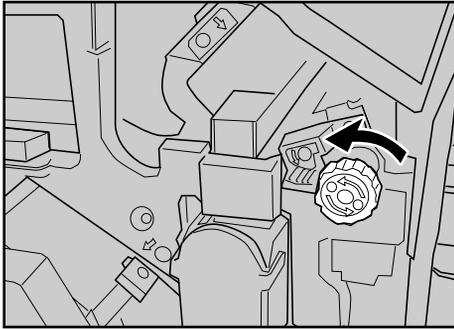
AS2207S

3. Open the R3 lever.



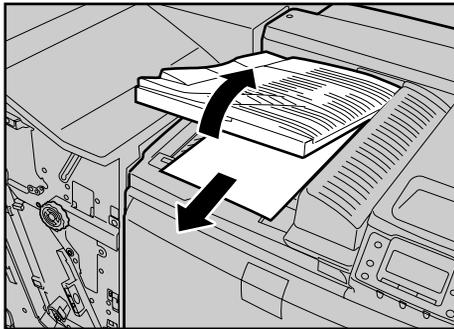
AS2208S

4. Turn the R2 lever counterclockwise.



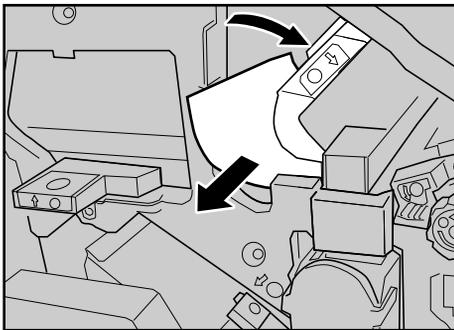
ASZ209S

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



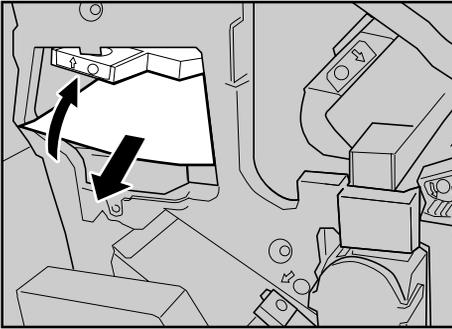
ASZ210S

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



ASZ211S

7. Raise the R4 lever up and remove the paper.

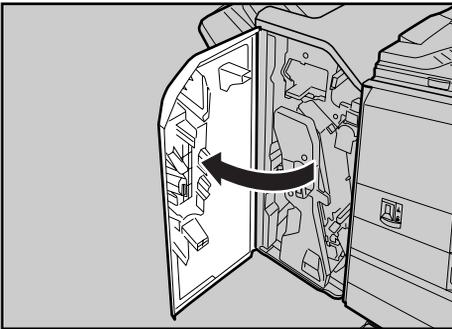


ASZ212S

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

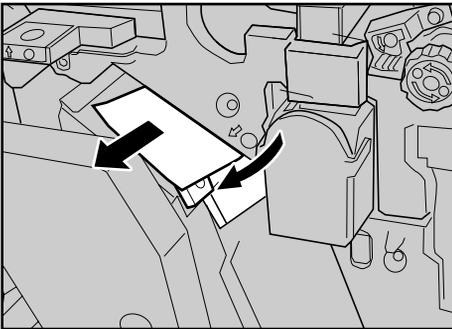
### When R5, R6, R7, or R8 is displayed.

1. Open the front cover of the finisher.



ASZ272S

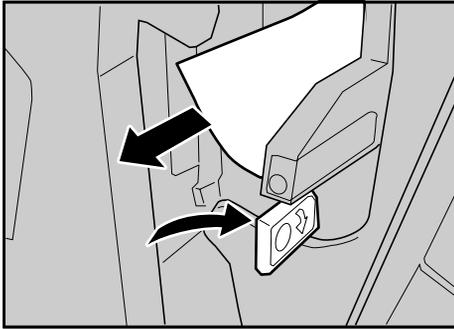
2. Push the R5 lever outward and remove the paper.



ASZ213S

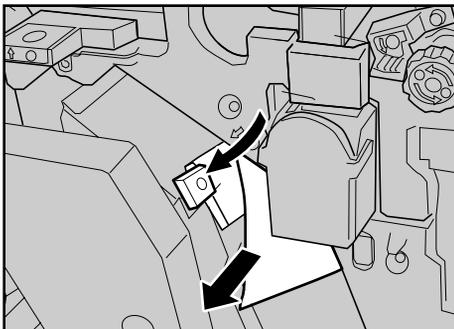
3. Return the R5 lever to its original position.

4. If the paper could not be removed, raise the R6 lever and remove the paper.



ASZ214S

5. Return the R6 lever to its original position.
6. Open the R3 lever.
7. Lower the R7 lever and remove the paper.



ASZ215S

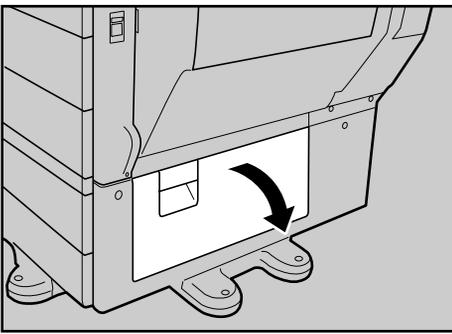
8. Return the R3 and R7 levers to their original positions.
9. Close the front cover of the finisher.

# Paper Misfeed Message (Y)

The  "Open the part as shown and remove paper." error message appears when a paper misfeed occurs in the paper feed section of an optional paper feed unit.

