

## Information

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### Introduction

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This manual contains detailed instructions and notes on the operation and use of this machine. For your safety and benefit, read this manual carefully before using the machine. Keep this manual in a handy place for quick reference.

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### Important

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Contents of this manual are subject to change without prior notice. In no event will the company be liable for direct, indirect, special, incidental, or consequential damages as a result of handling or operating the machine.

Do not copy or print any item for which reproduction is prohibited by law.

Copying or printing the following items is generally prohibited by local law:

bank notes, revenue stamps, bonds, stock certificates, bank drafts, checks, passports, driver's licenses.

The preceding list is meant as a guide only and is not inclusive. We assume no responsibility for its completeness or accuracy. If you have any questions concerning the legality of copying or printing certain items, consult with your legal advisor.

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### Notes

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

Certain options might not be available in some countries. For details, please contact your local dealer.

Depending on which country you are in, certain units may be optional. For details, please contact your local dealer.

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## **Laser Safety:**

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This equipment complies with requirements of IEC60825-1:2001 for class 1 laser products.

This equipment contains four AlGaAs laser diodes, 6.2 milliwatt, 770 - 795 nanometer wavelength for each emitter.

This equipment does not emit hazardous light, since the beam is totally enclosed during all customer modes of operation and maintenance.

Direct (or indirect reflected) eye contact with the laser beam might cause serious eye damage.

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## **Caution:**

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Use of controls or adjustments or performance of procedures other than those specified in this manual might result in hazardous radiation exposure.

For good print quality, the supplier recommends that you use genuine toner, maintenance kits and parts from the supplier.

The supplier shall not be responsible for any damage or expense that might result from the use of consumables (toner, maintenance kits and parts) other than genuine consumables from the supplier with your office products.

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## **Power Source**

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120 V, 60 Hz, 11 A or more

Please be sure to connect the power cable to a power source as above.

# Safety Information

When using your printer, the following safety precautions should always be followed.

In this manual, the following important symbols are used:

 **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.

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## Environments Where the Machine Can be Used

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 **WARNING:**

- ***Keep the machine away from flammable liquids, gases, and aerosols. A fire or an electric shock might occur.***

 **CAUTION:**

- *Keep the machine away from humidity and dust. Otherwise a fire or an electric shock might occur. Do not place the machine on an unstable or tilted surface. If it topples over, an injury might occur.*
- *Keep the machine in an area that is within optimum environmental conditions. Operating the machine in an environment that is outside the recommended ranges of humidity and temperature can cause an electrical fire hazard. Keep the area around the socket free of dust. Accumulated dust can become an electrical fire hazard.*
- *Make sure the room where you are using the machine is well ventilated and spacious. Good ventilation is especially important when the machine is used heavily.*

 **Note**

- When you use this machine for a long time in a confined space without good ventilation, you may detect an odd smell. To keep the workplace comfortable, we recommend that you keep it well ventilated.

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## Handling Power Cords and Power Plugs

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**⚠ WARNING:**

- *The supplied power cord is for use with this equipment only. Do not use with other appliances. Doing so may result in fire, electric shock, or injury.*
- *The wall outlet shall be installed near the machine and shall be easily accessible.*
- *Connect the machine to the power source specified in this manual and do not use any other power sources. Connect the power cord directly to a wall outlet and do not use an extension cord. Power sources not specified in this manual and extension cords are electric shock or fire hazards.*
- *Power cords that are damaged, broken, modified, trapped under heavy objects, pulled hard, or bent severely are electric shock and fire hazards.*
- *Plug and unplug the power cable with dry hands, or an electric shock could occur.*

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**⚠ CAUTION:**

- *When you disconnect the power plug from the wall outlet, always pull the plug (not the cable).*
- *It is dangerous to handle the plug with wet hands. Doing this may result in receiving an electric shock.*

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## Handling the Machine

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### **WARNING:**

- ***Wait for 30 minutes or more after disconnecting the power plug before removing the transfer unit.***

### **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.*
- *Unplug the power cord from the wall outlet before you move the machine. While moving the machine, you should take care that the power cord will not be damaged under the machine.*
- *Do not connect the Ethernet port of the machine to a network that may supply excess voltage, such as a telephone line. Doing so may result in fire or electric shock.*
- *The printer weighs approximately 23 kg (50.6 lb.). When moving the printer, use the inset grips on both sides, and lift slowly in pairs. The printer will break or cause injury if dropped.*
- *When moving the printer after use, do not take out any of the toners, nor the waste toner bottle to prevent toner spill inside the machine.*
- *When moving the printer, use the inset grips on both sides. The printer will break or cause injury if dropped.*
- *Be careful not to trap your fingers when opening or closing the top cover.*

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## Handling the Machine's Interior

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### **WARNING:**

- ***Do not attempt any maintenance or troubleshooting other than that mentioned in this manual. This machine contains a laser beam generator and direct exposure to laser beams can cause permanent eye damage.***
- ***Do not put your hands inside the printer when the input tray is removed. Some internal parts become hot and are a burn hazard.***

### **CAUTION:**

- *The inside of this printer becomes very hot. Do not touch parts labelled “” (indicating a hot surface).*
- *The fusing section of this machine might be very hot. Caution should be taken when removing misfed paper.*
- *Lifting the paper feed unit carelessly or dropping it may cause injury.*
- *Do not pull out the paper tray forcefully. If you do, the tray might fall and cause an injury.*
- *Before installing the memory unit, turn off the printer's power switch and unplug the power cable. After installing the memory unit, be sure to close the memory unit cover, and then turn the machine back on. Do not turn on the machine before closing the memory unit cover.*
- *Take care to avoid cutting your hands when loading paper.*

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## Handling the Consumables

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### **WARNING:**

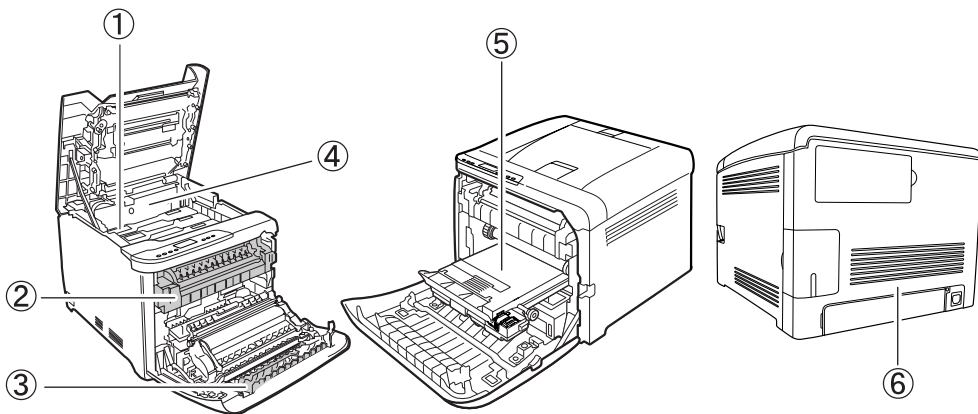
- ***Do not incinerate used toner or toner containers. Toner dust might ignite when exposed to an open flame. Dispose of used toner containers in accordance with local regulations.***
- ***Do not store toner, used toner, or toner containers in a place with an open flame. The toner might ignite and cause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

### **CAUTION:**

- *Keep toner (used or unused) and toner containers out of reach of children.*
- *If toner or used toner is inhaled, gargle with plenty of water and move into a fresh air environment. Consult a doctor if necessary.*
- *If 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 amounts 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, and we recommend that you use only the expendable supplies available at an authorized dealer.*

# 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.



ASH133S

①



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

Keep toner (used or unused) and toner containers out of reach of children.

②



Do not touch labelled gray areas.

The areas can get very hot.

③

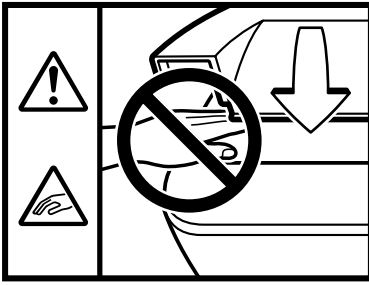


Do not touch labelled gray areas.

The areas can get very hot.



④



Be careful not to trap your fingers when opening or closing the top cover.

⑤



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

Keep toner (used or unused) and toner containers out of reach of children.

⑥



The machine weighs approximately 23 kg (50.6 lb.). When moving the machine, use the inset grips on both sides, and lift slowly in pairs.

# ENERGY STAR Program

## Important

❑ The SP C231N model printer is not compliant with ENERGY STAR Program.

### ENERGY STAR® Program Requirements for Imaging Equipment



The ENERGY STAR® Program Requirements for Imaging Equipment encourage energy conservation by promoting energy efficient computers and other office equipment.

The program backs the development and dissemination of products that feature energy saving functions.

It is an open program in which manufacturers participate voluntarily.

Targeted products are computers, monitors, printers, facsimiles, copiers, scanners, and multi-function devices. Energy Star standards and logos are internationally uniform.

### ❖ Low-power Mode (Energy Saver mode)

This printer automatically lowers its power consumption 15 minutes after the last operation has been completed. To exit Low-power (Energy Saver) mode, press any key on the control panel. For more information about how to configure Energy Saver mode, see "Making Printer Settings Using the Control Panel", Software Guide as a HTML file on the CD-ROM.

### ❖ Specifications

Energy Saver mode	Power Consumption	15 W or less
	Default Interval	15 minutes
	Recovery Time	48 seconds or less

### ❖ Recycled Paper

We recommend use of recycled paper which is environmentally friendly. Please contact your sales representative for recommended paper.

# Others

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## Symbols

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The meanings of the symbols for the switches on this machine are as follows:

- **I** :POWER ON.
- **O** :POWER OFF.

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## Note to users in the United States of America

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### Note

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This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio /TV technician for help.

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### Caution

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Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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## Declaration of Conformity

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This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

- ① This device may not cause harmful interference, and
- ② this device must accept any interference received, including interference that may cause undesired operation.

Responsible party: Ricoh Americas Corporation

Address: 5 Dedrick Place, West Caldwell, NJ 07006

Telephone number: 973-882-2000

Product Name: Laser Printer

Model Number: SP C231N / Aficio SP C231N, SP C232DN / Aficio SP C232DN

- Properly shielded and grounded cables and connectors must be used for connections to a host computer (and/or peripheral) in order to meet FCC emission limits.

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## Note to users in Canada

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### Note

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This Class B digital apparatus complies with Canadian ICES- 003.

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## Remarque concernant les utilisateurs au Canada

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### Avertissement

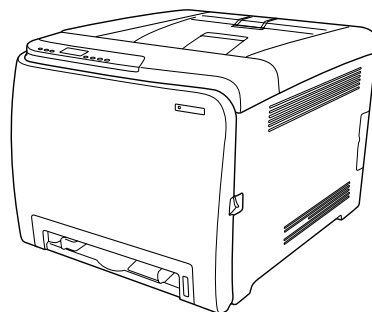
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Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.



# SP C231N/C232DN

## Operating Instructions Hardware Guide



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

---

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

## **Introduction**

This manual contains detailed instructions and notes on the operation and use of this machine. For your safety and benefit, read this manual carefully before using the machine. Keep this manual in a handy place for quick reference.

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Certain options might not be available in some countries. For details, please contact your local dealer.

Depending on which country you are in, certain units may be optional. For details, please contact your local dealer.

## **Caution:**

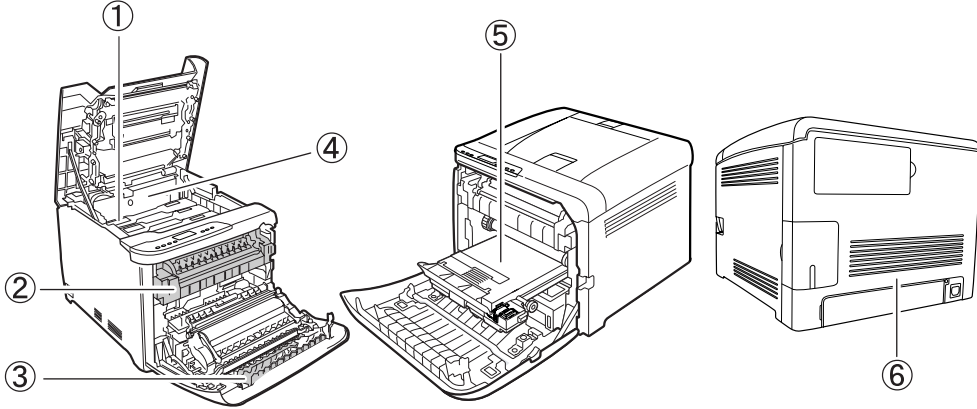
Use of controls or adjustments or performance of procedures other than those specified in this manual might result in hazardous radiation exposure.

For good print quality, the supplier recommends that you use genuine toner, maintenance kits and parts from the supplier.

The supplier shall not be responsible for any damage or expense that might result from the use of consumables (toner, maintenance kits and parts) other than genuine consumables from the supplier with your office products.

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ASH133S

①



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.

If you dispose of the used toner containers yourself, dispose of them according to local regulations.

Keep toner (used or unused) and toner containers out of reach of children.

②



Do not touch labelled gray areas.

The areas can get very hot.

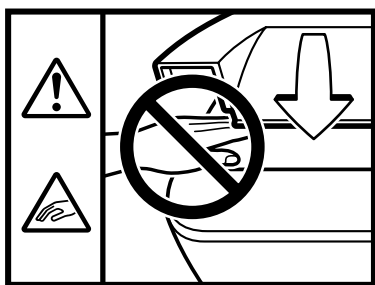
③



Do not touch labelled gray areas.

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④



Be careful not to trap your fingers when opening or closing the top cover.

⑤



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.

If you dispose of the used toner containers yourself, dispose of them according to local regulations.

Keep toner (used or unused) and toner containers out of reach of children.

⑥



The machine weighs approximately 23 kg (50.6 lb.). When moving the machine, use the inset grips on both sides, and lift slowly in pairs.



# How to Read This Manual

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## Symbols

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This manual uses the following symbols:

 **WARNING:**

Indicates important safety notes.

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

 **CAUTION:**

Indicates important safety notes.

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

 **Important**

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

 **Note**

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

 **Reference**

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

**[ ]**

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

**[ ]**

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

# Description for the Specified Model

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

## 220-240V

This explains about the 220–240 V model printer. You can identify the model by checking the label on the rear of the printer.

Read if you purchase this model.

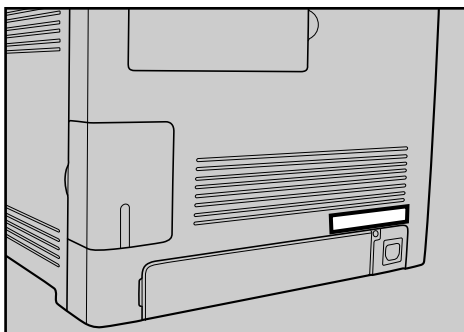
## 120V

This explains about the 120 V model printer. You can identify the model by checking the label on the rear of the printer.

Read if you purchase this model.

### **Note**

- You can identify the printer's model by checking the label on the rear of the printer as shown.



ASH074S

# Installing the Operating Instructions

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

## Important

### System Requirements :

- Windows 2000/XP/Vista, Windows Server 2003/2003 R2/2008.
- 800 × 600 or higher monitor resolution.

### Web Browsers :

- Microsoft Internet Explorer 4.01 SP2 or higher
- Netscape 6.2 or higher

**1** Quit all applications currently running.

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

The installer starts.

Auto Run may not work under certain operating system setting. If this is the case, launch “Setup.exe” on the CD-ROM root directory.

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

**4** Click [Install Manuals].

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

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

**7** Click [Exit].

## Note

- Auto Run may not work under certain operating system setting. If this is the case, copy all data on the CD-ROM root directory to your hard disk drive, and then launch “Setup.exe” to start the installation.
- To uninstall the Operating Instructions Manual, select [Programs] in the [Start] menu, select your printer driver, and then click [uninstall]. You can uninstall each manual guide separately.
- If you are using an incompatible Web browser and the simpler version of the Operating Instructions Manual does not display correctly, open the folder “MANUAL \ LANG \ (language) \ (manual name) \ unv \” on the CD-ROM, and then double-click on “index.htm”.

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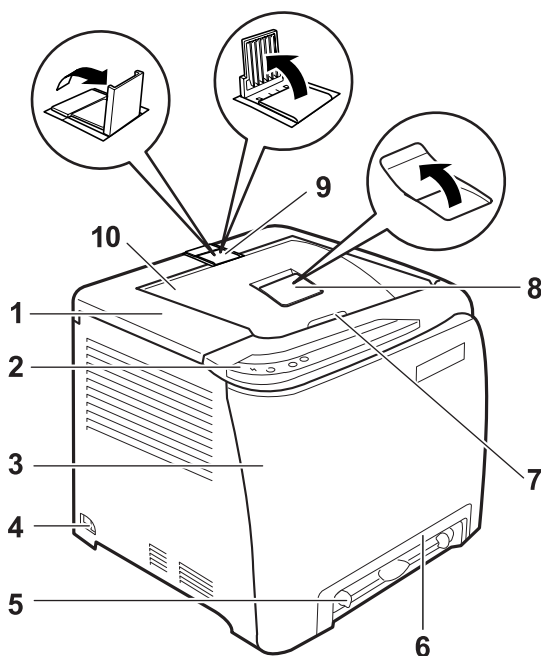
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# 1. Guide to the Printer

## Exterior: Front View



ASH022S

### **1. Top Cover**

Open this cover to replace the print cartridge.

### **2. Control Panel**

Contains keys for printer control and indicators that shows the printer status.

### **3. Front Cover**

Open this cover to replace the waste toner bottle or remove jammed paper.

To open this cover, pull the lever on the right side of the printer.

### **4. Power Switch**

Use this switch to turn the power on and off.

### **5. Bypass Tray**

Load paper sheet by sheet.

### **6. Tray 1**

Up to 250 sheets of plain paper can be loaded.

### **7. Top Cover Open Lever**

### **8. Standard tray extension**

Use this to support sheets that come out curled after they are printed.

Flip open the extension by pushing down on the end that is toward the rear of the machine.

### **9. Stop Fence**

Use these to stop legal-size or A4-size prints falling behind the machine.

For legal-size prints, raise the rear fence.

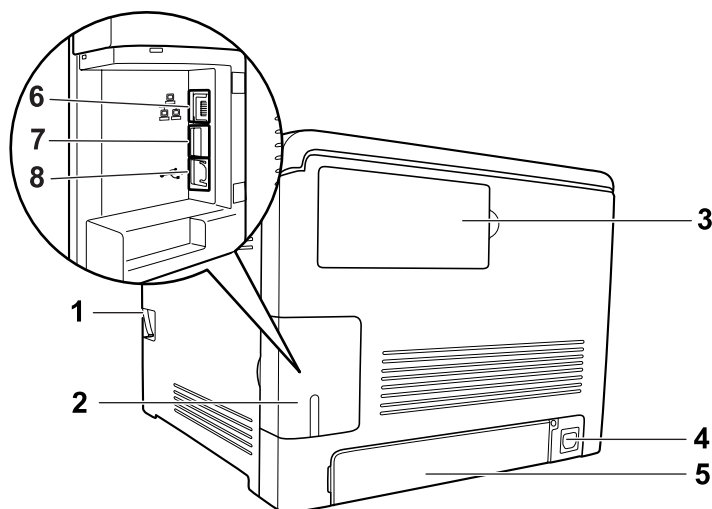
For A4-size prints, raise the forward fence.

### **10. Standard Tray**

Output is stacked here with the print side down.

# Exterior: Rear View

1



ASH023S

## 1. Front Cover Open Lever

## 2. Cable cover

## 3. Memory cover

Remove this cover to install the additional memory unit (optional).

## 4. Power socket

## 5. Rear cover

Remove this cover when you load paper larger than A4 in the paper tray.

## 6. Ethernet Port

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

## 7. USB Host Interface

Use a USB cable to connect the digital camera to the printer. You can print images directly from a digital camera, without having to connect to a computer.

## 8. USB Port

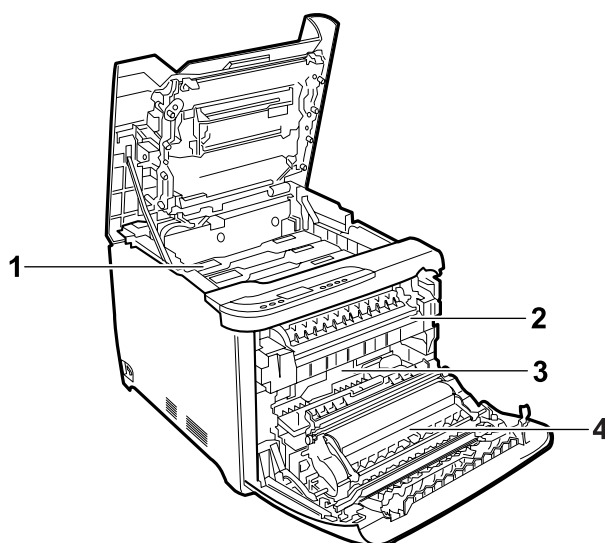
Use a USB cable to connect the printer to the host computer.

### Note

- Make sure the digital camera you connect to the printer for PictBridge and direct printing supports PictBridge.
- USB Host Interface is installed only for the SP C232DN model printer.

# Inside

1



ASH151S

## 1. Print Cartridge

Loads from the printer rear, in the order of cyan (C), magenta (M), yellow (Y), and black (K).

If the following message appears on the control panel, replace the print cartridge:  
"Replace (Color) Print Cartridge"

## 2. Fusing Unit

Fuses toner to the paper.

You might have to handle this unit to check for or remove jammed paper.

## Reference

For details about the messages which appear on the screen to prompt you to replace the units, see p.93 "Error & Status Messages on the Control Panel".

## 3. Waste Toner Bottle

Collects toner that is wasted during printing.

If the following message appears on the control panel, replace the waste toner bottle:

"Replace Waste Toner"

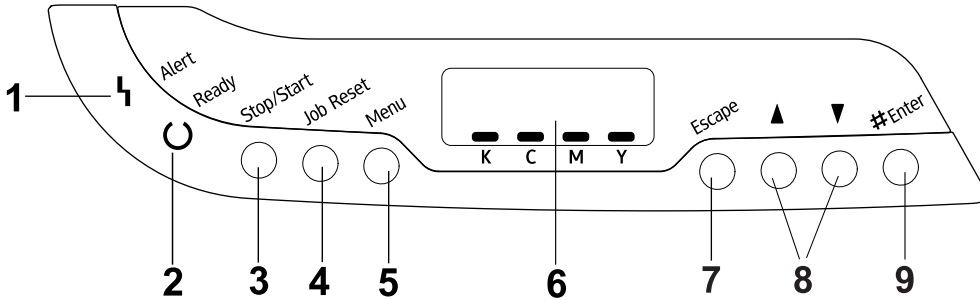
## 4. Transfer unit

Remove this unit when replacing the waste toner bottle, intermediate transfer unit.



# Control Panel

1



ASI003S

## 1. Alert Indicator

Lights up whenever a printer error occurs. Use Display to check the error.

## 2. Ready Indicator

Lights up when the printer is ready to receive data from a computer. Flashes when the printer is warming up or receiving data.

## 3. [Stop/Start] key

If you press this key, the printer stops receiving data, and printing is not possible. Press the [Stop/Start] key again to return to the ready condition.

## 4. [Job Reset] key

Press this key to cancel a job that is printing out.

## 5. [Menu] key

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

## 6. Display

Display current printer status and error message

## 7. [Escape] key

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

## 8. Scroll Keys

Press to move the cursor in each direction, step by step.

## 9. [#Enter] key

Press this key to execute menu items selection on.

# 2. Installing the Printer and Options

## Installing the Printer

This section describes how to install the printer and perform settings after installation.

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### Where to Put the Printer

---

The printer's location should be carefully chosen because environmental conditions greatly affect its performance.

**⚠ WARNING:**

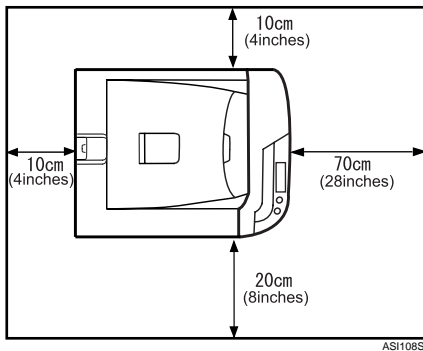
- ***The supplied power cord is for use with this equipment only. Do not use with other appliances. Doing so may result in fire, electric shock, or injury.***
- ***Keep the machine away from flammable liquids, gases, and aerosols. A fire or an electric shock might occur.***
- ***The wall outlet shall be installed near the machine and shall be easily accessible.***
- ***Connect the machine to the power source specified in this manual and do not use any other power sources. Connect the power cord directly to a wall outlet and do not use an extension cord. Power sources not specified in this manual and extension cords are electric shock or fire hazards.***
- ***Power cords that are damaged, broken, modified, trapped under heavy objects, pulled hard, or bent severely are electric shock and fire hazards.***

**⚠ CAUTION:**

- *Keep the machine away from humidity and dust. Otherwise a fire or an electric shock might occur. Do not place the machine on an unstable or tilted surface. If it topples over, an injury might occur.*
- *Keep the machine in an area that is within optimum environmental conditions. Operating the machine in an environment that is outside the recommended ranges of humidity and temperature can cause an electrical fire hazard. Keep the area around the socket free of dust. Accumulated dust can become an electrical fire hazard.*
- *Make sure the room where you are using the machine is well ventilated and spacious. Good ventilation is especially important when the machine is used heavily.*
- *Machine sound levels exceeding  $L_{WA,d} > 63$  dB (A) are not suitable for desk work environments, so place the machine in another room.*
- *When new, electrical devices containing volatile materials will normally release emissions into the air of their vicinity. For this reason, for the first few days after installation of a new device, strong ventilation inside the room where it is placed is necessary.*

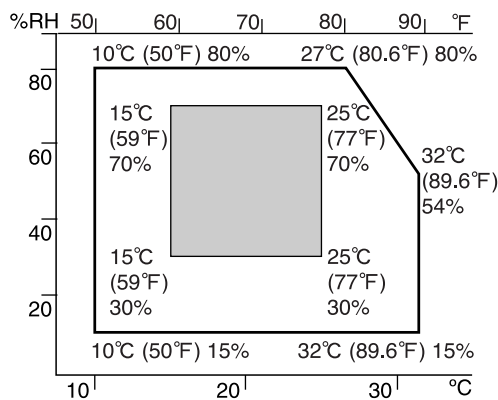
**❖ Space Required for Installation**

The recommended (or minimum) space requirements are as follows:



## ❖ Optimum Environmental Conditions

Permissible and recommended temperature and humidity ranges are as follows:



ASH201S

- White area: Permissible Range
- Gray area: Recommended Range

### Note

- When you use this machine for a long time in a confined space without good ventilation, you may detect an odd smell. To keep the workplace comfortable, we recommend that you keep it well ventilated.

## ❖ Environments to Avoid

### Important

- Areas exposed to direct sunlight or strong light
- Dusty areas
- Areas with corrosive gases
- Areas that are excessively cold, hot, or humid
- Locations near air conditioners or humidifiers
- Locations near other electronic equipment
- Locations subject to frequent strong vibration

## ❖ Power Source

Connect the power cable to a power source of the following specification:

- 220 - 240 V, 50/60 Hz, 6 A or more
- 120 V, 60 Hz, 11 A or more

## Unpacking

To protect it from shock and vibration during transit, this printer comes packaged in cushioning foam and secured with tape. Remove these protective materials after bringing the machine to where it will be installed.

### **WARNING:**

- ***Do not incinerate used toner or toner containers. Toner dust might ignite when exposed to an open flame. Dispose of used toner containers in accordance with local regulations.***
- ***Do not store toner, used toner, or toner containers in a place with an open flame. The toner might ignite and cause burns of a fire.***

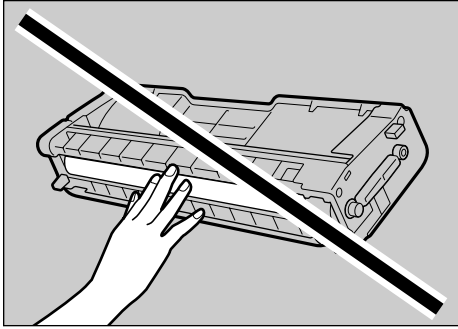
### **CAUTION:**

- *Keep toner (used or unused) and toner containers out of reach of children.*
- *If toner or used toner is inhaled, gargle with plenty of water and move into a fresh air environment. Consult a doctor if necessary.*
- *If 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.*
- *When moving the printer, use the inset grips on both sides. The printer will break or cause injury if dropped.*
- *Be careful not to trap your fingers when opening or closing the top cover.*

### **Important**

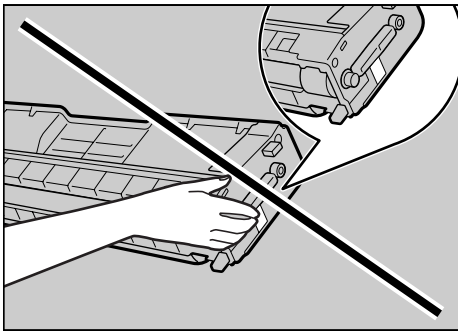
- Removed tape is dirty. Be careful not to let it touch your hands or clothes.
- Leave the tape holding the paper feed tray and cover in place while moving the printer.
- Lower the machine slowly and carefully to prevent trapping your hands.
- Do not grip on the tray area when lifting the printer.
- Do not allow paper clips, staples, or other small metallic objects to fall inside the machine.
- Keep the uncovered print cartridge away from direct sunlight.

- ❑ Do not touch the print cartridge's photo conductor.



BAA162S

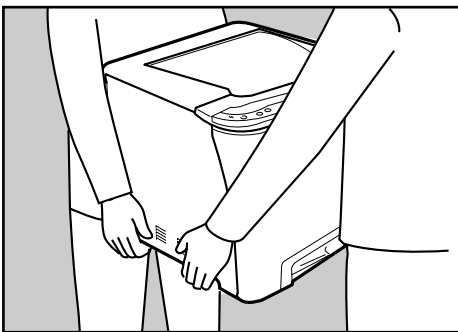
- ❑ Do not touch the ID chip on the side of the print cartridge.



AS1600S

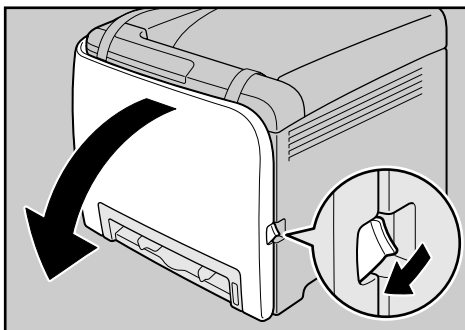
**1** Remove the plastic bag.

**2** Lift the printer with two people by using the inset grips on both sides of the printer.



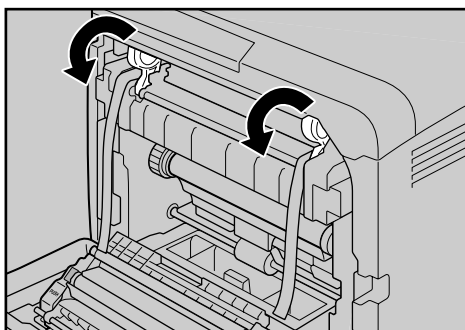
ASH051S

- 3** Pull Front Cover Open Lever, and then open the front cover with both hands carefully.



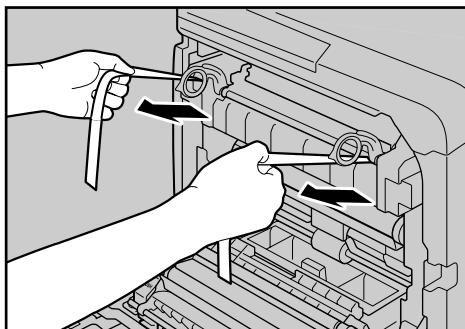
ASH107S

- 4** Lower the blue fusing unit lever.



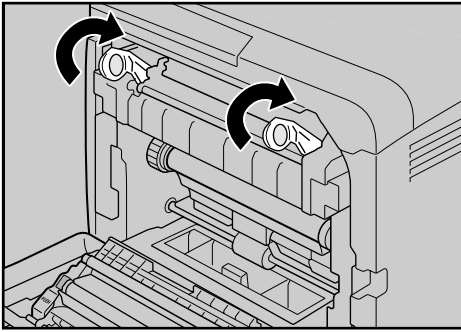
ASH108S

- 5** Hold each tape near its joint, and then pull both tapes gently upward to remove them from the printer at the same time.

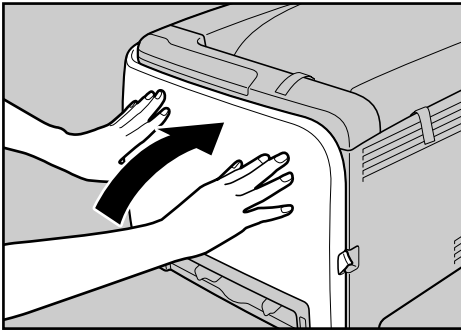


ASH109S

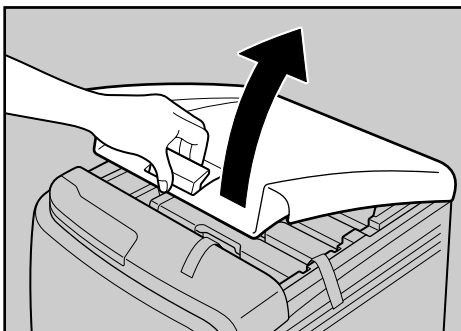
**6** Carefully lift the blue fusing unit levers.



**7** Close the front cover with both hands carefully.

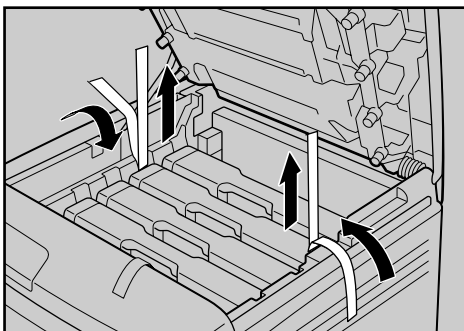


**8** Pull up Top Cover Open Lever to open the top cover.





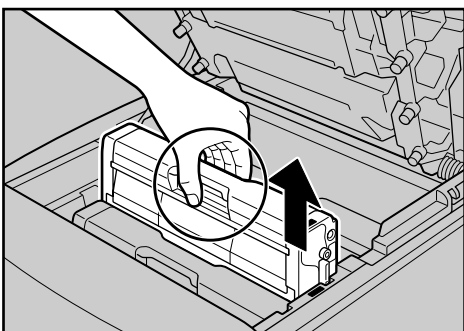
**9** Remove the protection tape.



ASH110S

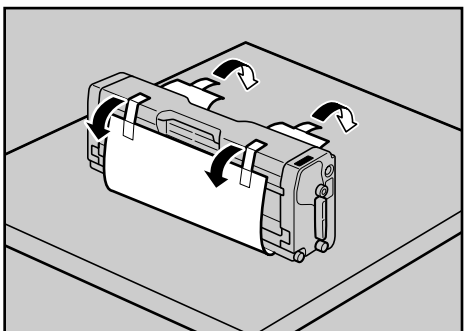
**10** Take each print cartridge out.

Gripping its center, carefully pull the print cartridge upward and out.



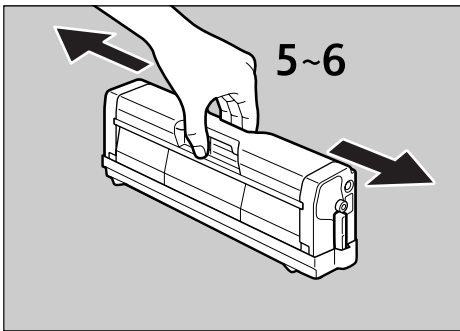
ASH005S

When taking out the black print cartridge, be sure to place it on at a flat surface, and then remove the protection sheet also.



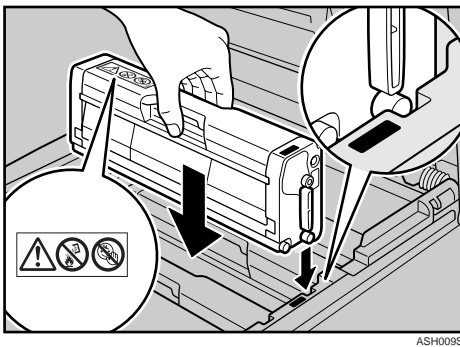
ASH106S

- 11** Hold the print cartridge and shake it from side to side five or six times.

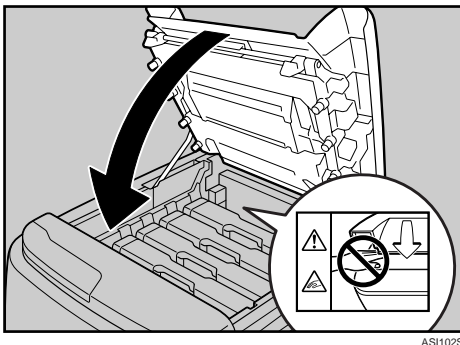


2

- 12** Check the toner color and location correspond, and then carefully insert the print cartridge vertically.



- 13** Close the top cover with both hands carefully. Be careful not to trap your fingers.



## Turning the Power On

Follow the procedure below to turn the power on.

**⚠ WARNING:**

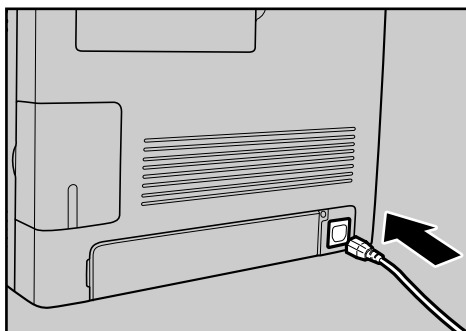
- ***Plug and unplug the power cable with dry hands, or an electric shock could occur.***

2

**⚡ Important**

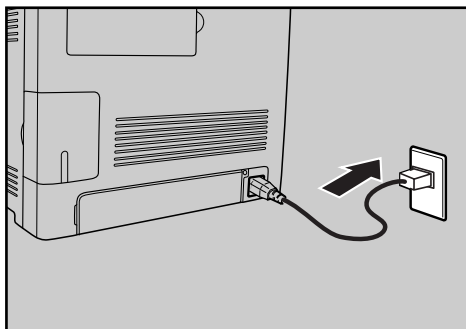
- Make sure the power cable is plugged securely into the wall outlet.
- Turn the power switch off when plugging and unplugging the power plug.
- Do not turn off the power switch until initializing is completed. Doing so results in malfunction.

**1 Plug in the power cable.**



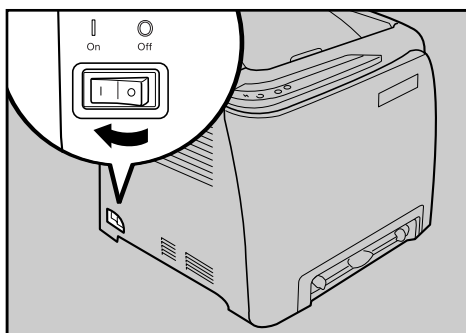
ASH071S

**2 Insert the plug of the power cord into the wall socket securely.**



ASH134S

### 3 Turn the power switch to ON.



ASH072S

The Ready indicator on the control panel lights up.

#### Note

- Wait until the **Ready** indicator turns on.
- The machine may make a noise while initializing. This noise does not indicate a malfunction.

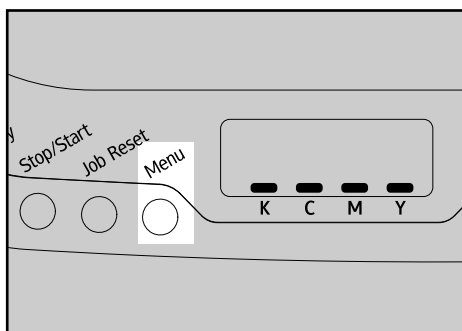
## Selecting the Display Language

Select a language using the procedure described here. The message for the selected language will appear on the display. If you want to use the display in English, the following procedures are unnecessary.

#### Note

- The default setting is English.

### 1 Press the [Menu] key.



AS1066S

### 2 Press the [▼] or [▲] key to display [Language], and then press the [#Enter] key.

```
Menu:
Language
```

- 3 Press the [▼] or [▲] key to select the language, and then press the [#Enter] key.

```
Language:
English
```

- 4 Press the [Menu] key to return to the initial screen.  
The initial screen appears.

---

## Test Printing

---

The following explains the procedure for performing a test print.

Perform the test print to verify the printer is working normally. Test printing checks printer performance only; it does not test the connection to the computer.

- 1 Press the [Menu] key.
- 2 Press the [▼] or [▲] key to display [List/Test Print], and then press the [#Enter] key.

```
Menu:
List/Test Print
```

- 3 Press the [▼] or [▲] key to display [Config. Page], and then press the [#Enter] key.

```
List/Test Print:
Config. Page
```

The configuration page will be printed.

- 4 Press the [Menu] key to return to the initial screen.  
The initial screen appears.

### Note

- If printing is not normal, check to see if an error message appears on the display.
- If there is an error message, see p.93 “Error & Status Messages on the Control Panel”.