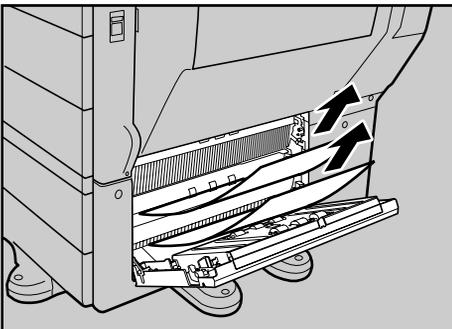
## Important

- When a paper misfeed (Y) occurs, the paper tray is locked and cannot be pulled out. Do not forcefully pull out the tray.
1. Open the cover on the right side of the paper feed unit or 2000-sheet paper feed unit carefully.



ASZ216S

2. Remove misfed paper slowly.



ASZ217S

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

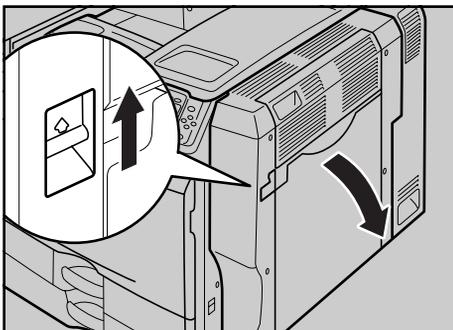
## Paper Misfeed Message (Z)

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

### ★ Important

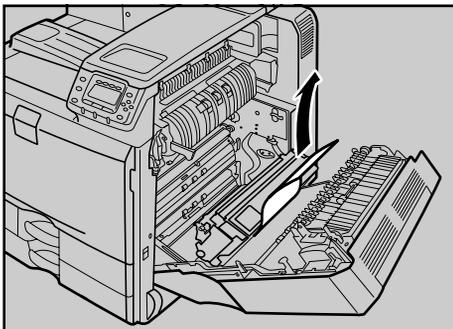
- The inside of this printer becomes very hot. Before removing paper around the fusing unit, wait until the temperature of the covers inside the fusing unit and duplex unit cool down.
- When a paper misfeed (Z) occurs, the paper tray is locked and cannot be pulled out. Do not forcefully pull out the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

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



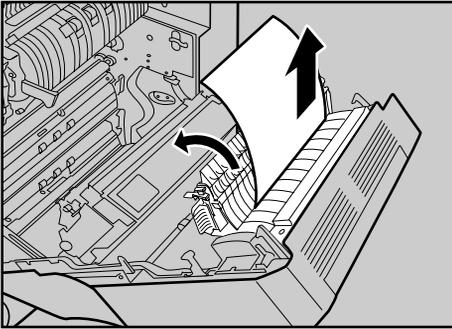
ATU098S

2. Remove misfed paper slowly.



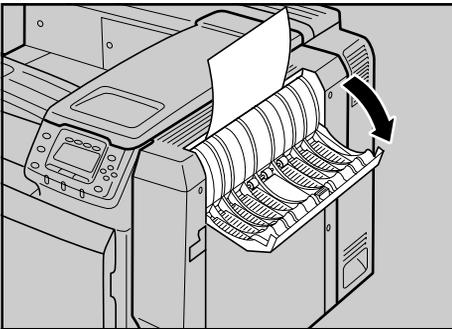
ASZ239S

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



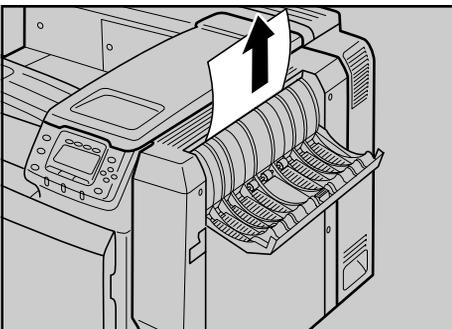
ASZ177S

4. Close the cover.
5. Carefully close the right cover.
6. Open the upper right cover.



ASZ178S

7. Remove misfed paper slowly.



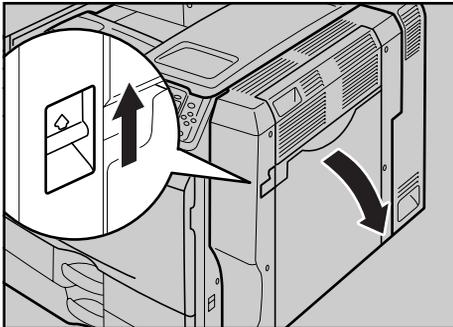
ASZ240S

8. Close the upper right cover.

## Duplex Print Always Misfeeds

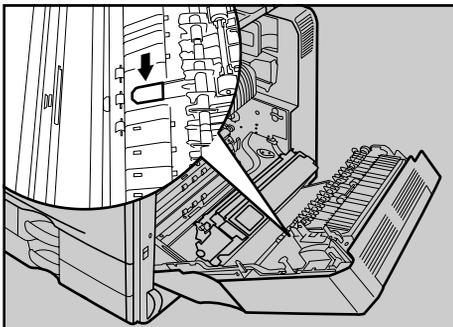
### ★ Important

- The inside of this printer becomes very hot. Before removing paper around the duplex units, wait until the covers inside the fusing unit and duplex unit cool down.
1. Push up the lever on the right side, and open the printer's right cover carefully.



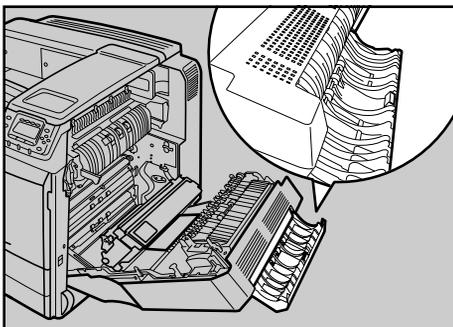
ATU098S

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



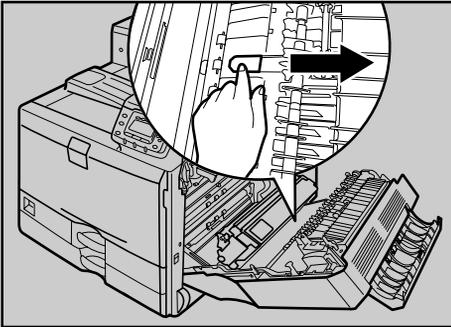
ASZ273S

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



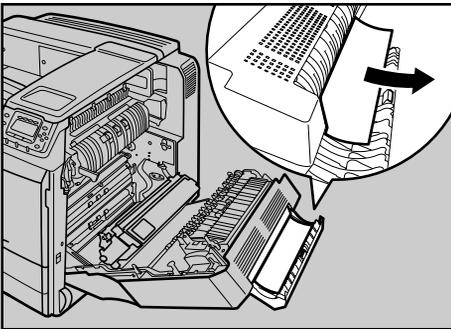
ASZ274S

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



ASZ275S

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



ASZ276S

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



# 11. Appendix

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## Moving and Transporting the Printer