# Installing Options

This section describes how to install options.

By installing options, you can improve the printer performance and have an expanded variety of features to use. For the specifications of each option, see p.125 "Specifications".

2

## Attaching Paper Feed Unit TK1010

When installing multiple options, install Paper Feed Unit TK1010 first.

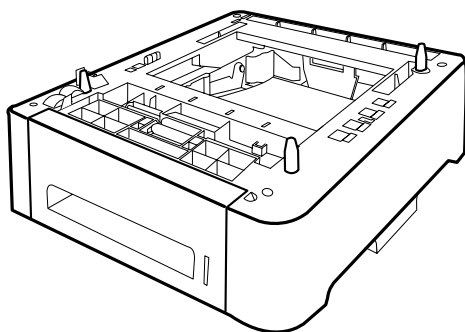
### **⚠ CAUTION:**

- *The printer weighs approximately 23 kg (50.6 lb.). When moving the printer, use the inset grips on both sides, and lift slowly. The printer will break or cause injury if dropped.*
- *Lifting the paper feed unit carelessly or dropping it may cause injury.*
- *It is dangerous to handle the plug with wet hands. Doing this may result in receiving an electric shock.*
- *Before moving the machine, unplug the power cord from the wall outlet. If the cord is unplugged abruptly, it could become damaged. Damaged plugs or cords can cause an electrical or fire hazard.*

### **⚠ Important**

- Tray 1 is required to print using the optional paper feed unit. Without Tray 1, paper jams will occur.
- Certain options might not be available in some countries. For details, contact your local dealer.
- The printer should always be lifted by two people.
- Do not grip on the tray area when lifting the printer.

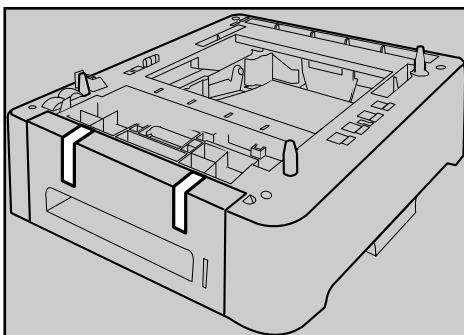
- 1** Check the package contains Paper Feed Unit TK1010.



ASH001S

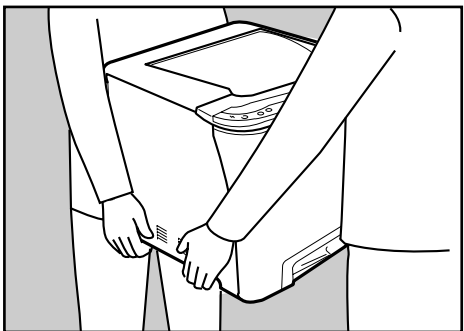
**2** Turn off the printer's power switch, and then unplug the printer's power cord from the wall outlet.

**3** Remove the adhesive tape from the optional paper feed unit.



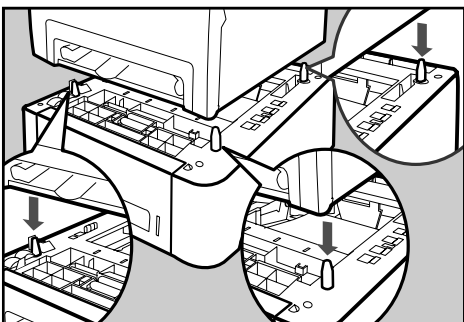
ASH025S

**4** Lift the printer using the inset grips on both sides of the printer.



ASH051S

**5** There are three upright pins on the optional paper feed unit. Align them with the holes on the underside of the printer, and then carefully lower the printer.



ASH003S

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**6** After installing the option, print the configuration page to confirm the installation.

 **Note**

- When moving the printer, remove the optional paper feed unit.
- Before using the optional paper feed unit, you can make settings in the printer driver.
- If the new device is listed in the column of configuration options, then it has been properly installed.
- If the optional paper feed unit is not installed properly, reinstall it following this procedure. If you cannot install it properly even after attempting reinstallation, contact your sales or service representative.

 **Reference**

For details about printing the configuration page using control panel, see p.16 “Test Printing”.

For details about loading paper into the paper tray, see p.47 “Loading Paper”.

When adjusting the printing position, see Software Guide.



## Attaching Memory Unit Type F 256MB (DDR-SDRAM Module)

### ⚠ CAUTION:

- Before installing the memory unit, turn off the printer's power switch and unplug the power cable. After installing the memory unit, be sure to close the memory unit cover, and then turn the machine back on. Do not turn on the machine before closing the memory unit cover.

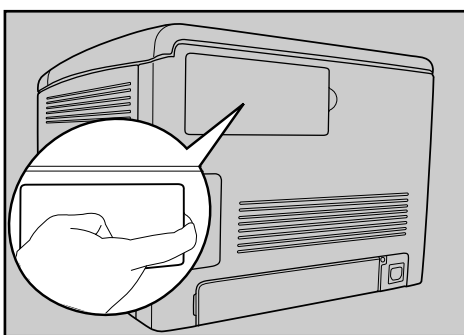
2

### ⚡ Important

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

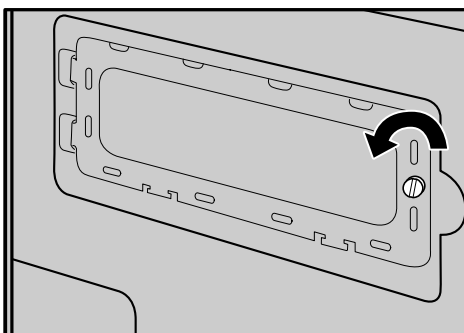
**1** Turn off the power, and then unplug the power cable.

**2** Remove the memory cover.



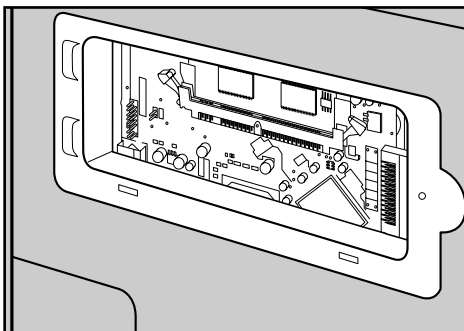
ASH026S

**3** Loosen the screw securing the inner cover by using a coin.

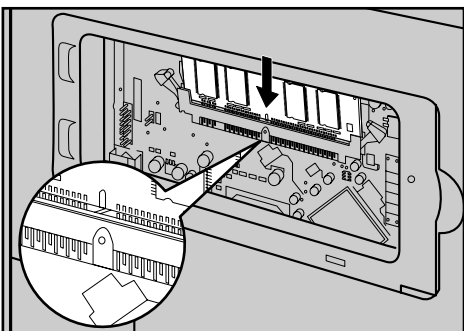


ASH027S

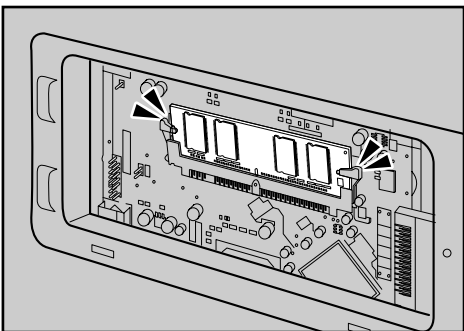
- 4** Be sure to install the memory unit as shown.

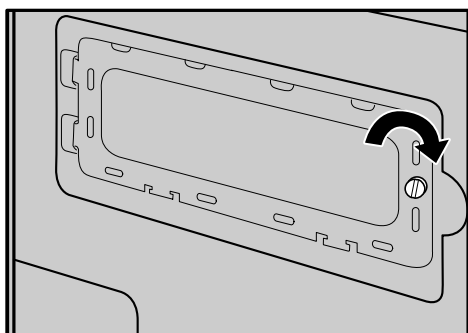


- 5** To install the recommended memory, align the notch of the recommended memory with the protruding part of the vacant slot, and then carefully insert the module at an angle.



- 6** Keeping the module at an angle, press it down until it clicks into place.



**7** Attach the inner cover, and then fasten the screw.**8** Attach the memory cover.**9** After installing the option, print the configuration page to confirm the installation.

If it is installed properly, the memory capacity will appear under “Total Memory” on the configuration page.

**Note**

- Before using the new memory unit, make settings in the printer driver.
- If the memory unit is not properly installed, repeat this procedure. If you cannot install it properly even after the reinstallation, contact your sales or service representative.

**Reference**

For details about printing the configuration page using control panel, see p.16 “Test Printing”.

# 3. Connecting the Printer

## Network Connection

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

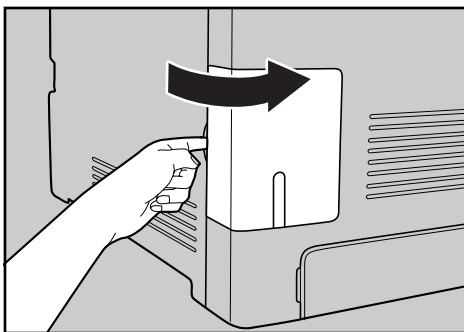
### ⚠ **CAUTION:**

- *Do not connect the Ethernet port of the machine to a network that may supply excess voltage, such as a telephone line. Doing so may result in fire or electric shock.*

### ⚡ **Important**

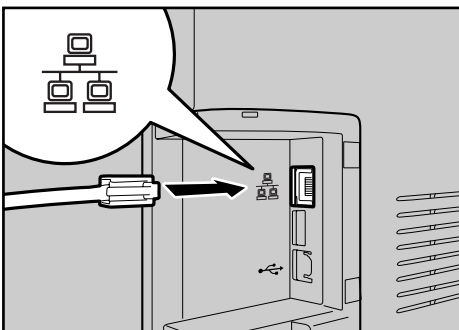
- Use shielded Ethernet cable. Unshielded cables create electromagnetic interference that could cause malfunctions.
- The Ethernet cable is not supplied with this printer. Select your cable according to the network environment.

### **1** Remove the cable cover.



ASH090S

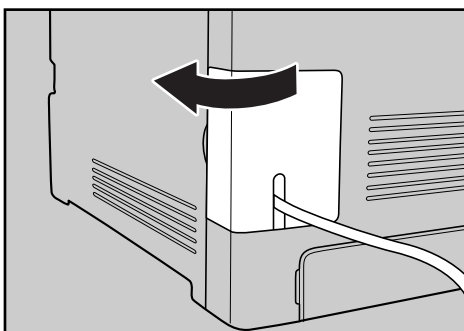
### **2** Connect the Ethernet cable to the Ethernet port.



ASH052S

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

**4** Attach the cable cover.



ASH091S

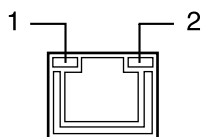
 **Reference**

For details about network environment settings, see p.27 "Ethernet Configuration".

---

## Reading the LED Lamps

---



AQC070S

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

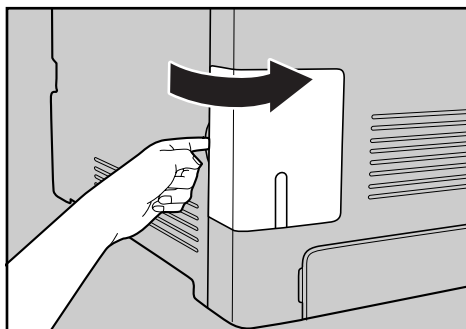
**2. Green:** comes on when the printer is properly connected to the network.

# USB Connection

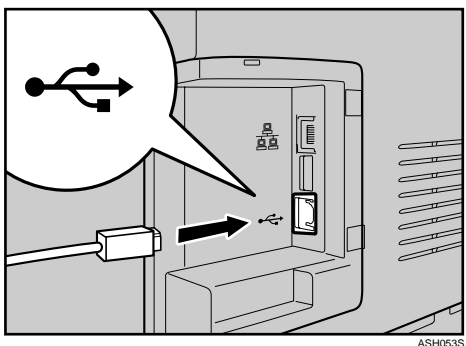
## Important

- USB2.0 interface cable is not supplied. Obtain it separately, according to the computer you are using.
- USB connection is possible under Windows 2000/XP/Vista, Windows Server 2003/2003 R2/2008, and Mac OS X.
- USB connection with Macintosh is only possible via the printer's USB port.

### **1** Remove the cable cover.

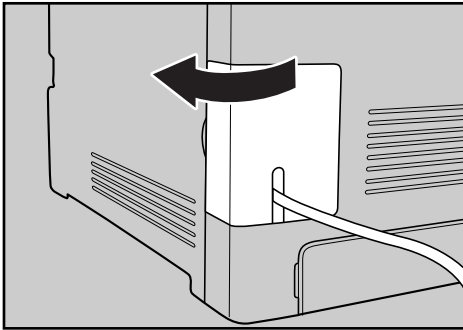


### **2** Connect the square-shaped connector of the USB2.0 cable to the USB port.



### **3** Connect the opposite end's flat connector to devices such as your computer's USB interface.

**4** Attach the cable cover.



ASH091S

3

 **Reference**

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

# 4. Configuration

## Ethernet Configuration

If connecting the printer to a network using an Ethernet cable, set the necessary settings, depending on the network environment, on the control panel.

Web Image Monitor or Smart Organizing Monitor can be used for the settings related to the IP address.

### Important

- The following are settings that can be set at the **[Host Interface]** menu and their default values.

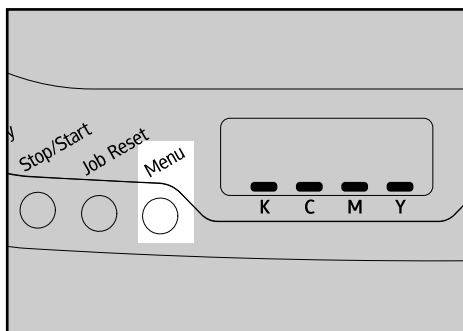
Setting Name	Value
DHCP	On
MAC Address	XX-XX-XX-XX-XX-XX
IP Address	192.0.0.192
Subnet Mask	255.255.255.0
Gateway Address	192.0.0.192
Frame Type (NW)	Auto Select
Active Protocol	<ul style="list-style-type: none"><li>• TCP/IP Active</li><li>• NetWare Active</li><li>• AppleTalk Active</li></ul>
Ethernet Speed	Auto Select

### Note

- If **[DHCP]** is in use, the IP address, subnet mask, and gateway address are all set automatically.
- Each printer has a unique **[MAC Address]** value.
- Set the Ethernet speed if necessary.



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



- 2 Press the **[▼]** or **[▲]** key to display **[Host Interface]**, and then press the **[#Enter]** key.

```
Menu:
Host Interface
```

- 3 Press the **[▼]** or **[▲]** key to display **[Network Setup]**, and then press the **[#Enter]** key.

```
Host Interface:
Network Setup
```

- 4 Press the **[▼]** or **[▲]** key to display **[Active Protocol]**, and then press the **[#Enter]** key.

```
Network Setup:
Active Protocol
```

- 5 Press the **[▼]** or **[▲]** key to display **[TCP/IP]**, and then press the **[#Enter]** key.

```
Active Protocol:
TCP/IP
```

This example shows how to activate TCP/IP.

- 6 Press the **[▼]** or **[▲]** key to display **[Active]**, and then press the **[#Enter]** key.

```
TCP/IP:
Active
```

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

- 7** Press the [▼] or [▲] key to display [DHCP], and then press the [#Enter] key.

```
Network Setup:
DHCP
```

- 8** Press the [▼] or [▲] key to select [Off], and then press the [#Enter] key.

```
DHCP:
Off
```

The address detected by the printer will appear.

- 9** To specify the IP Address. Press the [▼] or [▲] key to display [IP Address], and then press the [#Enter] key.

```
Network Setup:
IP Address
```

- 10** Press the [▼] or [▲] key to enter the address.

Press the [▼] or [▲] key to enter the left most entry field of the address.

- To go to the next field, press the [#Enter] key.
- To go back to the previous field, press the [Escape] key.

- 11** After setting values for all fields, press the [#Enter] key.

The [IP Address] menu appears.

- 12** Set the subnet mask and gateway address. Press the [▼] or [▲] key to select [Subnet Mask] or [Gateway Address], and then press the [#Enter] key.

Set values for each setting following the same procedure as for the IP address.

- 13** After completing the settings, return to the initial screen by pressing the [Menu] key.

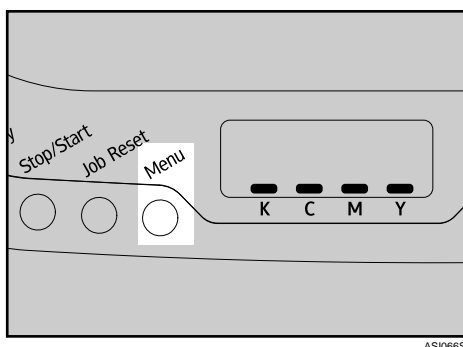
## Using DHCP - Detecting the Network Address Automatically

### Important

- When you use this printer in the DHCP environment, select **[DHCP]** following this procedure.
- When **[DHCP]** is selected, you cannot make settings for the following items:
  - IP Address
  - Subnet Mask
  - Gateway Address
- Consult your network administrator for information about making network settings.

4

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



- 2** Press the **[▼]** or **[▲]** key to display **[Host Interface]**, and then press the **[#Enter]** key.

```
Menu:
Host Interface
```

- 3** Press the **[▼]** or **[▲]** key to display **[Network Setup]**, and then press the **[#Enter]** key.

```
Host Interface:
Network Setup
```

- 4** Press the **[▼]** or **[▲]** key to display **[DHCP]**, and then press the **[#Enter]** key.

```
Network Setup:
DHCP
```

- 5** Press the [▼] or [▲] key to select [On], and then press the [#Enter] key.

```
DHCP :
On
```

The address detected by the printer will appear.

- 6** Press the [Menu] key.

The initial screen appears.

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

#### Reference

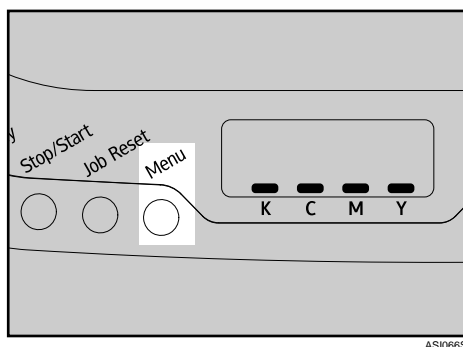
For details about printing the configuration page using control panel, see p.16 “Test Printing”.

## Specifying an IP Address (No DHCP)

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

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

- 1** Press the [Menu] key.



- 2** Press the [▼] or [▲] key to display [Host Interface], and then press the [#Enter] key.

```
Menu :
Host Interface
```

- 3** Press the [▼] or [▲] key to display [Network Setup], and then press the [#Enter] key.

```
Host Interface:
Network Setup
```

- 4** Press the [▼] or [▲] key to display [DHCP], and then press the [#Enter] key.

```
Network Setup:
DHCP
```

- 5** Press the [▼] or [▲] key to select [Off], and then press the [#Enter] key.

```
DHCP:
Off
```

The address detected by the printer will appear.

- 6** Press the [▼] or [▲] key to display [IP Address], and then press the [#Enter] key.

```
Network Setup:
IP Address
```

- 7** Press the [▼] or [▲] key to enter the address, and then press the [#Enter] key.

```
IP Address:
0.0.0.0
```

Press the [▼] or [▲] key to enter the left most entry field of the address. After entering the left field, press the [#Enter] key, and then you can enter the next field. After completing to enter in the all field, press the [#Enter] key.

- 8** Use this method to assign Subnet Mask and Gateway Address.

- 9** Press the [Menu] key.

The initial screen appears.

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

### Reference

For details about printing the configuration page using control panel, see p.16 "Test Printing".

## Making Network Settings for Using Netware

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

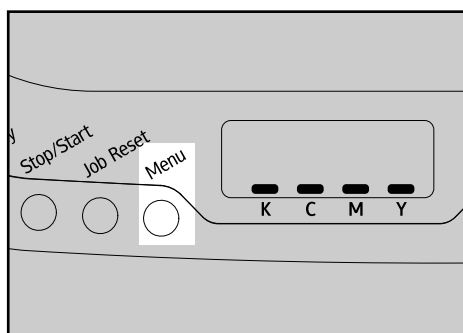
Select one of the items below if necessary.

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

### Important

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

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



**2** Press the **[▼]** or **[▲]** key to display **[Host Interface]**, and then press the **[#Enter]** key.

```
Menu:
Host Interface
```

**3** Press the **[▼]** or **[▲]** key to display **[Network Setup]**, and then press the **[#Enter]** key.

```
Host Interface:
Network Setup
```

- 4 Press the [▼] or [▲] key to display [Frame Type (NW)], and then press the [#Enter] key.

```

Network Setup:
Frame Type (NW)
    
```

- 5 Press the [▼] or [▲] key to select the frame type, and then press the [#Enter] key.

- 6 Press the [Menu] key.

The initial screen appears.

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

 **Reference**

For details about printing the configuration page using control panel, see p.16 “Test Printing”.

---

## Setting the Ethernet Speed

---

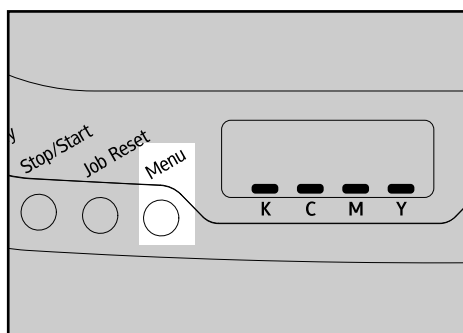
You can set the speed that the printer will use for Ethernet communication. For normal usage, the default setting **[Auto Select]** is suitable and does not need to be changed. This setting allows two connected interfaces to automatically determine the optimum speed that they will communicate at.

Router/HUB	Printer				
	[10Mbps Half D.]	[10Mbps Full D.]	[100Mbps Half D.]	[100Mbps Full D.]	[Auto Select]
10Mbps Half Duplex	○	—	—	—	○
10Mbps Full Duplex	—	○	—	—	—
100Mbps Half Duplex	—	—	○	—	○
100Mbps Full Duplex	—	—	—	○	—
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]**.

- 1 Press the [Menu] key.



- 2 Press the [▼] or [▲] key to display [Host Interface], and then press the [#Enter] key.

```
Menu:
Host Interface
```

- 3 Press the [▼] or [▲] key to display [Network Setup], and then press the [#Enter] key.

```
Host Interface:
Network Setup
```

- 4 Press the [▼] or [▲] key to display [Ethernet Speed], and then press the [#Enter] key.

```
Network Setup:
Ethernet Speed
```

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

- 6 Press the [Menu] key.

The initial screen appears.

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

#### Reference

For details about printing the configuration page using control panel, see p.16 "Test Printing".






# 5. Paper and Other Media

## Paper and Other Media Supported by This Printer

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

### Note

- All paper must be set vertically, regardless of the paper size.

In this manual	On the display	Paper feed direction
 ↑ (Feed direction)	A4 8 1/2 × 11	Short-edge feed direction

### ❖ Input Paper Sizes (Metric version)

	Size (mm)	Size (inch)	Standard Input Tray 1	Paper Feed Unit TK1010 (Tray 2)	Bypass Tray	Duplex
A4	210 × 297	8.26 " × 11.69 "	☆	☆	☆	☆
B5	182 × 257	7.17 " × 10.12 "	☆	×	☆	☆
A5	148 × 210	5.83 " × 8.26 "	☆	×	☆	×
A6	105 × 148	4.13 " × 5.63 "	☆	×	☆	×
Legal	216 × 356	8.5 " × 14 "	☆	×	☆	☆
Letter	216 × 279	8.5 " × 11 "	☆	☆	☆	☆
Executive	184 × 276	7.25 " × 10.5 "	☆	×	☆	☆
F/GL	203 × 330	8 " × 13 "	☆	×	☆	×
Foolscap	216 × 330	8.5 " × 13 "	☆	×	☆	×
Folio	210 × 330	8.25 " × 13 "	☆	×	☆	×
Com10 Env	104.8 × 241.3	4.25" × 9.5"	☆	×	☆	×

	Size (mm)	Size (inch)	Standard Input Tray 1	Paper Feed Unit TK1010 (Tray 2)	Bypass Tray	Duplex
C5 Env	162 × 229	6.38" × 9.02"	☆	×	☆	×
C6 Env	114 × 162	4.49" × 6.38"	☆	×	☆	×
DL Env	110 × 220	4.33" × 8.66"	☆	×	☆	×
Monarch Env	98.4 × 190.5	3.875" × 7.5"	☆	×	☆	×
16K	195 × 267	7.68 " × 10.5 "	☆	×	☆	×
Custom Paper Size	-	-	★	×	★	×

- ☆  
Use the control panel to specify the size.
- ★  
Use the control panel to specify a size as a custom size.  
The following sizes are supported:  
Tray 1 (approximately): width 90 - 216 mm (3.54 - 8.5 inch); length 148 - 356 mm (5.83 - 14 inch)  
Bypass Tray (approximately): width 90 - 216 mm (3.54 - 8.5 inch); length 148 - 356 mm (5.83 - 14 inch)
- ×  
The size is not supported.

❖ Paper weight and number of sheets to be set

	Supported paper weight	Maximum number of sheets (plain paper)
Tray 1	60 - 160 g/m <sup>2</sup> (16 - 42 lb.)	250 (80 g/m <sup>2</sup> , 20 lb.)
Bypass Tray	60 - 160 g/m <sup>2</sup> (16 - 42 lb.)	1
Paper Feed Unit (Tray 2)	60 - 105 g/m <sup>2</sup> (16 - 28 lb.)	500 (80 g/m <sup>2</sup> , 20 lb.)

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

---

# Paper Recommendations

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## Loading Paper

---

### Important

- Do not use ink-jet printer paper because it may stick to the fusing unit and cause a paper misfeed.
- Do not load OHP transparencies. Load translucent media only.
- Set the paper as described below.
  - Tray 1: Print side facing up
  - Bypass Tray: Print side facing down.
  - Paper Feed Unit (Tray 2): Print side facing up
- Print quality cannot be guaranteed if paper other than the ones recommended is used. For more information about recommended paper, contact your sales or service representative.
- Do not use paper that has already been printed onto by other printers.
- When loading the printer, take care not to touch the surface of the paper.
- Do not use dirty or damaged paper.
- Specify the paper size and type using the control panel.
- The remaining paper indicator on the right front side of the paper tray shows approximately how much paper is remaining.

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## Storing Paper

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- Paper should always be stored properly. Improperly stored paper might result in poor print quality, paper misfeeds, or printer damage. Recommendations are as follows:
  - Avoid storing paper in humid areas.
  - Avoid exposing paper to direct sunlight.
  - Store on a flat surface.
- Keep paper in the package in which the paper came.

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## Types of Paper and Other Media

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This section provides information about the types of paper supported by this printer and cautions for use.

## Setting the paper type

Use the control panel or printer driver to specify the paper type you want to use.

### ❖ Control Panel

Press the **[Menu]** key, and then specify the paper type that you want to use by selecting a **[Paper Type]** at **[Paper Input]**.

For details, see p.61 “Specifying a paper type for tray 1 and the optional paper feed unit” and p.67 “Specifying a paper type for the bypass tray”.

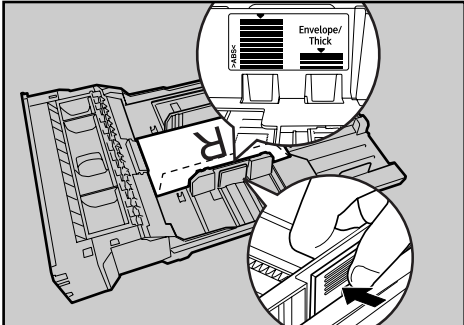
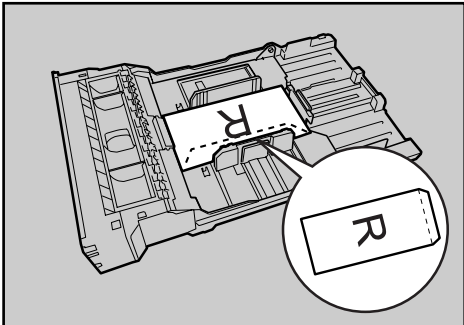
### ❖ Printer driver

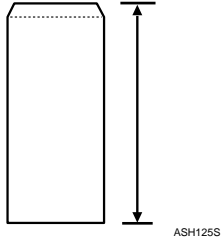
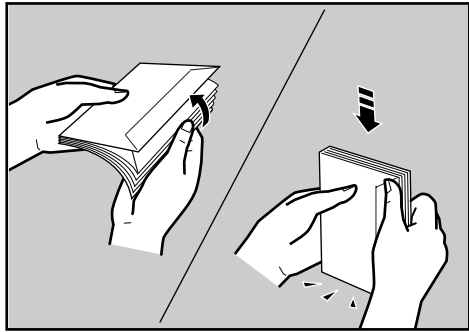
On the printer driver screen, click the **[Paper]** tab, and then select a paper type under **[Paper Type:]**.

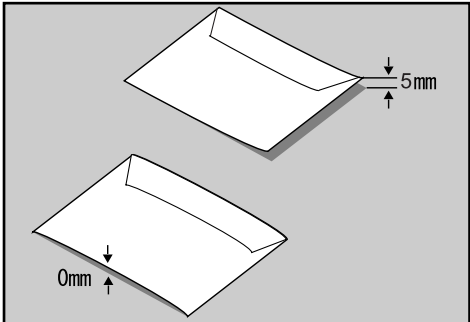
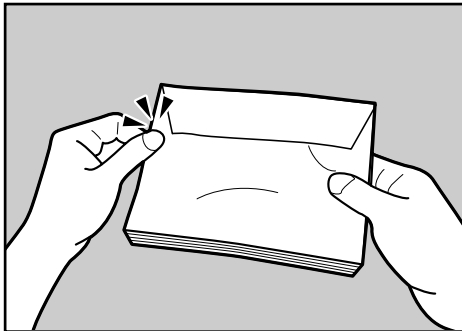
For details about the printer driver, see Help for the driver.

## Types of paper

Paper Type	Thickness (g/m <sup>2</sup> )	Duplex	Enabled paper feeding tray		Note
			Tray 1	Tray 2	
Thin Paper (60-74g/m <sup>2</sup> )	60-74	○	○	○	
Plain Paper 1	75-90	○	○	○	• Default
Plain Paper 2 (91-105g/m <sup>2</sup> )	91-105	×	○	○	• The number of sheets that can be printed in one minute is approximately half that of Plain Paper 1.
Recycled Paper	75-90	○	○	○	• If the paper thickness is outside the specified range, select Thin Paper, Plain Paper 2 (91-105 g/m <sup>2</sup> ) or Thick Paper.
Color Paper	75-90	○	○	○	
Preprinted Paper	75-90	○	○	○	
Prepunched Paper	75-90	○	○	○	
Thick Paper 1 (106-160g/m <sup>2</sup> )	106-160	×	×	×	• The number of sheets that can be printed in one minute is approximately half that of Plain Paper 1.
Letterhead	75-90	○	○	○	• Paper that has a thickness outside the specified range cannot be printed.
Bond Paper	105-160	×	○	×	• The number of sheets that can be printed in one minute is approximately half that of Plain Paper 1. • If the paper thickness is outside the specified range, select Plain Paper 2 (91-105 g/m <sup>2</sup> ).
Cardstock	105-160	×	○	×	• The number of sheets that can be printed in one minute is approximately half that of Plain Paper 1. • Paper thicker than 160g/m <sup>2</sup> cannot be printed.
Label Paper		×	○	×	• The number of sheets that can be printed in one minute is approximately half that of Plain Paper 1.

Paper Type	Thickness (g/m <sup>2</sup> )	Duplex	Enabled paper feeding tray		Note
			Tray 1	Tray 2	
Envelope		×	○	×	<ul style="list-style-type: none"> <li>The number of envelopes that can be printed in one minute is approximately half that of Plain Paper 1.</li> <li>To prevent the envelopes becoming creased, go to the <b>[Setup]</b> tab and select <b>[Rotate by 180 degrees]</b> for <b>[Orientation:]</b> when printing.</li> <li>If printed envelopes come out badly creased, load the envelopes in the opposite direction. Also, configure the printer driver to rotate the print object 180 degrees.</li> <li>Load envelopes print side down in the bypass tray.</li> </ul>  <p style="text-align: right; font-size: small;">ASH120S</p> <ul style="list-style-type: none"> <li>The loading orientation of envelopes depends on the type of envelope. To load envelopes that open along the short edge, open out their flaps and place the envelopes so that their flaps point toward the back of the tray. To load envelopes that open along the long edge, fold their flaps under (as if closed) and place the envelopes so that their flap edges are flush against the right side paper guide.</li> </ul>  <p style="text-align: right; font-size: small;">ASH124S</p>

Paper Type	Thickness (g/m <sup>2</sup> )	Duplex	Enabled paper feeding tray		Note
			Tray 1	Tray 2	
Envelope		×	○	×	<ul style="list-style-type: none"> <li>To correctly specify the length of an envelope whose flap opens along its short edge, be sure to include the open flap when measuring.</li> </ul>  <p style="text-align: center; font-size: small;">ASH125S</p> <ul style="list-style-type: none"> <li>Environmental factors can degrade the print quality on both recommend and non-recommended envelopes.</li> <li>Fan envelopes, and then align their edges before loading.</li> </ul>  <p style="text-align: right; font-size: small;">ASH121S</p> <ul style="list-style-type: none"> <li>When fanning envelopes, make sure they are not stuck together. If they are stuck together, separate them.</li> <li>When fanning envelopes, make sure the envelope flaps are not stuck together. If they are stuck together, separate them.</li> </ul>

Paper Type	Thickness (g/m <sup>2</sup> )	Duplex	Enabled paper feeding tray		Note
			Tray 1	Tray 2	
Envelope		×	○	×	<ul style="list-style-type: none"> <li>Before loading envelopes, flatten them out so that their curl does not exceed that shown in the illustration below.</li> </ul>  <p style="text-align: right; font-size: small;">ASH122S</p> <p>If the curl is severe, flatten out the envelopes using your fingers, as shown in the illustration below.</p>  <p style="text-align: right; font-size: small;">ASH123S</p> <ul style="list-style-type: none"> <li>If envelopes are severely curled after printing, flatten them by bending them back against the curl.</li> <li>After printing, envelopes sometimes have creases along their long edges and toner smear on their unprinted sides. Their print images might also be blurred. When printing large, black-solid areas, striping can occur as a result of the envelopes overlapping.</li> </ul>



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## Paper not Supported by This Printer

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

- Paper meant for an ink-jet printer
- Bent, folded, or creased paper
- Curled or twisted paper
- Torn paper
- Wrinkled paper
- Damp paper
- Paper that is dry enough to emit static electricity
- Paper that has already been printed onto, except a preprinted letterhead.

Malfunctions are especially likely when using paper printed on by other than a laser printer (e.g. monochrome and color copiers, ink-jet printers, etc.)

- Special paper, such as thermal paper, aluminum foil, carbon paper and conductive paper
- Paper whose weight is heavier or lighter than the limitation
- Paper with windows, holes, perforations, cutouts, or embossing
- Adhesive label paper on which glue or base paper is exposed
- Paper with clips or staples

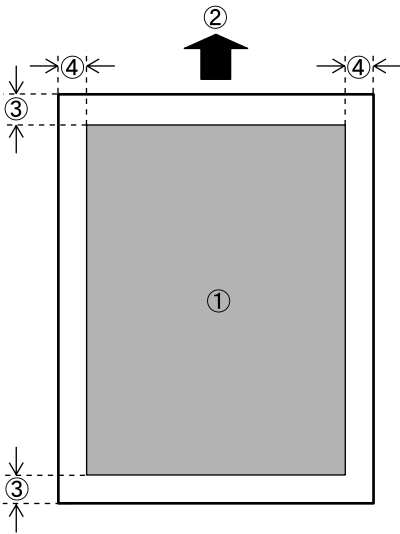
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## Print Area

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

### ❖ Paper

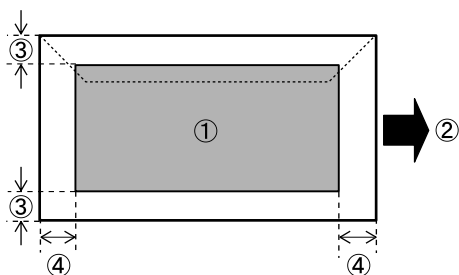


- ① Print area
- ② Feed direction
- ③ Approx. 4.2 mm (0.17 inches)
- ④ Approx. 4.2 mm (0.17 inches)

### Note

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

## ❖ Envelope



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

### Note

- The print area may vary depending on the paper size, printer language and printer driver settings.
- For better print quality, we recommend the right, left, top, and bottom print margins to be at least 15 mm (0.6 inches) each.

# Loading Paper

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

## **⚠ WARNING:**

- ***Do not put your hands inside the printer when the input tray is removed. Some internal parts become hot and are a burn hazard.***

## **⚠ CAUTION:**

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

---

## Loading Paper in Tray 1

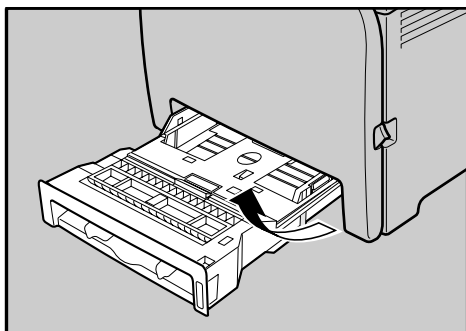
---

The following example explains the loading procedure for the standard paper tray (Tray 1).

### **🔊 Important**

- Make sure paper is not stacked above the limit mark inside the tray. Misfeeds might occur.
- After loading paper in the tray, specify the paper type and size using the control panel.
- Do not mix different types of paper in the same paper tray.
- Do not move the side paper guides forcefully. Doing so can damage the tray.
- Do not move the end paper guide forcefully. Doing so can damage the tray.
- When inserting the tray, make sure it is not slanted. Inserting it at a slant can damage the printer.
- Curled paper may jam, straighten curled paper before loading.

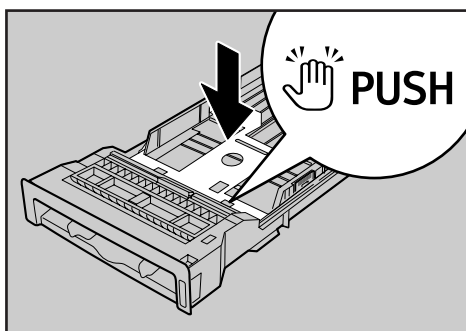
- 1** Lift and pull Tray 1 carefully, and then pull it out with both hands.



ASH137S

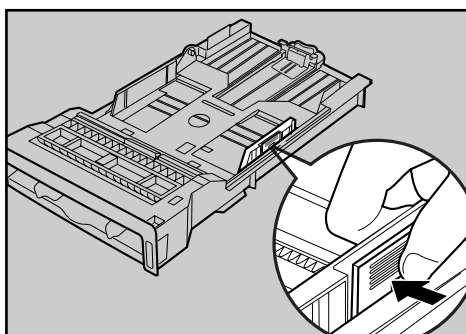
Place the tray on a flat surface.

**2** Push the metal plate down until it clicks into place to lock.

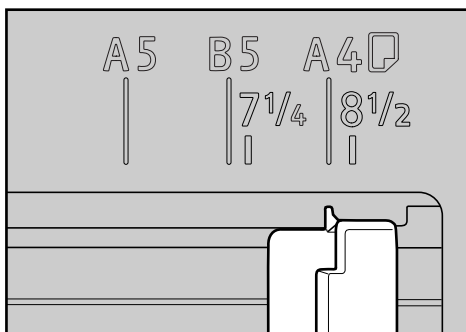


ASH138S

**3** Pinch the clip on the side paper guide and slide it to match the standard size.



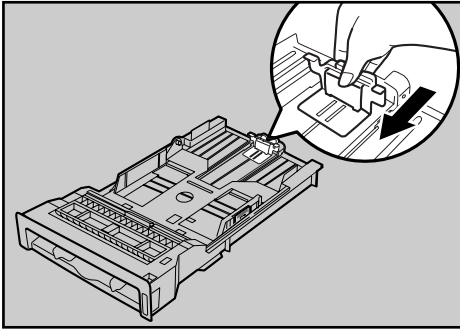
ASH139S



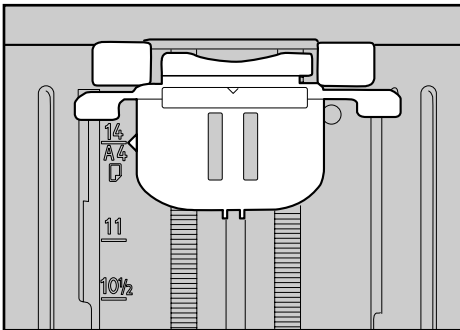
ASH093S

When loading custom size paper, position the paper guide slightly wider than the actual paper size.

- 4** Pinch the front end paper guide and slide it inward to match the standard size.