### CAUTION

- Before moving the machine, unplug the power cord from the wall outlet. If the cord is unplugged abruptly, it could become damaged. Damaged plugs or cords can cause an electrical or fire hazard.
- When moving the machine, hold the handles at both sides, and then lift the printer slowly. Lifting it carelessly or dropping it may cause an injury.
- Disconnect the power plug (by pulling the plug, not the cable) if the power cable or plug becomes frayed or otherwise damaged.
- When moving the printer after use, do not take out any of the toners, photo conductor units, nor waste toner bottle to prevent toner spill inside the machine.

Repack the printer using its original packaging for transporting.

### Note

- The printer weighs approximately 95 kg (209 lb.).

### Important

- Be sure to disconnect all cables from the printer before transporting it.
- The printer is a piece of precision machinery. Take care to avoid damage during transportation.
- If optional paper feed units are attached, remove them from the printer and move them separately.

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## Moving the Printer

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### CAUTION

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

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## Moving the printer a short distance

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### Important

- Be sure to place the printer on a smooth and stable place.

**1. Be sure to check the following points:**

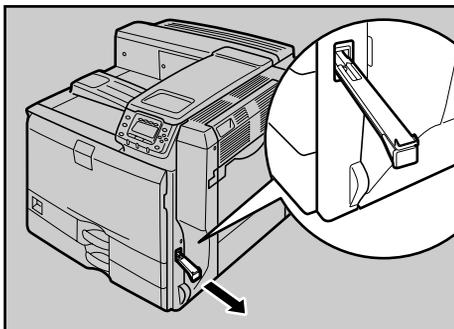
- The power switch is turned off.
- The power cable is unplugged from the wall outlet.
- The interface cable is unplugged from the printer.

**2. If any external options are attached, remove them.**

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

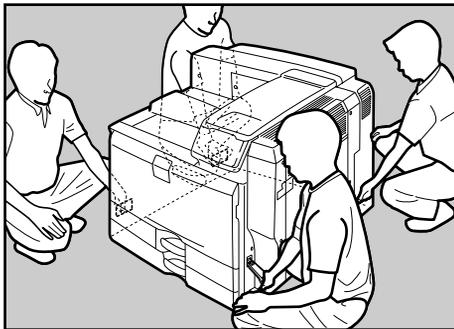
Pull out the handle from the right side of the printer.

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



ASZ076S

**4. Lift the printer with four people by using the handles on both sides of the printer, and then move it to the place where you want to install it, keeping it horizontal.**



ASZ077S

**5. If you removed options, reattach them.**

For details, see the relevant sections in this manual.

**Note**

- At least four people are required to lift the printer.
- Be sure to keep the printer horizontal while moving it. To prevent toner from being released, move the printer slowly.
- If optional paper feed units are attached, remove them from the printer and move them separately.

- When finished, return the handles to their original position.

# Consumables

## CAUTION

- 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

Toner	Average printable number of pages per container <sup>*1</sup>
Black	10,000 pages, 20,000 pages
Cyan	8,000 pages, 15,000 pages
Magenta	8,000 pages, 15,000 pages
Yellow	8,000 pages, 15,000 pages

<sup>\*1</sup> A4/Letter 5% test chart, two pages/job, printing in monochrome/color only. The number of printable pages varies depending on which of the two different types of toner you have installed.

### Note

- If toner containers are not changed when necessary, printing will become impossible. We recommend keeping a stock of containers.
- The actual number of printable pages varies depending on the image volume and density, number of pages to be printed at a time, paper type and paper size used, contents of print images, and environmental conditions such as temperature and humidity.
- Toner (consumable) is not covered by warranty. However, if there is a problem, contact the store where it was purchased.
- When you first use this printer, use the toner packaged with the printer.
- Toner may need to be changed sooner than indicated above due to deterioration over the period of use.
- Number of pages that can be printed using the toner supplied with this printer is 10,000 pages for black and 8,000 pages for cyan, magenta, yellow.

## Photo Conductor Unit

Name	Average printable number of pages <sup>*1</sup>
Black Drum Unit SP C811	40,000 pages
Color Drum Unit SP C811	40,000 pages

<sup>\*1</sup> A4/Letter 5% test chart, 2 pages/job, printing in monochrome/color only.

### ↓ 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, contents of print images, and environmental conditions such as temperature and humidity.
- If the photo conductor unit is not changed when necessary, print quality is not guaranteed. We recommend keeping a stock of photo conductor units.
- Photo conductor unit (consumables) are not covered by warranty. However, if there is a problem, contact the store where they were purchased.
- Photo conductors unit may need to be changed sooner than indicated above due to deterioration over the period of use.

## Waste Toner Bottle

Name	Average printable number of pages <sup>*1</sup>
Waste Toner Bottle SP C811	40,000 pages

<sup>\*1</sup> A4/Letter 5% test chart, 2 pages/job, printing in monochrome/color only.

### ↓ Note

- The actual number of printable pages varies depending on the used paper type and size, and environmental conditions.
- Waste toner bottles are consumables and not covered by warranty. However, if there is a problem, contact the store where they were purchased.