ASH141S

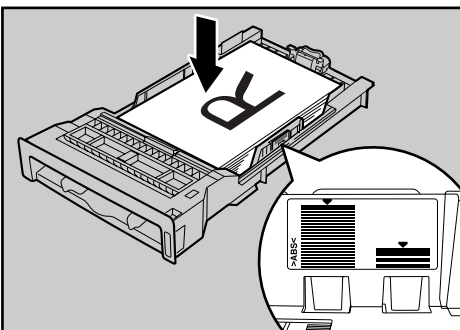


ASH126S

When loading custom size paper, position the paper guide slightly wider than the actual paper size.

- 5** Load the new paper stack print side up.

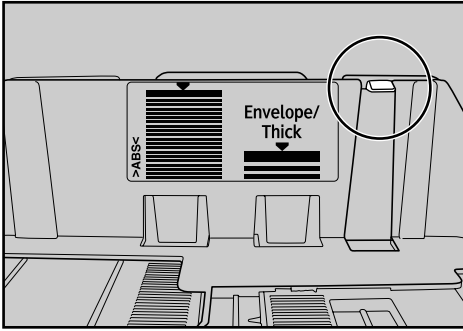
Make sure paper is not stacked higher than the upper limit (upper line) marked inside the tray.



ASH140S

Slide the guides inward, until they are flush against the paper's sides.

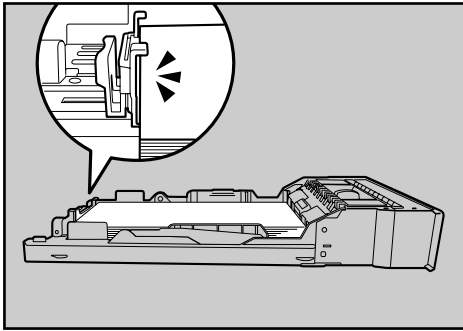
Make sure the paper is not stacked higher than the projection on the side paper guides.



ASH094S

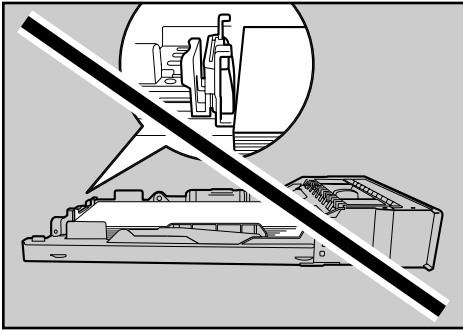
**6** Check there are no gaps between the paper and the paper guides, both side and front end paper guides.

5



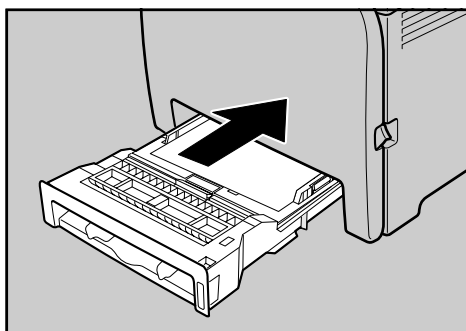
ASH142S

If there is a gap between the paper and the front end paper guide, as in the example below, the paper might not feed in correctly.



ASH143S

- 7** Hold the tray with both hands, slide it along the rails of the printer body, and then push it straight in.



ASH037S

To avoid paper jams, make sure the tray is securely inserted.

**Note**

- The upper limit differs depending on paper type; thin paper or thick paper. Check the label inside the tray to confirm the upper limit.

**Reference**

For details about paper types supported by the printer, see p.39 “Paper Recommendations”.

For details about the paper settings, see Software Guide.

5

## Loading Legal size paper

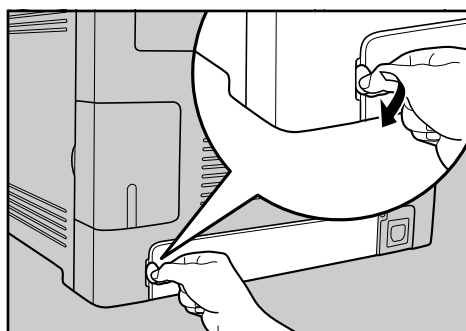
This section describes how to load Legal size paper into the printer.

The same procedure applies to A4 paper (297 mm) or larger.

**Important**

- Do not move the side paper guide forcefully. Doing so can damage the tray.
- Do not move the end paper guide forcefully. Doing so can damage the tray.
- When inserting the tray, make sure it is not slanted. Inserting it at a slant can damage the printer.

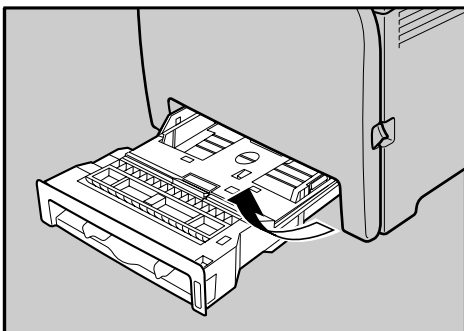
- 1** Remove the rear cover using a coin.



ASH070S



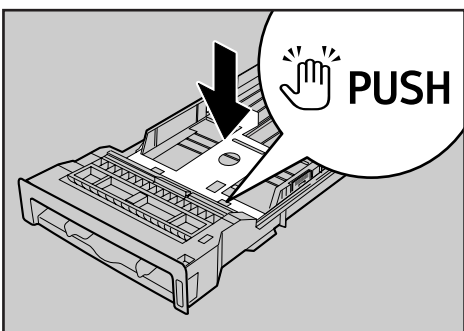
- 2** Pull Tray 1 carefully, then hold it with both hands and pull it out.



ASH137S

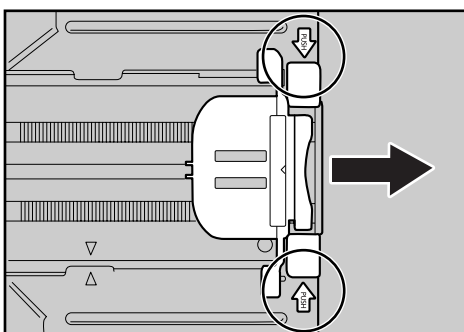
Place the tray on a flat surface.

- 3** Push the metal plate down until it clicks into place to lock.



ASH138S

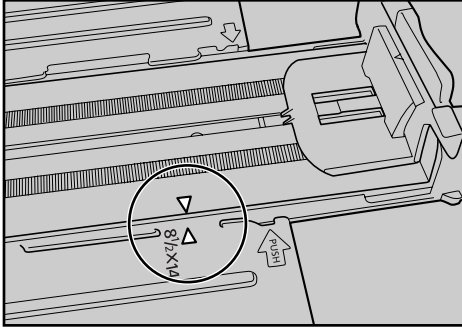
- 4** Pinch the extender in the "PUSH" direction, and then pull out the extender until it stops (you will hear a click).



ASH095S

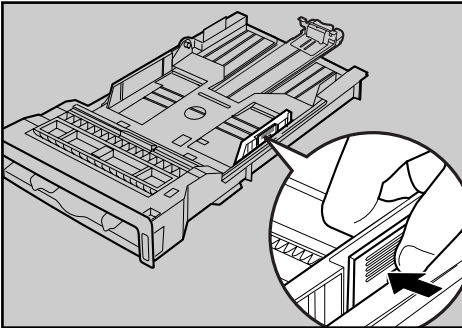
5

After extension, make sure the arrows on the extender and tray are aligned.

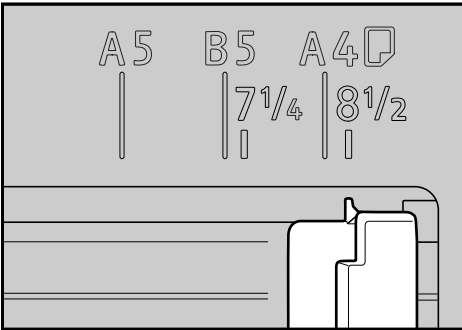


ASH096S

- 5** Pinch the clip on the side paper guide, and then slide it to match the standard size.

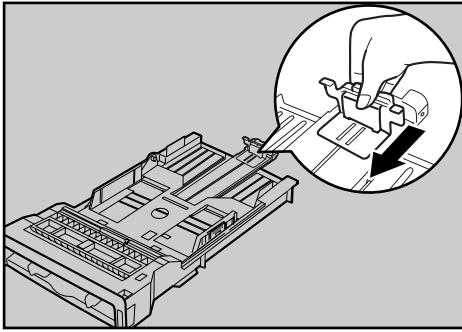


ASH144S



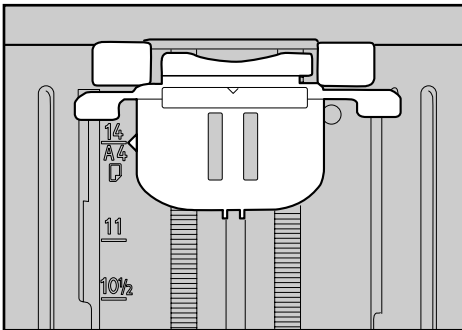
ASI104S

**6** Pinch the front end paper guide and slide it inward to match the legal paper size.



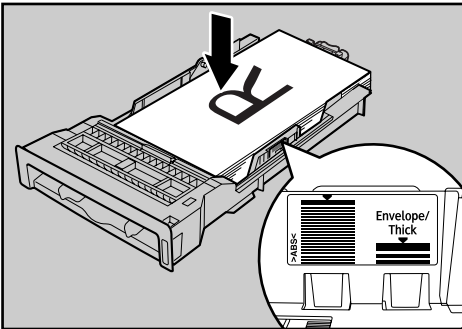
ASH145S

5



ASH126S

**7** Load the new paper stack print side up.

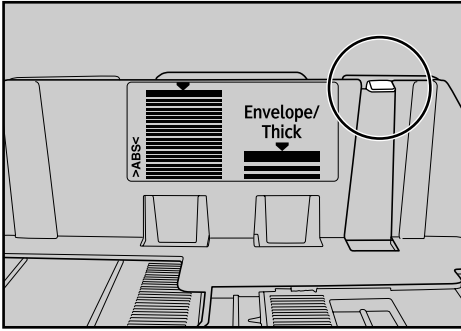


ASH146S

Make sure paper is not stacked higher than the upper limit (upper line) marked inside the tray.

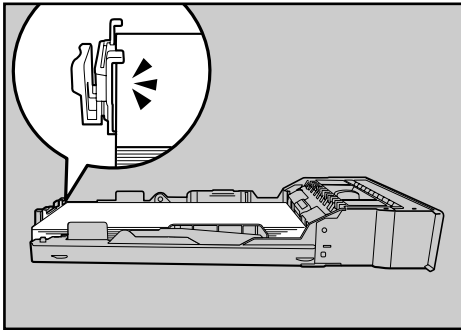
Slide the guides inward until they are flush against the paper's sides.

Make sure the paper is not stacked higher than the projection on the side paper guides.



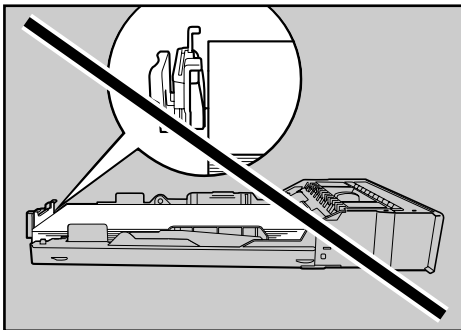
ASH094S

- 8** Check there are no gaps between the paper and the paper guides; both side and front end paper guides.



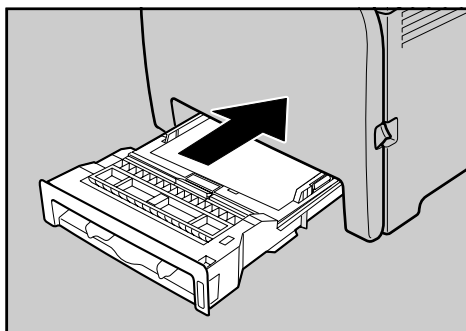
ASH147S

If there is a gap between paper and the front end paper guide, as in the example below, the paper might not feed in correctly.



ASH148S

**9** Carefully push Tray 1 straight into the printer.



To avoid paper jams, make sure the tray is securely inserted.

**Note**

- To reinsert the extender, you might have to push it with moderate force.

**Reference**

For details about paper types supported by the printer, see p.39 “Paper Recommendations”.

For details about the paper settings, see Software Guide.

5

---

## Loading envelopes

---

**Important**

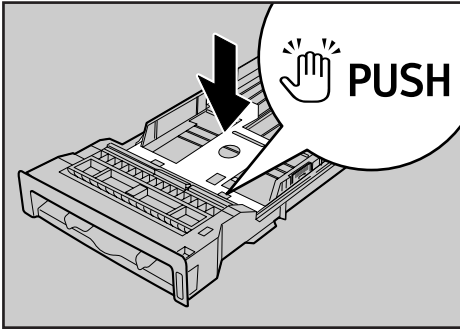
- Check there is no air in the envelopes before loading.
- Load only one size and type of envelope at a time.
- Before loading envelopes, flatten their leading edges (the edge going into the printer) by running a pencil or ruler across them.
- Some kinds of envelope might cause misfeeds, wrinkles or print poorly.
- Print quality on envelopes may be uneven if parts of an envelope have different thicknesses. Print one or two envelopes to check print quality.
- In a hot and humid environment, the envelope might be output creased or improper printing quality.

**1** Lift and pull Tray 1 carefully, then pull it out with both hands.

Place the tray on a flat surface.

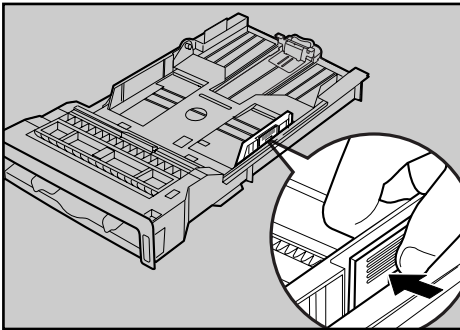
**2** Take out paper from Tray 1.

- 3** Push the metal plate down until it clicks into place to lock.



ASH138S

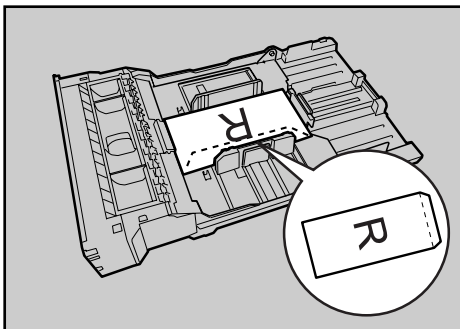
- 4** Pinch the clip on the side paper guide, and then adjust the guides to the envelope.



ASH139S

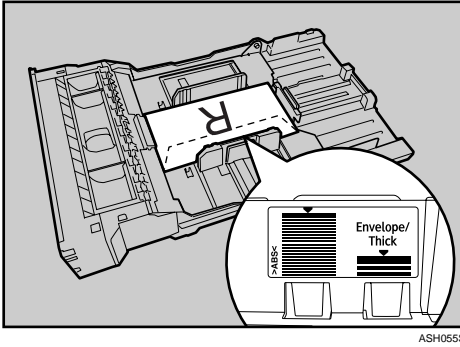
- 5** Pinch the clip on the front end paper guide to match the envelope size.

- 6** Set the envelopes in Tray 1 with the printing side facing up.



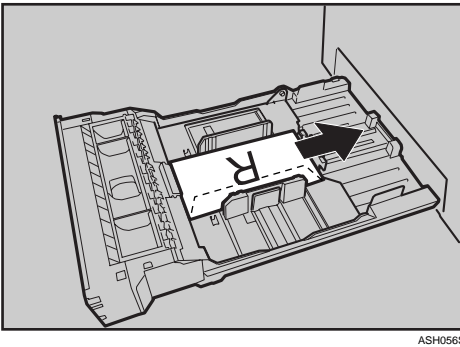
ASH124S

Make sure envelopes are not stacked higher than the upper limit (lower line) mark inside the tray.



**7** Carefully slide the paper tray back in until it stops. To avoid paper jams, make sure the tray is securely inserted.

5



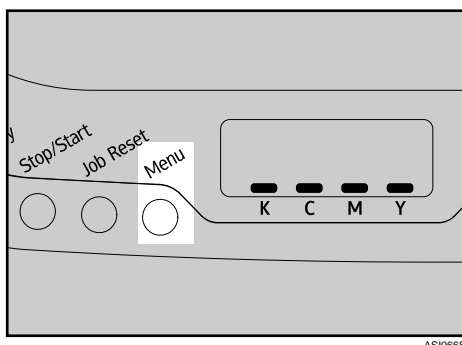
**Note**

- Be sure to load envelopes so that their flaps are on the right. If you do not, the envelopes will become creased.
- To prevent the envelopes becoming creased, go to the **[Setup]** tab and select **[Rotate by 180 degrees]** for **[Orientation:]** when printing in the printer driver properties dialog box.

## Setting a paper size by using the control panel

To load paper whose size cannot be selected automatically, set the paper size on the control panel. Follow the procedure described below to set the paper size.

- 1 Press the [Menu] key.



- 2 Press the [▼] or [▲] key to display [Paper Input], and then press the [#Enter] key.

```
Menu:
Paper Input
```

- 3 Press the [▼] or [▲] key to display [Paper Size], and then press the [#Enter] key.

```
Paper Input:
Paper Size
```

- 4 Press the [▼] or [▲] key to display the target paper tray, and then press the [#Enter] key.

In this example, tray 1 is selected.

```
Paper Size:
Tray 1
```

- 5 Press the [▼] or [▲] key to display the loaded paper size, and then press the [#Enter] key.

```
220-240V
```

```
Tray 1 Size:
A4 (210 x 297)
```

```
120V
```

```
Tray 1 Size:
8 1/2 x 11
```



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

The initial screen appears.

---

**Specifying custom size paper for tray 1**

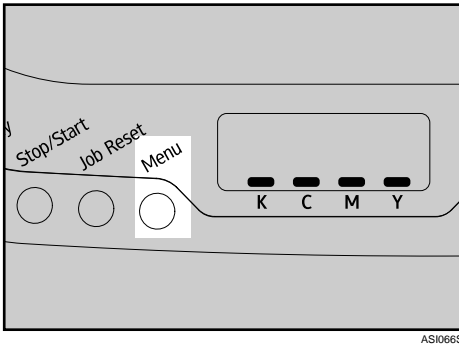
---

**Important**

- When printing on custom size paper, specify the paper size using the control panel or printer driver.
- Custom size paper selected using the printer driver overrides that selected using the control panel. Do not make settings using the control panel if you have already made settings using the printer driver.
- Paper sizes between 90 - 216 mm (3.54 - 8.5 inch) in width and 148 - 356 mm (5.83 - 14 inch) in length can be loaded in the tray 1.
- The printer cannot print from applications that do not support custom size paper.

5

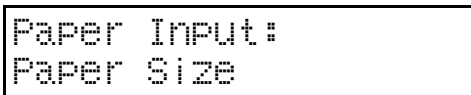
**1** Press the **[Menu]** key.



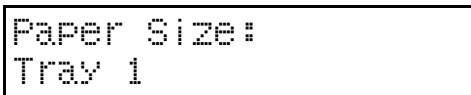
**2** Press the **[▼]** or **[▲]** key to display **[Paper Input]**, and then press the **[#Enter]** key.



**3** Press the **[▼]** or **[▲]** key to display **[Paper Size]**, and then press the **[#Enter]** key.



**4** Press the **[▼]** or **[▲]** key to display **[Tray 1]**, and then press the **[#Enter]** key.



For example, **[Tray 1]** is selected for Tray 1 as shown.

- 5** Press the [▼] or [▲] key to display [Tray 1 Size: Custom Size], and then press the [#Enter] key.

```
Tray 1 Size:
Custom Size
```

- 6** Press the [▼] or [▲] key to select a unit, and then press the [#Enter] key.

```
Custom Size:
mm
```

- 7** Press the [▼] or [▲] key to enter the horizontal value, and then press the [#Enter] key.

```
Custom Size:
Horiz. 216.0 mm
```

- 8** Press the [▼] or [▲] key to enter the vertical value, and then press the [#Enter] key.

```
Custom Size:
Vert. 356.0 mm
```

- 9** Press the [Menu] key.

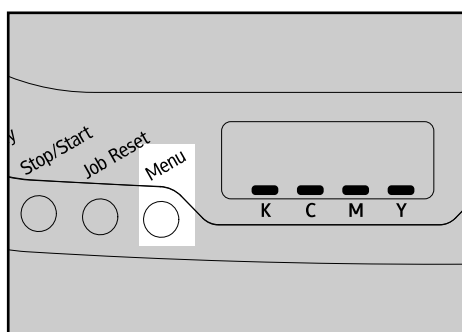
The initial screen appears.

## Specifying a paper type for tray 1 and the optional paper feed unit

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

- Thin Paper (60 - 74 g/m<sup>2</sup>), Plain Paper 1 , Plain Paper 2 (91 - 105 g/m<sup>2</sup>), Recycled Paper, Color Paper, Preprinted Paper, Prepunched Paper, Letterhead

- 1** Press the [Menu] key.