## Staple Cartridge

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

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

## Intermediate Transfer Unit

Name	Average printable number of pages <sup>*1</sup>
Transfer Unit SP C811	1,600,000 pages

<sup>\*1</sup> A4/Letter 5% test chart, 2 pages/job, printing in monochrome/color only.

### ↓ Note

- The actual number of printable pages varies depending on the image volume and density, number of pages to be printed at a time, paper type and paper size used, and environmental conditions such as temperature and humidity.
- If the transfer unit is not changed when necessary, the quality of printing is not guaranteed. We recommend keeping a stock of transfer unit or purchasing one soon. Transfer unit package contains dustproof filters.

## Fusing Unit

Name	Average printable number of pages <sup>*1</sup>
Fusing Unit SP C811	1,200,000 pages

<sup>\*1</sup> A4/Letter 5% test chart, 2 pages/job, printing in monochrome/color only.

### ↓ Note

- The actual number of printable pages varies depending on the image volume and density, number of pages to be printed at a time, paper type and paper size used, and environmental conditions such as temperature and humidity.
- If the fusing unit is not changed when necessary, print quality is not guaranteed. We recommend keeping a stock of fusing unit. A fusing unit package contains a transfer roller.

# Specifications

## Mainframe

### Configuration:

Desktop

### Print Process:

Laser beam scanning and Electrophotographic printing

Four-drums tandem method

### First Print Speed:

Monochrome: 8 seconds or less (A4, 8 1/2 × 11 (Letter))

Color: 9 seconds or less (A4, 8 1/2 × 11 (Letter))

#### Note

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

### Printing Speed:

Monochrome: maximum 40 pages per minute (A4, 8 1/2 × 11 (Letter))

Color: maximum 40 pages per minute (A4, 8 1/2 × 11 (Letter))

### Interfaces:

Standard:

- Ethernet (10BASE-T/100BASE-TX)
- USB 2.0

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

Optional:

- IEEE 802.11b (Wireless LAN)
- Parallel (Bidirectional IEEE 1284)
- Bluetooth
- Gigabit Ethernet (1000BASE-T)
- USB Host

### Resolution:

600 dpi 4 bit

600 dpi 2 bit

600 dpi 1 bit

300 dpi 1 bit

**Printer Language:**

PJL, RPCS, PCL5c/XL, PS3/PDF

**Fonts:**

PCL 5c/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)

**Paper Size:**

See p.81 "Paper and Other Media"

**Paper Weight:**

See p.81 "Paper and Other Media"

**Media Type:**

See p.81 "Paper and Other Media"

**Power Source:**

**220-240V**

220~240 V, 50/60 Hz, 8 A or more

**120V**

120 V, 60 Hz, 12 A or more

**Power Consumption:**

**220-240V**

Printing	1440 W or less (Unplug the power cable to turn off the power completely.)
Energy saver mode	26.3 W

**120V**

Printing	1440 W or less (Unplug the power cable to turn off the power completely.)
Energy saver mode	21 W

**Noise Emission:**

During Printing: 66 db (A) or less

Standby: 39 db (A) or less

**Dimensions (W × D × H):**

670 × 670 × 640 mm (26.4 × 26.4 × 25.2 inches)

**Weight:**

Approximately 95 kg (209.5 lb.)

**Warm-up Time:**

Less than 60 seconds (23 °C, 73 °F)

**Paper Capacity:**

Standard Paper Tray	550 sheets × 2 trays
Bypass Tray	100 sheets

**Memory:**

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

**Network:**

Topology: The physical or logical layout of the nodes (devices) in a network. (10BASE-T/100BASE-TX)

Protocol: TCP/IP, IPX/SPX, AppleTalk

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**Options**


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**Tray Unit TK3000/Paper Feed Unit PB3000**


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**Paper Size:**

A3, B4 JIS, A4, B5 JIS, A5, 8<sup>1</sup>/<sub>2</sub> × 11 (Letter)

11 × 17, 8<sup>1</sup>/<sub>2</sub> × 14 (Legal), 7<sup>1</sup>/<sub>4</sub> × 10<sup>1</sup>/<sub>2</sub> (Executive), 8 × 13 (F/GL), 8<sup>1</sup>/<sub>2</sub> × 13 (Foolscap), 8<sup>1</sup>/<sub>4</sub> × 13 (Folio), 8K, 16K

Custom Size: 182 to 297 mm (7.17 to 11.69 inches) in width, 148 to 432 mm (5.83 to 17 inches) in length

**Dimensions (W × D × H):**

Tray Unit TK3000	580 × 620 × 120 mm (22.9 × 24.4 × 4.8 inches)
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Paper Feed Unit PB3000	580 × 620 × 260 mm (22.9 × 24.4 × 10.3 inches)
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**Paper Capacity:**

Tray Unit TK3000	550 sheets (80 g/m <sup>2</sup> , 20 lb.)
Paper Feed Unit PB3000	550 sheets × 2 (80 g/m <sup>2</sup> , 20 lb.)

**Weight:**

Tray Unit TK3000	15 kg (33.1 lb.) or less
Paper Feed Unit PB3000	25 kg (55.2 lb.) or less

**Power Consumption:**

50 W or less

**LCIT PB3010****Paper Size:****220-240V**A4<sup>□</sup> (To set 8<sup>1</sup>/<sub>2</sub> × 11 (Letter)<sup>□</sup>, contact your sales or service representative.)**120V**8<sup>1</sup>/<sub>2</sub> × 11 (Letter)<sup>□</sup> (To set A4<sup>□</sup>, contact your sales or service representative.)**Dimensions (W × D × H):**

580 × 620 × 260 mm (22.9 × 24.4 × 10.3 inches)

**Paper Capacity:**1000 sheets × 2 (80 g/m<sup>2</sup>, 20 lb.)**Weight:**

25 kg (55.2 lb.) or less

**Power Consumption:**

50 W or less

**Booklet Finisher SR3000**

[Finisher Upper Tray]

**Paper Size:**

A3, B4 JIS, A4, B5 JIS, A5, B6 JIS, A6, 12 × 18, 11 × 17, 8<sup>1</sup>/<sub>2</sub> × 14 (Legal), 8<sup>1</sup>/<sub>2</sub> × 11 (Letter),  
 5<sup>1</sup>/<sub>2</sub> × 8<sup>1</sup>/<sub>2</sub>, 7<sup>1</sup>/<sub>4</sub> × 10<sup>1</sup>/<sub>2</sub> (Executive), 8 × 13 (F/GL), 8<sup>1</sup>/<sub>2</sub> × 13 (Foolscap), 8<sup>1</sup>/<sub>4</sub> × 13 (Folio), 8K, 16K

**Paper Weight:**

52 to 105 g/m<sup>2</sup> (14 to 28 lb.)