ASI066S

- 2** Press the [▼] or [▲] key to display [Paper Input], and then press the [#Enter] key.

```
Menu:
Paper Input
```

- 3** Press the [▼] or [▲] key to display [Paper Type], and then press the [#Enter] key.

```
Paper Input:
Paper Type
```

- 4** Press the [▼] or [▲] key to select the paper tray, and then press the [#Enter] key.  
In this example, tray 1 is selected.

```
Paper Type:
Tray 1
```

5

- 5** Press the [▼] or [▲] key to select the paper type, and then press the [#Enter] key.

```
Tray 1:
Plain Paper 1
```

- 6** Press the [Menu] key.

The initial screen appears.

 **Note**

- Plain Paper 2 (91 - 105 g/m<sup>2</sup>) cannot be printed on both sides.

---

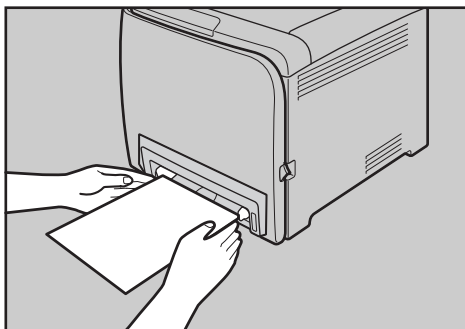
## Loading Paper in the Bypass Tray

---

### Important

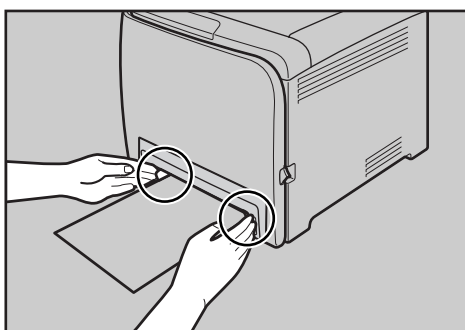
- Set the size and direction of the loaded paper using the printer driver. Make sure the settings do not conflict. Otherwise, the paper may jam or the print quality may be affected.
- Load paper with the print side down and in the short-edge feed direction.
- Duplex printing is not possible.
- You cannot use the bypass tray to feed in paper that requires a specified printing position (such as preprinted paper). Use Tray 1 for such paper.
- If paper is curled, straighten it before loading, by bending it the paper in the opposite direction to the curl, for example.
- Do not load paper while the printer is printing.
- Tray 1 and 2 are unavailable while paper is being loaded in the Bypass Tray.
- You cannot load paper when the printer is in Energy Saver mode. To disable Energy Saver mode, click the **[Stop/Start]** key on the control panel.

### **1** Insert the top edge of the paper into the printer.



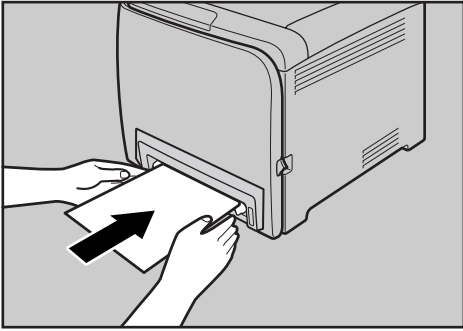
ASH057S

### **2** Adjust the paper guides to the paper size.



ASH058S

**3** Support the paper with your hands, and insert it carefully until it stops.



ASH060S

**4** Start the printer driver and specify the paper size.

**5** Start printing.

 **Reference**

For details about specifying the paper sizes, see the Printer driver help.

5

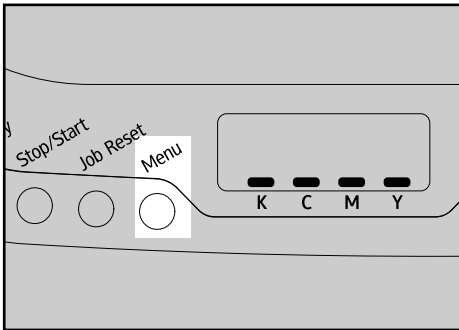
---

### Specifying standard size paper for the bypass tray

---

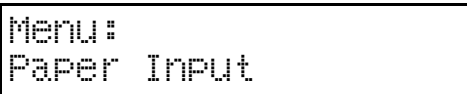
This describes how to load standard size paper into the bypass tray.

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



ASI066S

**2** Press the [▼] or [▲] key to display [Paper Input], and then press the [#Enter] key.



- 3** Press the [▼] or [▲] key to display [Paper Size], and then press the [#Enter] key.

```
Paper Input:
Paper Size
```

- 4** Press the [▼] or [▲] key to display [Bypass Tray], and then press the [#Enter] key.

```
Paper Size:
BYPASS TRAY
```

- 5** Press the [▼] or [▲] key to select the paper size you want to set, and then press the [#Enter] key.

```
220-240V
```

```
Bypass Size:
A4 (210 X 297)
```

```
120V
```

```
Bypass Size:
8 1/2 X 11
```

- 6** Press the [Menu] key.

The initial screen appears.

 **Note**

- The number of pages that can be loaded in the bypass tray differs depending on the paper type. Make sure paper is not stacked above the paper guides inside the bypass tray.

---

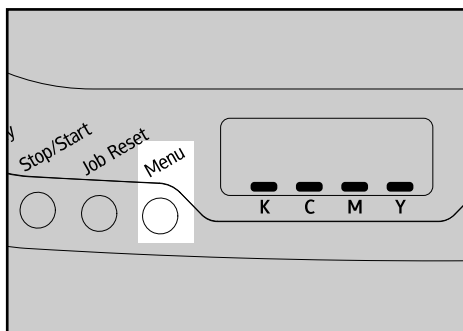
## Specifying custom size paper for the bypass tray

---

### Important

- When loading custom size or special paper, specify the paper size using the control panel or printer driver.
- The custom paper size selected using the printer driver overrides that selected using the control panel. Do not configure the settings using the control panel if you have already made the settings using the printer driver.
- You cannot print on custom size paper with an application that does not support the custom size setting.
- Paper sizes between 90 - 216 mm (3.54 - 8.5 inch) in width and 148 - 356 mm (5.83 - 14 inch) in length can be loaded in the bypass tray.

- 1 Press the [Menu] key.



- 2 Press the [▼] or [▲] key to display [Paper Input], and then press the [#Enter] key.

5

```
Menu:
Paper Input
```

- 3 Press the [▼] or [▲] key to display [Paper Size], and then press the [#Enter] key.

```
Paper Input:
Paper Size
```

- 4 Press the [▼] or [▲] key to display [Bypass Tray], and then press the [#Enter] key.

```
Paper Size:
Bypass Tray
```

- 5 Press the [▼] or [▲] key to display [Custom Size], and then press the [#Enter] key.

```
Bypass Size:
Custom Size
```

- 6 Press the [▼] or [▲] key to select a unit, and then press the [#Enter] key.

```
Custom Size:
mm
```

- 7** Press the [▼] or [▲] key to enter the horizontal value, and then press the [#Enter] key.

```
Custom Size:
Horiz. 216.0 mm
```

- 8** Press the [▼] or [▲] key to enter the vertical value, and then press the [#Enter] key.

```
Custom Size:
Vert. 356.0 mm
```

- 9** Press the [Menu] key.

The initial screen appears.

### Reference

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

5

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## Specifying a paper type for the bypass tray

---

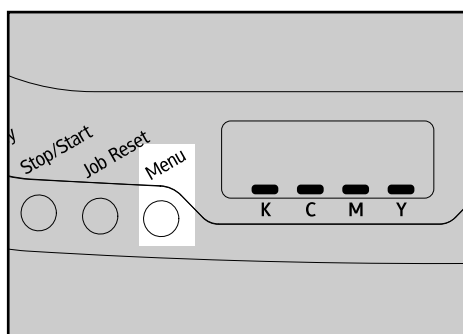
By selecting the paper type you want to load, the printer performs better. You can select from the following paper types:

- Thin Paper (60 - 74 g/m<sup>2</sup>), Plain Paper 1, Plain Paper 2 (91 - 105 g/m<sup>2</sup>), Recycled Paper, Color Paper, Preprinted Paper, Prepunched Paper, Thick Paper 1 (106 - 160 g/m<sup>2</sup>), Letterhead, Bond Paper, Cardstock, Label Paper, Envelope

### Important

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

- 1** Press the [Menu] key.



AS1066S



- 2 Press the [▼] or [▲] key to display [Paper Input], and then press the [#Enter] key.



- 3 Press the [▼] or [▲] key to display [Paper Type], and then press the [#Enter] key.



- 4 Press the [▼] or [▲] key to display [Bypass Tray], and then press the [#Enter] key.



5

- 5 Press the [▼] or [▲] key to select the paper type, and then press the [#Enter] key.



- 6 Press the [Menu] key.

The initial screen appears.

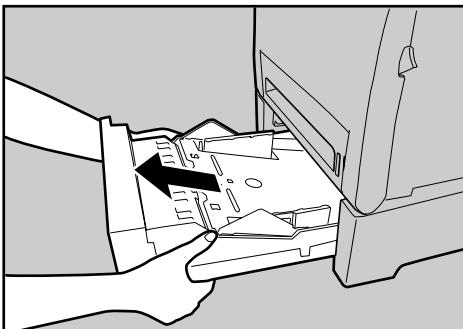
---

## Loading Paper in the Optional Paper Feed Unit

---

The following example explains the loading procedure for the optional paper feed unit.

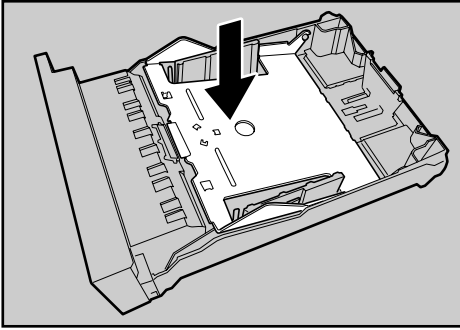
- 1 Lift and pull the optional paper feed unit, and then hold the tray with both hands, and then pull it out.



ASH076S

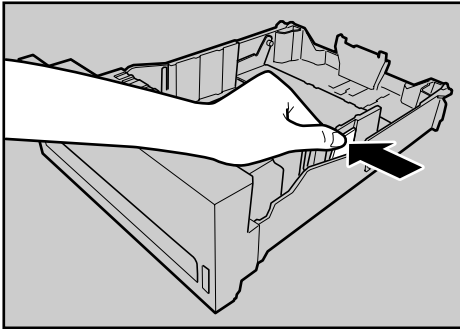
Place the tray on a flat surface.

- 2** Press down on the bottom plate until it clicks.



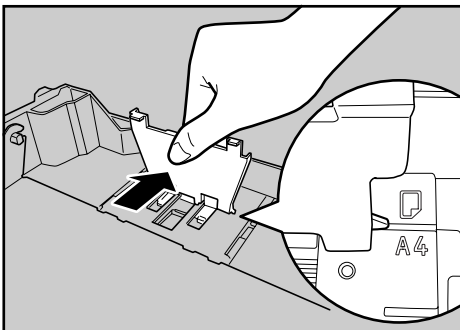
ASH077S

- 3** Pinch the clips on the side paper guide, and then adjust the guide to the paper size.



ASH078S

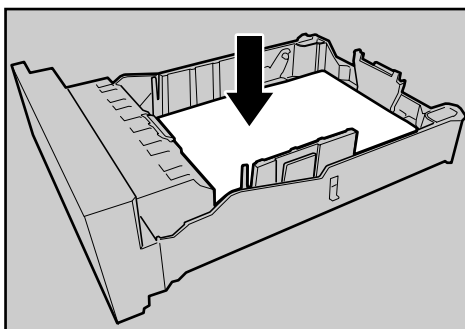
- 4** Pinch the clip on the end paper guide and align the arrow with the paper size.



ASH097S

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

Make sure paper is not stacked higher than the upper limit (upper line) marked inside the tray.



ASH080S

**6** Lift and slide the tray, then push it all the way in. Push the tray firmly to avoid a paper jam.

5



ASH081S

# 6. Replacing Consumables

## Replacing the Print Cartridge

### **WARNING:**

- ***Do not incinerate used toner or toner containers. Toner dust might ignite when exposed to an open flame. Dispose of used toner containers in accordance with local regulations.***
- ***Do not store toner, used toner, or toner containers in a place with an open flame. The toner might ignite and cause burns of a fire.***

### **CAUTION:**

- *Keep toner (used or unused) and toner containers out of reach of children.*
- *If toner or used toner is inhaled, gargle with plenty of water and move into a fresh air environment. Consult a doctor if necessary.*
- *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.*
- *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.*
- *Be careful not to trap your fingers when opening or closing the top cover.*

### **Important**

- Store print cartridges in a cool dark place.
- Actual printable numbers vary depending on image volume and density, number of pages printed at a time, paper type and size, and environmental conditions such as temperature and humidity. Toner quality degrades over time. Early replacement of the print cartridge might be necessary. Therefore, we recommend you always keep a new print cartridge ready.
- For good print quality, the supplier recommends that you use genuine toner from the supplier.
- The supplier shall not be responsible for any damage or expense that might result from the use of parts other than genuine parts from the supplier with your office products.

❖ **When to replace the print cartridge**

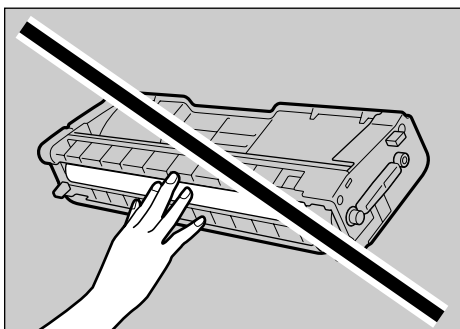
If the **Alert** indicator on the control panel lights up and the following message appears on the display, replace the print cartridge:

“Replace (Color) Print Cartridge”

- 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 print cartridge is replaced.

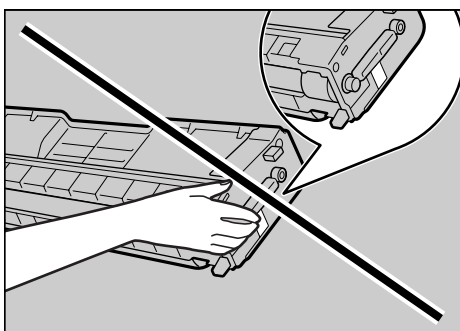
**Important**

- Do not allow paper clips, staples, or other small metallic objects to fall inside the machine.
- Do not expose the print cartridge without its cover to direct sunlight for a long time.
- Do not touch the print cartridge's photo conductor unit.



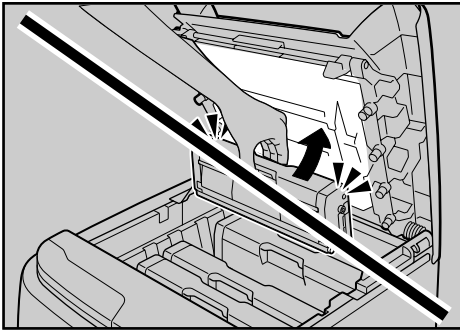
BAA162S

- Do not touch the ID chip on the side of the print cartridge.



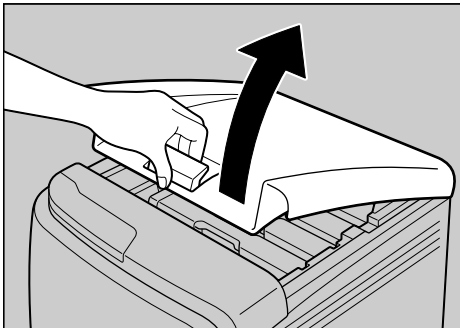
ASI600S

- ❑ When removing print cartridges, be careful not to touch the Laser Scanning Unit on the underside of the upper cover (the white area in the illustration below).



ASH106S

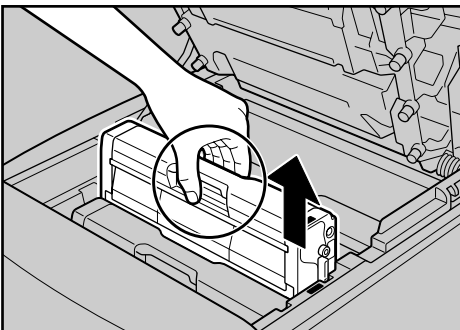
- 1** Pull up Top Cover Open Lever to open the top cover.



ASH004S

From the rear, the print cartridges are installed in the order of cyan (C), magenta (M), yellow (Y), and black (K).

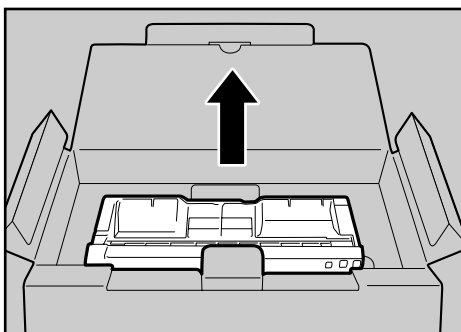
- 2** Gripping its center, carefully pull the print cartridge upward and out.



ASH005S

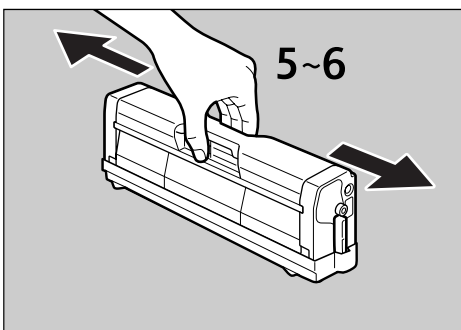
- Do not shake the removed print cartridge. Remaining toner may leak.
- Place the old print cartridge on paper or some other material to avoid dirt-ying your workspace.
- Color is labeled on each print cartridge.

- 3 Take the new print cartridge out of the box, and then take it out of the plastic bag.



ASH006S

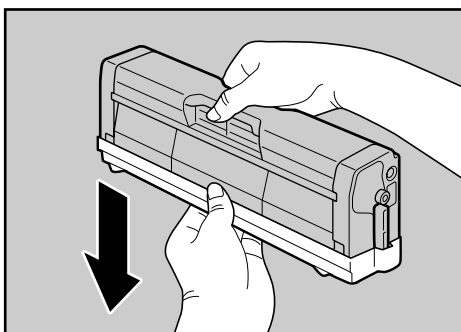
- 4 Hold the print cartridge and shake it from side to side five or six times.



AS1601S

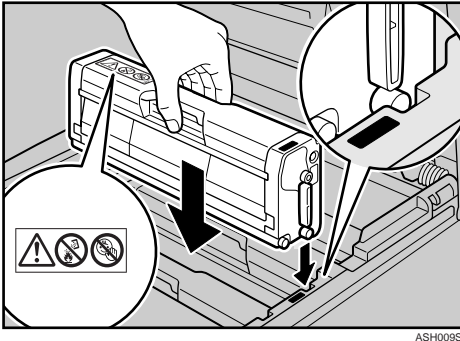
Even distribution of toner within the bottle improves print quality.

- 5 Remove the cover from the print cartridge.

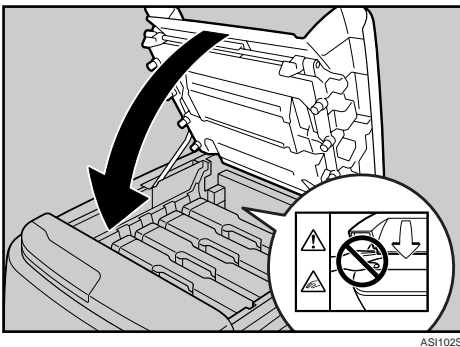


ASH006S

- 6** Check the toner color and location correspond, and carefully insert the print cartridge vertically.



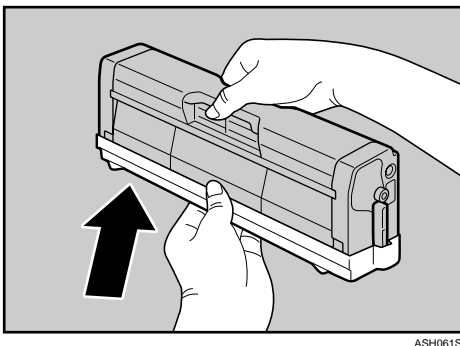
- 7** Close the top cover with both hands carefully. Be careful not to trap your fingers.



Wait while the toner loads.

To avoid malfunction, do not turn off the power while “Loading Toner...” appears on the display.

- 8** Put the cover that you removed in step 5 on the old print cartridge. Then, put the old print cartridge into the bag, and then put it into the box.



**Note**

- Make sure to cover the old print cartridge with the protective cover for recycling and environmental purposes.
- Comply with the print cartridge Recycling Program, whereby used print cartridges are collected for processing. For details, ask your sales or service representative.