**Stack Capacity:**

- 100 sheets for the following paper sizes (80g/m<sup>2</sup>, 20lb.):  
 A4, B5 JIS, A5, B6 JIS, A6, 8<sup>1</sup>/<sub>2</sub> × 11 (Letter),  
 5<sup>1</sup>/<sub>2</sub> × 8<sup>1</sup>/<sub>2</sub>, 7<sup>1</sup>/<sub>4</sub> × 10<sup>1</sup>/<sub>2</sub> (Executive), 8 × 13 (F/GL), 8<sup>1</sup>/<sub>2</sub> × 13 (Foolscap),  
 8<sup>1</sup>/<sub>4</sub> × 13 (Folio), 16K
- 50 sheets for the following paper sizes (80g/m<sup>2</sup>, 20lb.):  
 A3, B4 JIS, 12 × 18, 11 × 17, 8<sup>1</sup>/<sub>2</sub> × 14 (Legal), 8K

[Finisher Shift Tray]

**Paper Size:**

A3, B4 JIS, A4, B5 JIS, A5, B6 JIS, A6, 12 × 18, 11 × 17, 8<sup>1</sup>/<sub>2</sub> × 14 (Legal), 8<sup>1</sup>/<sub>2</sub> × 11 (Letter),  
 5<sup>1</sup>/<sub>2</sub> × 8<sup>1</sup>/<sub>2</sub>, 7<sup>1</sup>/<sub>4</sub> × 10<sup>1</sup>/<sub>2</sub> (Executive), 8 × 13 (F/GL), 8<sup>1</sup>/<sub>2</sub> × 13 (Foolscap), 8<sup>1</sup>/<sub>4</sub> × 13 (Folio), 8K, 16K

**Paper Weight:**

52 to 250 g/m<sup>2</sup> (14 to 67 lb.)

**Stack Capacity:****No staple:**

- 1000 sheets for the following paper sizes (80g/m<sup>2</sup>, 20lb.):  
 A4, B5 JIS, A5, B6 JIS, A6, 8<sup>1</sup>/<sub>2</sub> × 11 (Letter),  
 5<sup>1</sup>/<sub>2</sub> × 8<sup>1</sup>/<sub>2</sub>, 7<sup>1</sup>/<sub>4</sub> × 10<sup>1</sup>/<sub>2</sub> (Executive), 8 × 13 (F/GL), 8<sup>1</sup>/<sub>2</sub> × 13 (Foolscap),  
 8<sup>1</sup>/<sub>4</sub> × 13 (Folio), 16K
- 500 sheet for the following paper sizes (80g/m<sup>2</sup>, 20lb.):  
 A3, B4 JIS, 12 × 18, 11 × 17, 8<sup>1</sup>/<sub>2</sub> × 14 (Legal), 8K

**Staple:**

- 2 to 9 sheets, 100 sets for the following paper sizes (80g/m<sup>2</sup>, 20lb.):  
 A4, B5 JIS, 8<sup>1</sup>/<sub>2</sub> × 11 (Letter), 7<sup>1</sup>/<sub>4</sub> × 10<sup>1</sup>/<sub>2</sub> (Executive), 16K
- 10 to 50 sheets, 100 to 20 sets for the following paper sizes (80g/m<sup>2</sup>, 20lb.):  
 A4, B5 JIS, 8<sup>1</sup>/<sub>2</sub> × 11 (Letter), 7<sup>1</sup>/<sub>4</sub> × 10<sup>1</sup>/<sub>2</sub> (Executive), 16K

- 2 to 9 sheets, 50 sets for the following paper sizes (80g/m<sup>2</sup>, 20lb.):  
A3, B4 JIS, 11 × 17, 8<sup>1</sup>/<sub>2</sub> × 14 (Legal), 8 × 13 (F/GL), 8<sup>1</sup>/<sub>2</sub> × 13 (Foolscap), 8<sup>1</sup>/<sub>4</sub> × 13 (Folio), 8K
- 10 to 30 sheets, 50 to 10 sets for the following paper sizes (80g/m<sup>2</sup>, 20lb.):  
A3, B4 JIS, 11 × 17, 8<sup>1</sup>/<sub>2</sub> × 14 (Legal), 8 × 13 (F/GL), 8<sup>1</sup>/<sub>2</sub> × 13 (Foolscap), 8<sup>1</sup>/<sub>4</sub> × 13 (Folio), 8K

**Staple Capacity:**

- 2 to 50 sheets for the following paper sizes (80g/m<sup>2</sup>, 20lb.):  
A4, B5 JIS, 8<sup>1</sup>/<sub>2</sub> × 11 (Letter), 7<sup>1</sup>/<sub>4</sub> × 10<sup>1</sup>/<sub>2</sub> (Executive), 16K
- 2 to 30 sheets for the following paper sizes (80g/m<sup>2</sup>, 20lb.):  
A3, B4 JIS, 11 × 17, 8<sup>1</sup>/<sub>2</sub> × 14 (Legal), 8 × 13 (F/GL), 8<sup>1</sup>/<sub>2</sub> × 13 (Foolscap), 8<sup>1</sup>/<sub>4</sub> × 13 (Folio), 8K

**Staple Paper Size:**

A3, B4 JIS, A4, B5 JIS, 11 × 17, 8<sup>1</sup>/<sub>2</sub> × 14 (Legal), 8<sup>1</sup>/<sub>2</sub> × 11 (Letter), 7<sup>1</sup>/<sub>4</sub> × 10<sup>1</sup>/<sub>2</sub> (Executive), 8 × 13 (F/GL), 8<sup>1</sup>/<sub>2</sub> × 13 (Foolscap), 8<sup>1</sup>/<sub>4</sub> × 13 (Folio), 8K, 16K

**Staple Paper Weight:**

60 to 90 g/m<sup>2</sup> (16 to 24 lb.)

**Staple Position:**

- 1 staple - 2 positions
- 2 staples - 2 positions

[Finisher Booklet Tray]

**Paper Size:**

A3, B4 JIS, A4, B5 JIS, 11 × 17, 8<sup>1</sup>/<sub>2</sub> × 14 (Legal), 8<sup>1</sup>/<sub>2</sub> × 11 (Letter)

**Stack Capacity:**

- 2 to 5 sheets: 30 sets
- 6 to 10 sheets: 15 sets

**Power Consumption:**

Approximately 60 W (power supplied from the main unit)

**Dimensions:**

535 × 600 × 930 mm (21.1 × 23.7 × 36.7 inches)

**Weight:**

Approximately 48 kg (105.9 lb.)

## Finisher SR3030

[Finisher Upper Tray]

### Paper Size:

A3, B4 JIS, A4, B5 JIS, A5, B6 JIS, A6, 12 × 18, 11 × 17, 8<sup>1</sup>/<sub>2</sub> × 14 (Legal), 8<sup>1</sup>/<sub>2</sub> × 11 (Letter), 5<sup>1</sup>/<sub>2</sub> × 8<sup>1</sup>/<sub>2</sub>, 7<sup>1</sup>/<sub>4</sub> × 10<sup>1</sup>/<sub>2</sub> (Executive), 8 × 13 (F/GL), 8<sup>1</sup>/<sub>2</sub> × 13 (Foolscap), 8<sup>1</sup>/<sub>4</sub> × 13 (Folio), 8K, 16K

### Paper Weight:

52 to 163 g/m<sup>2</sup> (14 to 43 lb.)

### Stack Capacity:

- 250 sheets for the following paper sizes (80g/m<sup>2</sup>, 20lb.):  
A4, B5 JIS, A5, B6 JIS, A6, 8<sup>1</sup>/<sub>2</sub> × 11 (Letter), 5<sup>1</sup>/<sub>2</sub> × 8<sup>1</sup>/<sub>2</sub>, 7<sup>1</sup>/<sub>4</sub> × 10<sup>1</sup>/<sub>2</sub> (Executive), 8 × 13 (F/GL), 8<sup>1</sup>/<sub>2</sub> × 13 (Foolscap), 8<sup>1</sup>/<sub>4</sub> × 13 (Folio), 16K
- 50 sheets for the following paper sizes (80g/m<sup>2</sup>, 20lb.):  
A3, B4 JIS, 12 × 18, 11 × 17, 8<sup>1</sup>/<sub>2</sub> × 14 (Legal), 8K

[Finisher Shift Tray]

### Paper Size:

A3, B4 JIS, A4, B5 JIS, A5, B6 JIS, A6, 12 × 18, 11 × 17, 8<sup>1</sup>/<sub>2</sub> × 14 (Legal), 8<sup>1</sup>/<sub>2</sub> × 11 (Letter), 5<sup>1</sup>/<sub>2</sub> × 8<sup>1</sup>/<sub>2</sub>, 7<sup>1</sup>/<sub>4</sub> × 10<sup>1</sup>/<sub>2</sub> (Executive), 8 × 13 (F/GL), 8<sup>1</sup>/<sub>2</sub> × 13 (Foolscap), 8<sup>1</sup>/<sub>4</sub> × 13 (Folio), Com10, Monarch, C6, C5, DL Env, 8K, 16K

### Paper Weight:

52 to 256 g/m<sup>2</sup> (14 to 68 lb.)

### Stack Capacity:

#### No Staple:

- 3,000 sheets for the following paper sizes (80g/m<sup>2</sup>, 20lb.):  
A4, 8<sup>1</sup>/<sub>2</sub> × 11 (Letter)
- 1,500 sheets for the following paper sizes (80g/m<sup>2</sup>, 20lb.):  
A3, A4, B4 JIS, B5 JIS, 12 × 18, 11 × 17, 8<sup>1</sup>/<sub>2</sub> × 14 (Legal), 8<sup>1</sup>/<sub>2</sub> × 11 (Letter), 7<sup>1</sup>/<sub>4</sub> × 10<sup>1</sup>/<sub>2</sub> (Executive), 8 × 13 (F/GL), 8<sup>1</sup>/<sub>2</sub> × 13 (Foolscap), 8<sup>1</sup>/<sub>4</sub> × 13 (Folio), Com10, Monarch, C6, C5, DL Env, 8K, 16K
- 500 sheets for A5 (80 g/m<sup>2</sup>, 20 lb.)

- 100 sheets for the following paper sizes (80g/m<sup>2</sup>, 20lb.):

A5□, B6 JIS□, A6□, 5<sup>1</sup>/<sub>2</sub> × 8<sup>1</sup>/<sub>2</sub>□

#### Staple:

- 2 to 19 sheets, 150 sets for the following paper sizes (80g/m<sup>2</sup>, 20lb.):

A4□, 8<sup>1</sup>/<sub>2</sub> × 11 (Letter)□, 7<sup>1</sup>/<sub>4</sub> × 10<sup>1</sup>/<sub>2</sub> (Executive)□

- 20 to 50 sheets, 150 to 60 sets for the following paper sizes (80g/m<sup>2</sup>, 20lb.):

A4□, 8<sup>1</sup>/<sub>2</sub> × 11 (Letter)□, 7<sup>1</sup>/<sub>4</sub> × 10<sup>1</sup>/<sub>2</sub> (Executive)□