# Replacing the Waste Toner Bottle

**⚠ WARNING:**

- **Do not incinerate spilled toner or used toner. Toner dust might ignite when exposed to an open flame.**
- **Wait for 30 minutes or more after disconnecting the power plug before removing the transfer unit.**
- **Do not incinerate used toner or toner containers. Toner dust might ignite when exposed to an open flame. Dispose of used toner containers in accordance with local regulations.**

**⚠ CAUTION:**

- *The inside of this printer becomes very hot. Do not touch parts labelled “⚠” (indicating a hot surface).*
- *Keep toner (used or unused) and toner containers out of reach of children.*

**❖ When to replace the waste toner bottle**

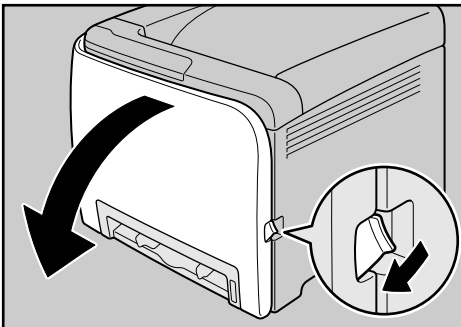
If the **Alert** indicator on the control panel lights up and the following message appears on the display, replace the waste toner bottle:

“Replace Waste Toner”

**🔊 Important**

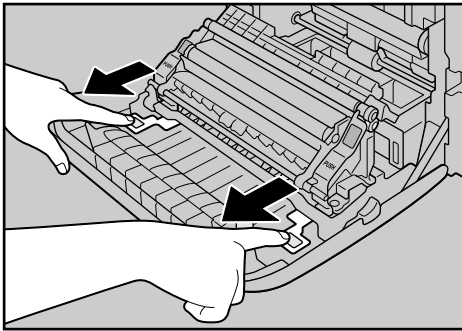
- Waste toner bottles cannot be reused.
- Purchasing and storing extra waste toner bottles is recommended.
- When removing the waste toner bottle, make sure not to tilt it.
- Keep the waste toner bottle horizontal as you take it out.
- Make sure that the transfer unit is installed. If the transfer unit is not installed, install it before turning the power on.
- Cooperate with the waste toner bottle Recycling Program, whereby used waste toner bottles are collected for recycling.

**1** Pull Front Cover Open Lever, and then open the front cover with both hands carefully.



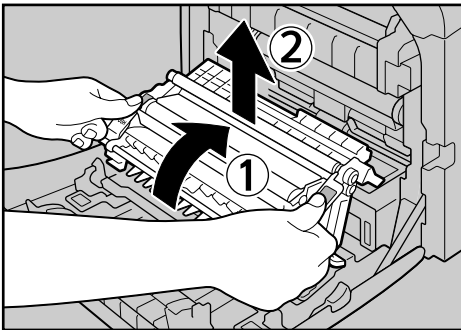
ASH011S

- 2** Slide both levers on the front cover outward.



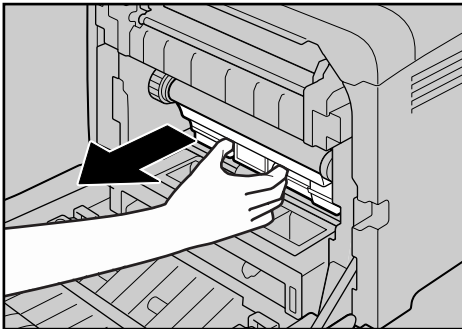
ASH012S

- 3** Hold both ends of the transfer unit, and then lift it up.



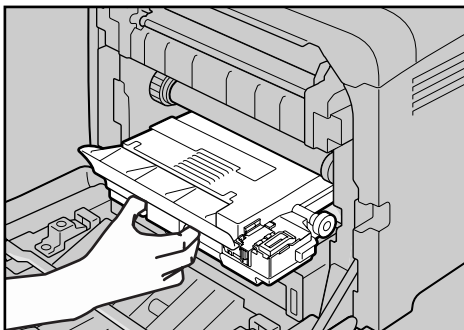
ASH013S

- 4** Hold the center of the waste toner bottle, and then carefully pull it out horizontally.

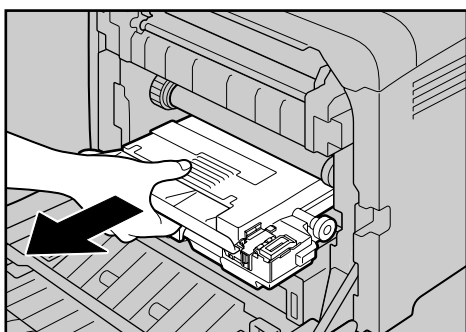


ASH040S

- 5** Pull the waste toner bottle halfway out, grab the bottle, and then pull it straight out.

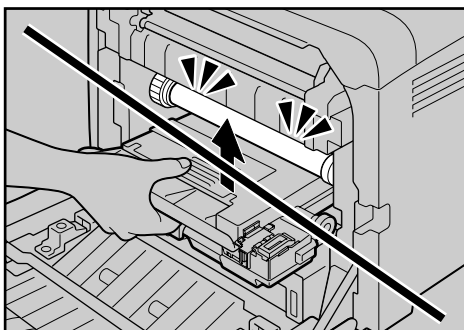


ASH082S



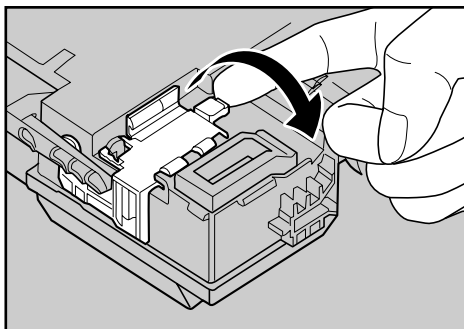
ASH041S

To prevent the waste toner bottle touching the intermediate transfer unit, do not lift the bottle while pulling it out.

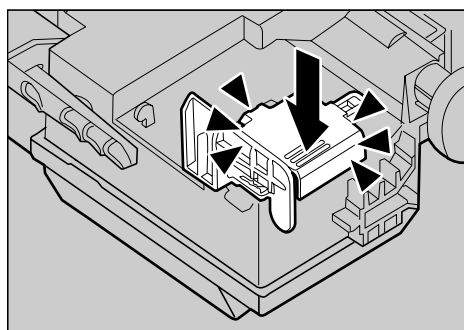


ASH042S

**6** Close the bottle cap.



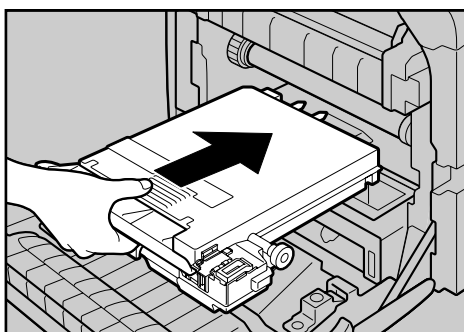
AS1089S



BAA063S

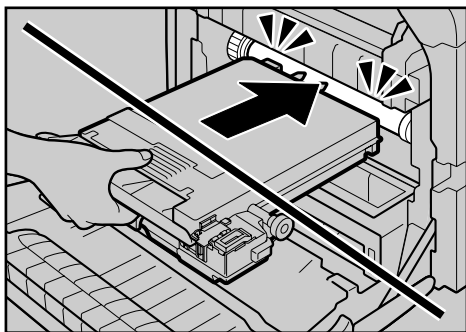
6

**7** Hold the center of the new waste toner bottle, and then carefully insert it halfway into the printer body. Leave the cap open.



ASH044S

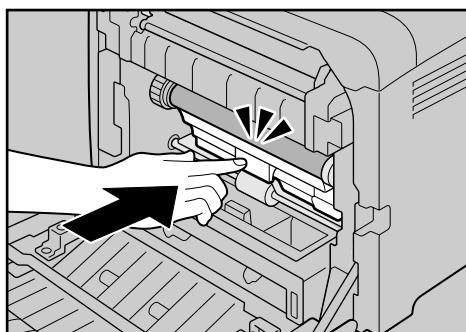
To prevent the waste toner bottle touching the intermediate transfer unit, do not lift the bottle while inserting it.



ASH045S

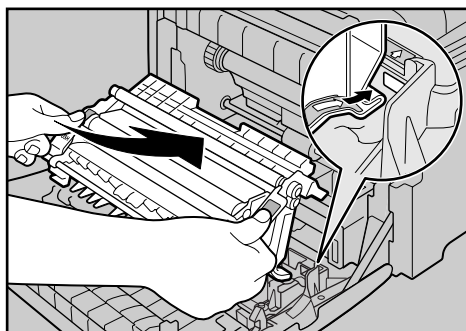
**8** Push in the waste toner bottle until it clicks into place.

Push the green part all the way in.



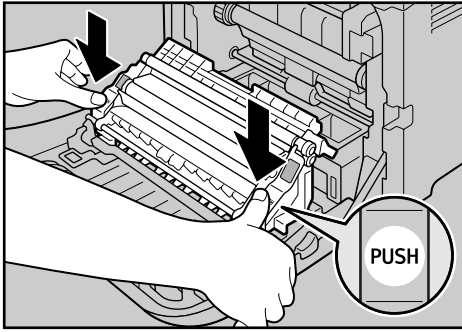
ASH015S

**9** Place the transfer unit down on the front cover.

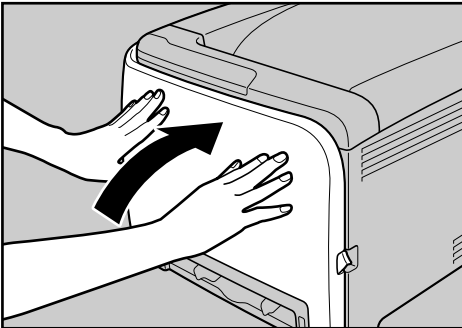


ASH020S

- 10 Slide the transfer unit along the guide rails into the printer. When it stops, push on the green PUSH mark until it clicks into place.



- 11 Close the front cover with both hands carefully.



 **Note**

- 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.



# 7. Cleaning the Printer

## Cautions to Take When Cleaning

**⚠ WARNING:**

- ***Do not attempt any maintenance or troubleshooting other than that mentioned in this manual. This machine contains a laser beam generator and direct exposure to laser beams can cause permanent eye damage.***

**⚠ CAUTION:**

- *The inside of this printer becomes very hot. Do not touch parts labelled “⚠” (indicating a hot surface).*

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 grime, use a neutral detergent, and then wipe over with a well-wrung wet cloth, dry wipe, and 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.
- Do not allow paper clips, staples, or other small metallic objects to fall inside the machine.



# Cleaning the Toner Density Sensor

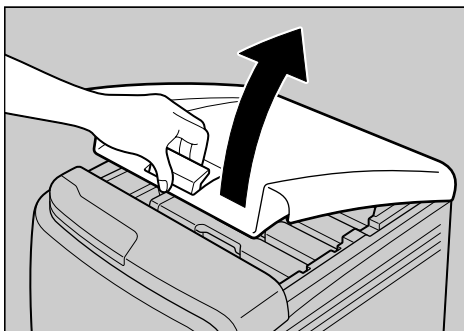
Clean the toner density sensor when the following message appears on the control panel.

“Toner Den.Sensor cleaning req.”

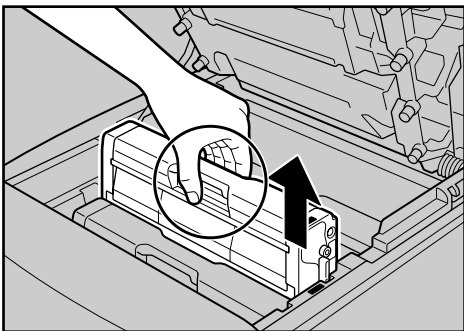
**⚠ CAUTION:**

- *Be careful not to trap your fingers when opening or closing the top cover.*

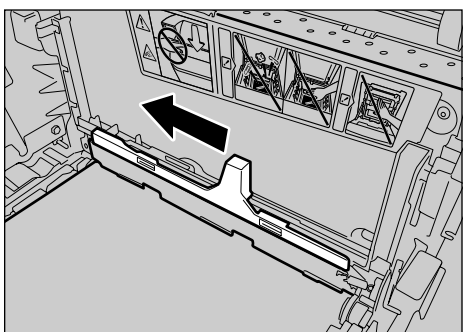
**1** Pull up Top Cover Open Lever to open the top cover.



**2** Lift out the cyan print cartridge.

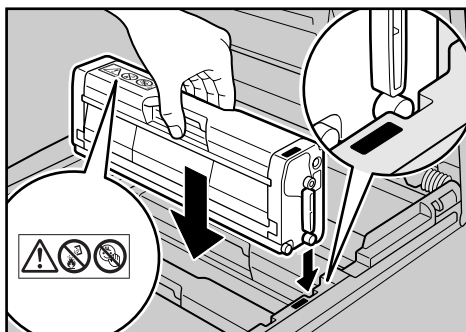


**3** Slide the toner density sensor lever once to the left.



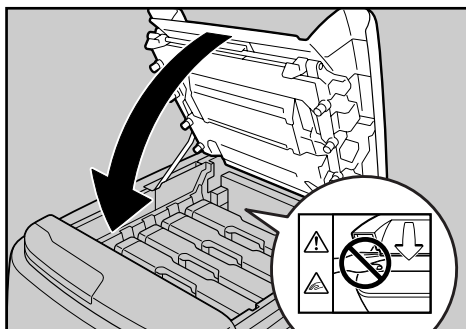
Slide the lever only once.

- 4** To reattach the cyan print cartridge removed in step 2. Push it all the way in carefully.



ASH009S

- 5** Close the top cover with both hands carefully. Be careful not to trap your fingers.



ASI102S

## Cleaning the Friction Pad and the Paper Feed Roller

If the friction pad or paper feed roller is dirty, a multi-feed or misfeed might occur. In this case, clean the friction pad and paper feed roller as follows:

### ⚠ **CAUTION:**

- *Unplug the power cord from the wall outlet before you move the machine. While moving the machine, you should take care that the power cord will not be damaged under the machine.*
- *Do not pull out the paper tray forcefully. If you do, the tray might fall and cause an injury.*
- *Do not put your hands inside the printer when the input tray is removed. Some internal parts become hot and are a burn hazard.*

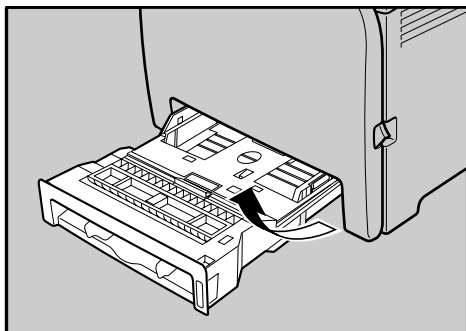
### ⚡ **Important**

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

**1** Turn off the power switch.

**2** Pull out the plug from the socket. Remove all the cables from the printer.

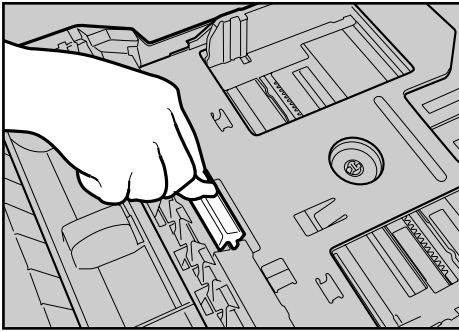
**3** Lift and pull Tray 1 carefully, and then pull it out with both hands.



ASH137S

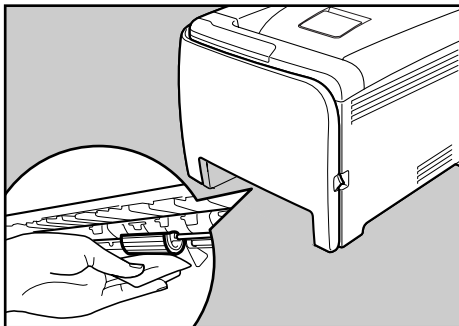
Place the tray on a flat surface. When there is paper in the tray, remove paper.

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



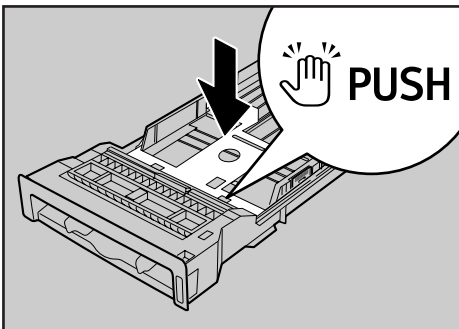
ASH149S

- 5** Wipe the rubber part of the roller with a soft damp cloth. After that, wipe it with a dry cloth to remove the water.



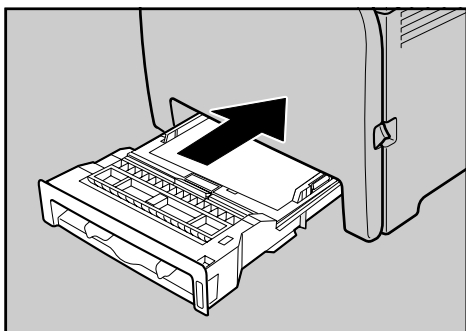
ASH065S

- 6** Push the metal plate down until it clicks into place to lock.



ASH138S

- 7** Slide Tray 1 along the rails, and push it carefully all the way into the printer.



ASH0375

- 8** Insert the plug of the power cord into the wall socket securely. Connect all the interface cables that were removed.
- 9** Turn the power switch on.

 **Note**

- If misfeeds or multi-feeds of paper occur after cleaning the friction pad, contact your sales or service representative.
- If the optional paper feed unit is installed, clean its friction pad in the same way as the main friction pad.
- Follow the same procedure to clean the paper feed roller of the optional paper feed unit.

# Cleaning the Registration Roller and the Paper Tray

The surrounding registration roller or paper tray might get dirty with paper dust when using paper other than standard paper.

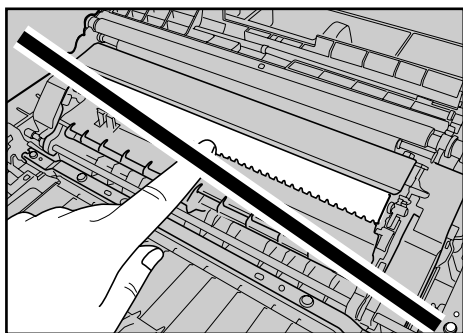
If white spots appear on the printout due to paper dust, wipe the paper tray and registration roller.

## **⚠ CAUTION:**

- *Unplug the power cord from the wall outlet before you move the machine. While moving the machine, you should take care that the power cord will not be damaged under the machine.*
- *The inside of this printer becomes very hot. Do not touch parts labelled “⚠” (indicating a hot surface).*
- *Do not pull out the paper tray forcefully. If you do, the tray might fall and cause an injury.*
- *Do not put your hands inside the printer when the input tray is removed. Some internal parts become hot and are a burn hazard.*

## **⚠ Important**

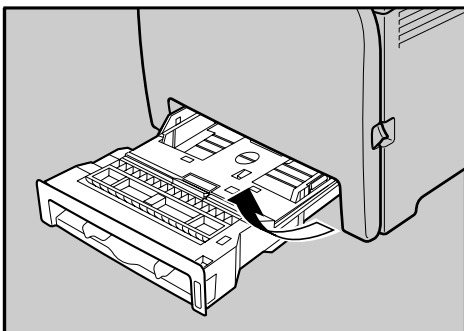
- Do not use chemical cleaner or organic solvent such as thinner or benzene.
- Do not touch the transfer roller.



**1** Turn off the power switch.

**2** Pull out the plug from the socket. Remove all the cables from the printer.

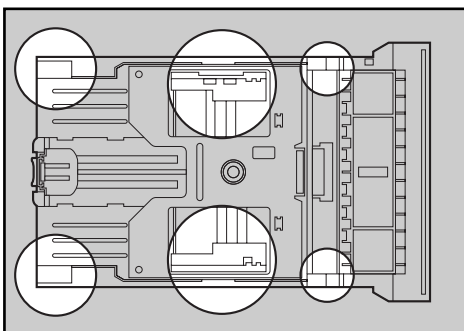
**3** Lift and pull Tray 1 carefully, and then pull it out with both hands.



ASH137S

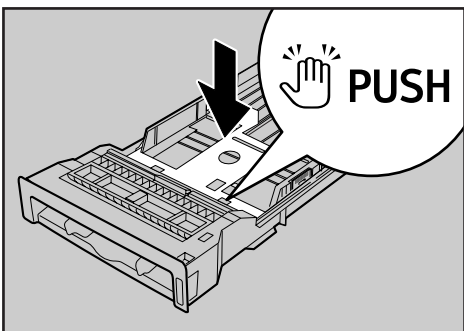
Place the tray on a flat surface. When there is paper in the tray, remove paper.