- 2 to 14 sheets, 100 sets for the following paper sizes (80g/m<sup>2</sup>, 20lb.):

A4□, B5 JIS□, 8<sup>1</sup>/<sub>2</sub> × 11 (Letter)□, 7<sup>1</sup>/<sub>4</sub> × 10<sup>1</sup>/<sub>2</sub> (Executive)□, 16K□

- 15 to 50 sheets, 100 to 30 sets for the following paper sizes (80g/m<sup>2</sup>, 20lb.):

A4□, B5 JIS□, 8<sup>1</sup>/<sub>2</sub> × 11 (Letter)□, 7<sup>1</sup>/<sub>4</sub> × 10<sup>1</sup>/<sub>2</sub> (Executive)□, 16K□

- 2 to 14 sheets, 100 sets for the following paper sizes (80g/m<sup>2</sup>, 20lb.):

A3□, B4 JIS□, 11 × 17□, 8<sup>1</sup>/<sub>2</sub> × 14 (Legal)□, 8 × 13 (F/GL)□, 8<sup>1</sup>/<sub>2</sub> × 13 (Foolscap)□, 8<sup>1</sup>/<sub>4</sub> × 13 (Folio)□, 8K□

- 15 to 30 sheets, 100 to 33 sets for the following paper sizes (80g/m<sup>2</sup>, 20lb.):

A3□, B4 JIS□, 11 × 17□, 8<sup>1</sup>/<sub>2</sub> × 14 (Legal)□, 8 × 13 (F/GL)□, 8<sup>1</sup>/<sub>2</sub> × 13 (Foolscap)□, 8<sup>1</sup>/<sub>4</sub> × 13 (Folio)□, 8K□

#### Staple Capacity:

##### Without Mixed Size:

- 50 sheets for the following paper sizes (80g/m<sup>2</sup>, 20lb.):

A4□, B5 JIS□, 8<sup>1</sup>/<sub>2</sub> × 11 (Letter)□, 7<sup>1</sup>/<sub>4</sub> × 10<sup>1</sup>/<sub>2</sub> (Executive)□, 16K□

- 30 sheets for the following paper sizes (80g/m<sup>2</sup>, 20lb.):

A3□, B4 JIS□, 11 × 17□, 8<sup>1</sup>/<sub>2</sub> × 14 (Legal)□, 8 × 13 (F/GL)□, 8<sup>1</sup>/<sub>2</sub> × 13 (Foolscap)□, 8<sup>1</sup>/<sub>4</sub> × 13 (Folio)□, 8K□

##### With Mixed Size:

- 30 sheets for the following paper sizes (80g/m<sup>2</sup>, 20lb.):

A3□/A4□, B4 JIS□/B5 JIS□, 11 × 17□/8<sup>1</sup>/<sub>2</sub> × 11 (Letter)□

#### Staple Paper Size:

A3□, B4 JIS□, A4□, B5 JIS□, 11 × 17□, 8<sup>1</sup>/<sub>2</sub> × 14 (Legal)□, 8<sup>1</sup>/<sub>2</sub> × 11 (Letter)□, 7<sup>1</sup>/<sub>4</sub> × 10<sup>1</sup>/<sub>2</sub> (Executive)□, 8 × 13 (F/GL)□, 8<sup>1</sup>/<sub>2</sub> × 13 (Foolscap)□, 8<sup>1</sup>/<sub>4</sub> × 13 (Folio)□, 8K□, 16K□

#### Staple Paper Weight:

64 to 90 g/m<sup>2</sup> (17 to 24 lb.)

**Staple Positions**

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

**Power Consumption:**

Approximately 96 W

**Dimensions:**

657 × 613 × 960 mm (25.9 × 24.2 × 37.8 inches)

**Weight:**

Approximately 54 kg (119.1 lb.)

**Gigabit Ethernet Board Type A**

---

**Interface Connector:**

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

USB 2.0

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

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

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

**Protocol:**

TCP/IP, IPX/SPX, AppleTalk

**Maximum Length of Cable Between Devices:**

Ethernet: 100 m

USB: 5 m

**USB Host Interface Unit Type A**

---

**Interface Connector:**

USB 2.0 host interface A type

**Data Transmission Speed:**

12 Mbps (Full speed)

**Maximum Length of Cable Between Devices:**

2.5 m

## IEEE 802.11b Interface Unit Type H

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**220-240V**

### Transmission Specification:

Based on IEEE 802.11 b (Wireless LAN)

### Protocol:

IPv4, IPv6, IPX/SPX, AppleTalk

#### Note

- SmartDeviceMonitor and Web Image Monitor are supported.

### Data Transfer Speed:

Selected automatically from the speeds below:

1 Mbps, 2 Mbps, 5.5 Mbps, 11 Mbps

### Frequency Range:

2412 to 2472 MHz (Channels 1 to 13)

### Transmission Distance

1 Mbps: 400 m

2 Mbps: 270 m

5.5 Mbps: 200 m

11 Mbps: 140 m

These figures are a guideline for outdoor use. In general, the transmittable distance indoors is 10 to 100 m, depending on the environment.

### Transmission Mode:

Ad hoc and infrastructure mode

## IEEE 802.11b Interface Unit Type I

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**120V**

### Transmission Specification:

Based on IEEE 802.11 b (Wireless LAN)

### Protocol:

IPv4, IPv6, IPX/SPX, AppleTalk

#### Note

- SmartDeviceMonitor and Web Image Monitor are supported.

**Data Transfer Speed:**

Selected automatically from the speeds below:

1 Mbps, 2 Mbps, 5.5 Mbps, 11 Mbps

**Frequency Range:**

2412 to 2462 MHz (1 to 11 channels)

**Transmittable Distance:**

1 Mbps: 400 m

2Mbps: 270 m

5.5 Mbps: 200 m

11 Mbps: 140 m

These figures are a guideline for outdoor use. In general, the transmittable distance indoors is 10 to 100 m, depending on the environment.

**Transmission Mode:**

Ad hoc and infrastructure mode

**Bluetooth Interface Unit Type 3245**

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**Supported Profiles:**

SPP (Serial Port Profile), HCRP (Hardcopy Cable Replacement Profile), BIP (Basic Imaging Profile)

**Frequency Range:**

2.45 GHz ISM band

**Data Transmission Speed:**

723 kbps

**Note**

- The transmission speed is adjusted according to factors such as the distance and obstacles between the devices, radio signal condition and Bluetooth adaptor.

**Maximum Range:**

10 m

**IEEE 1284 Interface Board Type A**

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**Transmission Specification:**

IEEE 1284

**Required Cable:**

Standard IEEE 1284-compliant Micro Getronics 36-pin cable

## Punch Unit (Booklet Finisher SR3000)

### Paper size:

#### 2 and 3 holes type

2 holes	A3, B4 JIS, A4, B5 JIS, A5, 11 × 17, 8 <sup>1</sup> / <sub>2</sub> × 14 (Legal), 8 <sup>1</sup> / <sub>2</sub> × 11 (Letter), 7 <sup>1</sup> / <sub>4</sub> × 10 <sup>1</sup> / <sub>2</sub> (Executive), 8 × 13 (F/GL), 8 <sup>1</sup> / <sub>2</sub> × 13 (Foolscap), 8 <sup>1</sup> / <sub>4</sub> × 13 (Folio), 8K, 16K
3 holes	A3, B4 JIS, A4, B5 JIS, 11 × 17, 8 <sup>1</sup> / <sub>2</sub> × 11 (Letter), 7 <sup>1</sup> / <sub>4</sub> × 10 <sup>1</sup> / <sub>2</sub> (Executive), 8K, 16K

#### 2 and 4 holes type

2 holes	A3, B4 JIS, A4, B5 JIS, A5, 11 × 17, 8 <sup>1</sup> / <sub>2</sub> × 14 (Legal), 8 <sup>1</sup> / <sub>2</sub> × 11 (Letter), 7 <sup>1</sup> / <sub>4</sub> × 10 <sup>1</sup> / <sub>2</sub> (Executive), 8 × 13 (F/GL), 8 <sup>1</sup> / <sub>2</sub> × 13 (Foolscap), 8 <sup>1</sup> / <sub>4</sub> × 13 (Folio), 8K, 16K
4 holes	A3, B4 JIS, A4, B5 JIS, 11 × 17, 8 <sup>1</sup> / <sub>2</sub> × 11 (Letter), 7 <sup>1</sup> / <sub>4</sub> × 10 <sup>1</sup> / <sub>2</sub> (Executive), 8K, 16K

#### 4 holes type

4 holes	A3, B4 JIS, A4, B5 JIS, A5, 11 × 17, 8 <sup>1</sup> / <sub>2</sub> × 14 (Legal), 8 <sup>1</sup> / <sub>2</sub> × 11 (Letter), 7 <sup>1</sup> / <sub>4</sub> × 10 <sup>1</sup> / <sub>2</sub> (Executive), 8 × 13 (F/GL), 8 <sup>1</sup> / <sub>2</sub> × 13 (Foolscap), 8 <sup>1</sup> / <sub>4</sub> × 13 (Folio), 8K, 16K
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### Paper weight:

52 to 163 g/m<sup>2</sup> (14 to 43 lb.)

## Punch Unit (Finisher SR3030)

### Paper size:

#### 2 and 3 holes type

2 holes	A3, B4 JIS, A4, B5 JIS, A5, 11 × 17, 8 <sup>1</sup> / <sub>2</sub> × 14 (Legal), 8 <sup>1</sup> / <sub>2</sub> × 11 (Letter), 7 <sup>1</sup> / <sub>4</sub> × 10 <sup>1</sup> / <sub>2</sub> (Executive), 8 × 13 (F/GL), 8 <sup>1</sup> / <sub>2</sub> × 13 (Foolscap), 8 <sup>1</sup> / <sub>4</sub> × 13 (Folio), 8K, 16K
3 holes	A3, B4 JIS, A4, B5 JIS, 11 × 17, 8 <sup>1</sup> / <sub>2</sub> × 11 (Letter), 7 <sup>1</sup> / <sub>4</sub> × 10 <sup>1</sup> / <sub>2</sub> (Executive), 8K, 16K

#### 2 and 4 holes type

2 holes	A3, B4 JIS, A4, B5 JIS, A5, 11 × 17, 8 <sup>1</sup> / <sub>2</sub> × 14 (Legal), 8 <sup>1</sup> / <sub>2</sub> × 11 (Letter), 7 <sup>1</sup> / <sub>4</sub> × 10 <sup>1</sup> / <sub>2</sub> (Executive), 8 × 13 (F/GL), 8 <sup>1</sup> / <sub>2</sub> × 13 (Foolscap), 8 <sup>1</sup> / <sub>4</sub> × 13 (Folio), 8K, 16K
4 holes	A3, B4 JIS, A4, B5 JIS, 11 × 17, 8 <sup>1</sup> / <sub>2</sub> × 11 (Letter), 7 <sup>1</sup> / <sub>4</sub> × 10 <sup>1</sup> / <sub>2</sub> (Executive), 8K, 16K

#### 4 holes type

4 holes	A3, B4 JIS, A4, B5 JIS, A5, 11 × 17, 8 <sup>1</sup> / <sub>2</sub> × 14 (Legal), 8 <sup>1</sup> / <sub>2</sub> × 11 (Letter), 7 <sup>1</sup> / <sub>4</sub> × 10 <sup>1</sup> / <sub>2</sub> (Executive), 8 × 13 (F/GL), 8 <sup>1</sup> / <sub>2</sub> × 13 (Foolscap), 8 <sup>1</sup> / <sub>4</sub> × 13 (Folio), 8K, 16K
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### Paper weight:

52 to 163 g/m<sup>2</sup> (14 to 43 lb.)



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