**4** Wipe the inside of the paper tray with a cloth.



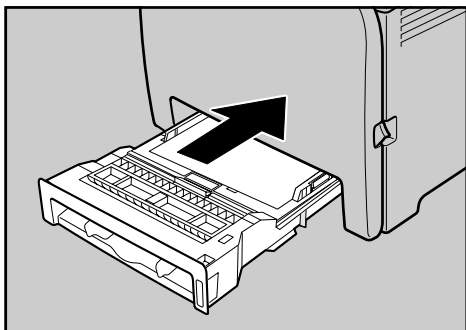
ASH150S

**5** Push the metal plate down until it clicks into place to lock.



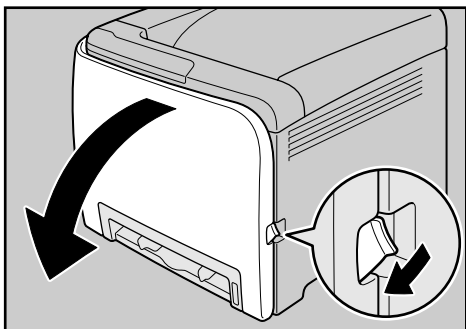
ASH138S

- 6** Slide Tray 1 along the rails, and push it carefully all the way into the printer.



ASH037S

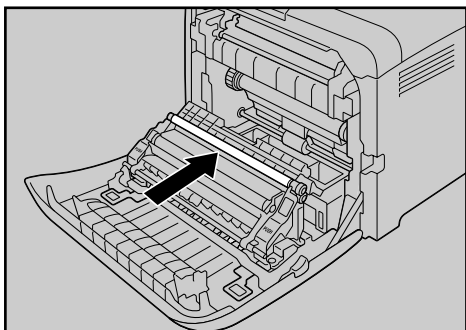
- 7** Pull Front Cover Open Lever, and then open the front cover with both hands carefully.



ASH011S

7

The registration roller is set in the position shown by the arrow.



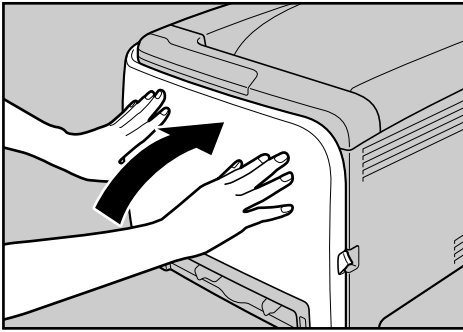
ASH066S

Clean the registration roller if printed paper becomes smeared after clearing a paper jam.

- 8** Using a cloth, wipe the metal registration roller.



- 9** Close the front cover with both hands carefully.



ASH067S

- 10** Insert the plug of the power cord into the wall socket securely. Connect all the interface cables that were removed.
- 11** Turn on the power switch.

# 8. Troubleshooting

## Error & Status Messages on the Control Panel

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

### ❖ Status messages

Message	Explanation	Recommended Action
Offline	The machine is Offline.	To start printing, switch the machine to online by pressing the <b>[Stop/Start]</b> key on the control panel.
Processing...	The machine is printing.	Wait a while.
Ready	This is the default ready message.	The machine is ready for use. No action is required.
Resetting Job...	The machine is resetting the print job.	Wait until "Ready" appears on the display.
Waiting...	The machine is waiting for the next data to print.	Wait a while.
Warming up...	The printer is warming up or toner is being supplied.	Wait until "Ready" appears on the display.

### ❖ Messages

Message	Explanation	Recommended Action
Cannot collate	The computer does not have a print control module, or the job does not use a print driver.	Change the port setting to print through a USB or LPR port.
Change Settings # Paper Size	The paper size setting in the tray # (1, 2, bypass) differs from that of actual paper size in the tray.	Load paper of the selected size in the tray, and then change the paper size setting with printer driver.
Change Settings # Paper Type	The paper type setting in the tray # (1, 2, bypass) differs from that of actual paper type in the tray.	Load paper of the selected size in the tray, and then change the paper size setting with the control panel.
Close Top/Front Cover	The top or front cover is open.	Open and then close the top or front cover.

Message	Explanation	Recommended Action
Controller FW download failed	Controller FW could not be downloaded.	Turn off the main power, turn it back on, and then download the controller FW again. If the download fails again, contact your sales or service representative.
Hardware Problem DIMM	There is an abnormality in the optional memory on the controller.	Turn off the main power, and then turn it on again. If the error occurs again, contact your sales or service representative.
Irregular Toner	Irregular toner is set.	Replace the toner to appropriate one.
Load Paper #	The indicated tray # (1, 2, bypass) is out of paper.	Load paper into the indicated paper tray. See p.47 "Loading Paper".
Load Paper: # or Stop/Start	The printer detected that the actual paper type and size are not the same as the paper tray # (1, 2, bypass) size setting and the paper type settings.	Load the indicated tray with the correct paper or change the paper type / size using dial or via the special paper size setting menu on the control panel.
Memory full Cannot print	This error occurs when FW memory is not enough to save the printing page.	Add more memory.
Misfeed recovery print failed	The print data could not be recovered due to insufficient memory.	Print again.
Print Overrun	The print data could not be processed.	Print the job again from a higher performance computer.
Paper Misfeed Duplex Unit	There is a paper jam in the duplex unit.	Remove the misfed paper. See p.109 "Removing Misfed Paper".
Remove Misfeed Internal Path	There is a paper jam in the fusing unit.	
Remove Misfeed Tray 1	There is a paper jam in Tray 1.	
Remove Misfeed Tray 2	There is a paper jam in Tray 2.	
Remove Misfeed Bypass Tray	There is a paper jam in the bypass tray.	
Remove Misfeed Paper Exit	There is a paper jam in the paper exit area.	

Message	Explanation	Recommended Action
Replace (color) Print Cartridge	The printer is out of toner.	Replace the print cartridge. See, p.71 "Replacing the Print Cartridge".
Replace (color) Print Cartridge soon	The printer is almost out of toner.	Prepare a new print cartridge.
Replace Waste Toner	It is time to replace the waste toner box.	Replace the waste toner box with a new one. See p.76 "Replacing the Waste Toner Bottle".
Reset (color) Print Cartridge	The indicated print cartridge is not set correctly, or not set.	Set the indicated print cartridge correctly.
	The error message appears even though the print cartridge is set correctly.	Using a dry cloth, carefully wipe the interface area on the print cartridge surface.
Reset Tray # correctly	The indicated paper input tray # (1 or 2) is not installed correctly, or not installed.	Install the indicated paper input tray correctly.
Reset Waste Toner correctly	There is no waste toner bottle, or the waste toner bottle is not installed correctly.	Set the waste toner bottle correctly.
SC XXX Power off on Call Service If error reoccurs	There is a problem with the printer's controller.	Turn off the main power, and then turn it on again. Call service people to repair it. If the error occurs again, contact your sales or service representative.
Toner Den.Sensor cleaning req.	Color registration failed.	Clean the toner density sensor. See p.84 "Cleaning the Toner Density Sensor".

## Panel Indicator

The following table explains the meaning of the various indicator patterns that the printer alerts to users about its conditions.

Indicator patterns	Cause
The <b>Alert</b> indicator is lit.	The printer cannot be used normally. Check the error on the control panel.
The <b>Ready</b> indicator is flashing.	The printer is receiving print data or preparing to print.
The <b>Ready</b> indicator is lit.	The printer is ready for use.

# Printer Does Not Print

Possible Cause	Solutions
Is the power on?	Confirm that the cable is securely plugged into the power outlet and the printer. Turn on the power.
Does the <b>Alert</b> indicator stay red?	If so, check the error message on the control panel and take the required action.
Is paper loaded?	Load paper into the paper tray or the bypass tray. See p.47 "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. For details about printing the configuration page using control panel, see p.16 "Test Printing".
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.125 "Specifications".
Is the <b>Ready</b> indicator blinking or lit after starting the print job?	If not blinking or lit, the data is not being sent to the printer. ❖ <b>If the printer is connected to the computer using the interface cable</b> Check the port connection setting is correct. For details about checking the port connection, see p.98 "When the Printer is Directly Connected to a Computer via USB Cable". ❖ <b>Network Connection</b> Contact your network administrator.

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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## When the Printer is Directly Connected to a Computer via USB Cable

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### Windows

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When the printer is directly connected via a USB cable to a computer but the **Ready** indicator does not flash or light up, use the following method to check the port connection:

- For a USB port connection, port USB00 (n) <sup>\*1</sup> should be set.
- <sup>\*1</sup> (n) is the number of printers connected.
- 

### Windows 2000

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

If the port (such as LPT1) is not correct, reinstall the driver.

#### **Reference**

For details about installation and port settings, see Software Guide.

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### Windows XP Professional, and Windows Server 2003/2003 R2

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

If the port (such as LPT1) is not correct, reinstall the driver.

#### **Reference**

For details about installation and port settings, see Software Guide.

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## Windows XP Home Edition

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

If the port (such as LPT1) is not correct, reinstall the driver.

### Reference

For details about installation and port settings, see Software Guide.

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## Windows Vista, and Windows Server 2008

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- 1** Click [Control Panel] on the [Start] menu, and then click [Printer] in the “Hardware and Sound”.
- 2** Click to select the icon of the printer. Next, on the [File] menu, click [Properties].
- 3** Click the [Port] tab.
- 4** Check the [Print to the following port(s).] box to confirm that the correct port is selected.

If the port (such as LPT1) is not correct, reinstall the driver.

### Reference

For details about installation and port settings, see Software Guide.



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## Mac OS X

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When the printer is connected to Mac OS X and the **Ready** indicator does not flash or light up, try the following procedures to check the port connection.

- Use **[About This Mac]** to check the USB information.
  - Use the printer browser to check if the printer is displayed.
- 

### Using **[About This Mac]**

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- 1** Click Apple Menu, and then select **[About This Mac]**.
  - 2** Click **[More Info]**.
  - 3** Under **[Contents]**, for **[Hardware]**, select **[USB]**.
- 

### Using the printer browser - Mac OS X 10.4.x or earlier

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- 1** On the desktop, double-click the hard drive icon.
- 2** Click **[Application]**, and then select the **[Utilities]** folder.
- 3** Double-click **[Printer Setup Utility]**.

The **[Printer List]** dialog box appears.

- 4** Click **[Add]**.

The printer browser starts.

Check that the printer appears in the browser. If it does not, reinstall the driver.

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### Using the printer browser - Mac OS X 10.5

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- 1** On the desktop, double-click the hard drive icon.
- 2** Click **[Applications]**, and then open the **[System Preferences]** folder.
- 3** In the **[Hardware]** category, double-click **[Print & Fax]**.
- 4** Click **[+]**, and then click **[Default]**.

- 5** Select the name of the printer you are using, and then click **[Add]**.

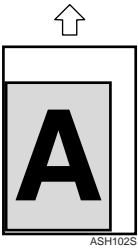
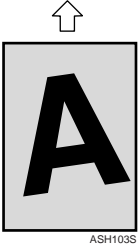
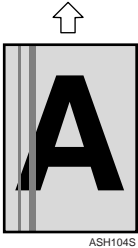
Check that the printer appears in the browser. If it does not, reinstall the driver.

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## Other Printing Problems

Status	Possible Causes, Descriptions, and Solutions
Toner smears appear on the print side of the page.	<ul style="list-style-type: none"> <li>• 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 printer driver's paper settings. See the printer driver Help.</li> <li>• Confirm that the paper is not curled or bent. Envelopes can be curled easily. Flatten paper before loading. See p.37 "Paper and Other Media".</li> </ul>
Paper jams occur frequently.	<ul style="list-style-type: none"> <li>• 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.47 "Loading Paper".</li> <li>• There may be a gap between the front end paper guide and the paper, or between the paper guide both side and the paper in the paper tray. Make sure there are no gaps. See p.47 "Loading Paper".</li> <li>• Paper is either too thick or too thin. See p.37 "Paper and Other Media".</li> <li>• Paper is bent or wrinkled. Use paper that have no bents or wrinkles. See p.37 "Paper and Other Media".</li> <li>• Paper has already been printed on. See p.37 "Paper and Other Media".</li> <li>• Paper is damp. Use paper that has been stored properly. See p.37 "Paper and Other Media".</li> <li>• The friction pad or paper feed roller or registration roller may be dirty. Clean the pertinent section as necessary. See p.86 "Cleaning the Friction Pad and the Paper Feed Roller" and p.89 "Cleaning the Registration Roller and the Paper Tray"</li> <li>• 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 printer driver's paper settings. See the printer driver Help.</li> </ul>
Prints fall behind the machine when they are output.	<ul style="list-style-type: none"> <li>• Raise the appropriate stop fence (forward fence for A4, rear fence for legal size prints). See, p.1 "Exterior: Front View".</li> </ul>


Status	Possible Causes, Descriptions, and Solutions
Prints do not stack properly.	<ul style="list-style-type: none"> <li>• Paper is damp. Use paper that has been stored properly. See p.37 “Paper and Other Media”.</li> <li>• Pull out the extender.</li> <li>• Perform the following operation.               <ol style="list-style-type: none"> <li>① Press the <b>[Menu]</b> key on the control panel, select <b>[System]</b>, and then press the <b>[#Enter]</b> key.</li> <li>② Press the <b>[▼]</b> or <b>[▲]</b> key and select <b>[Anti-Humidity]</b>, and then press the <b>[#Enter]</b> key.</li> <li>③ Press the <b>[▼]</b> or <b>[▲]</b> key and select <b>[Mode 2]</b> or <b>[Mode 3]</b>, and then press the <b>[#Enter]</b> key.</li> </ol> <p>Note that the first print takes longer than subsequent prints to complete. See the printer driver help.</p> </li> <li>• Raise the appropriate stop fence (forward fence for A4, rear fence for legal size prints). See, p.1 “Exterior: Front View”.</li> </ul>
Multiple pages are fed at once.	<ul style="list-style-type: none"> <li>• There may be a gap between the front end paper guide and paper, or between the paper guide both side and paper in the paper tray. Make sure there are no gaps. See p.47 “Loading Paper”.</li> <li>• Paper is either too thick or too thin. See p.37 “Paper and Other Media”.</li> <li>• Paper has already been printed on. See p.37 “Paper and Other Media”.</li> <li>• 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.37 “Paper and Other Media”.</li> <li>• Paper is static. Use paper that has been stored properly. See p.37 “Paper and Other Media”.</li> <li>• The friction pad or paper feed roller or registration roller may be dirty. Clean the pertinent section as necessary. See p.86 “Cleaning the Friction Pad and the Paper Feed Roller”</li> <li>• Check that paper has not been added while there is still some left in the tray. Only add paper when there is none left in the tray.</li> <li>• Fan the paper before loading.</li> </ul>
Paper gets wrinkles.	<ul style="list-style-type: none"> <li>• Paper is damp. Use paper that has been stored properly. See p.37 “Paper and Other Media”.</li> <li>• Paper is too thin. See p.37 “Paper and Other Media”.</li> <li>• There may be a gap between the front end paper guide and the paper, or between the paper guide both side and the paper in the paper tray. Make sure there are no gaps. See p.47 “Loading Paper”.</li> </ul>

Status	Possible Causes, Descriptions, and Solutions
<p>Images are not printed in the right position</p> 	<ul style="list-style-type: none"> <li>Adjust the printing position. You can adjust the printing position of tray 2 using the control panel. See Software Guide.</li> <li>Adjust the front end paper guide and both side paper guides to match the paper size. See p.47 "Loading Paper"</li> </ul>
<p>Images are printed diagonally to the pages</p> 	<p>Adjust the front end paper guide and both side paper guides to match the paper size. See p.47 "Loading Paper".</p>
<p>White lines appear.</p> 	<p>The intermediate transfer belt is dirty. Follow the procedure below to clean the belt:</p> <ol style="list-style-type: none"> <li>Open the top cover while the power is on.</li> <li>Remove all print cartridges from the printer.</li> <li>Close the top cover with both hands carefully.</li> <li>When cleaning finishes, open the top cover and reinsert all the print cartridges.</li> </ol> <p>If this procedure does not resolve the problem, contact your sales or service representative.</p>
<p>Horizontal lines appear on the printed paper.</p>	<ul style="list-style-type: none"> <li>Impact can cause lines to appear on printed paper and other malfunctions. Protect the printer from impact at all times, especially while it is printing.</li> <li>If lines appear on prints, turn the printer off, wait a few moments, and then turn it back on again. Then, perform the print job again.</li> </ul>
<p>White spots appear.</p>	<ul style="list-style-type: none"> <li>The surrounding registration roller or paper tray can become dirty with paper dust if you use other than standard paper. Wipe any paper dust off both the paper tray and registration roller. See p.89 "Cleaning the Registration Roller and the Paper Tray".</li> </ul>

Status	Possible Causes, Descriptions, and Solutions
<p>After replacing a color print cartridge, colorless dots appear in solid color printouts.</p>	<p>Change the paper type currently selected in the Paper Type settings, and then print.                      Eg. "Plain &amp; Recycled" ⇒ "Recycled", "Recycled" ⇒ "Plain 1".                      See p.61 "Specifying a paper type for tray 1 and the optional paper feed unit" or p.65 "Specifying custom size paper for the bypass tray".</p>
<p>Speckling occurs in areas of solid black print.</p>	<p>Select <b>[CMY + K]</b> for <b>[Gray Reproduction (Text/Line Art):]</b> in the printer driver's dialog box.                      See the printer driver Help.</p>
<p>Paper is not fed from the selected tray.</p>	<ul style="list-style-type: none"> <li>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.</li> </ul>
<p>A printed image is different from the image on the computer's display.</p>	<ul style="list-style-type: none"> <li>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.</li> </ul>
<p>It takes too much time to resume printing.</p>	<ul style="list-style-type: none"> <li>The data is so large or complex that it takes time to process it. If the <b>Ready</b> indicator is blinking, the data is being processed. Just wait until it resumes.</li> <li>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 Energy Saver mode:                             <ol style="list-style-type: none"> <li>Press the <b>[Menu]</b> key on the control panel, select <b>[System]</b>, and then press the <b>[#Enter]</b> key.</li> <li>Press the <b>[▼]</b> or <b>[▲]</b> key, and then select <b>[Energy Saver 2]</b>.</li> <li>Press the <b>[▼]</b> or <b>[▲]</b> key, and then select <b>[Off]</b>.</li> </ol> </li> </ul>
<p>It takes too much time to complete the print job.</p>	<ul style="list-style-type: none"> <li>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.</li> <li>The data is so large or complex that takes time to process. If the <b>Ready</b> indicator is blinking, the data is being processed. Just wait until it resumes.</li> <li>If the <b>Ready</b> indicator on the control panel is flashing, the printer is warming up. Wait for a while.</li> <li>The printer is adjusting the color registration. Wait for a while.</li> </ul>
<p>Images are cut off, or excess pages are printed.</p>	<p>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.</p>

Status	Possible Causes, Descriptions, and Solutions
The color of the printout is different from the color on the computer's display.	<ul style="list-style-type: none"> <li>• The colors made using color toner are different from colors displayed on the display in its production system.</li> <li>• Color gradation might appear differently if <b>[On]</b> is selected for <b>[Toner Saving]</b> on the <b>[Print Quality]</b> tab in the printer driver's dialog box. See the printer driver Help.</li> <li>• Turn off the main power, and then turn it back on. If the color still appears differently on the printout, perform the following operation.               <ol style="list-style-type: none"> <li>① Press the <b>[Menu]</b> key on the control panel, select <b>[Maintenance]</b>, and then press the <b>[#Enter]</b> key.</li> <li>② Press the <b>[▼]</b> or <b>[▲]</b> key, select <b>[Color Dens/Reg]</b>, and then press the <b>[#Enter]</b> key.</li> <li>③ Press the <b>[#Enter]</b> key.</li> </ol> </li> </ul> <p>If this procedure fails to resolve the problem, contact your sales or service representative.</p>
The color of the printout is different from the color specified.	If a specific color is missing, turn the power switch off and on. If this does not solve the problem, contact your sales or service representative.
Color changes extremely when adjusted with the printer driver.	Do not extreme settings for the color balance under the <b>[Print Quality]</b> tab in the printer driver's dialog box. See the printer driver Help.
Photo images are coarse.	Some applications lower the resolution for making prints.
Color documents are printed in black and white.	<ul style="list-style-type: none"> <li>• The printer driver is not set up for color printing. See the printer driver Help.</li> <li>• Some applications print color files in black and white.</li> </ul>
Fine dot pattern does not print.	Change the <b>[Dithering:]</b> 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 <b>[K (Black)]</b> for <b>[Gray Reproduction (Text/Line Art):]</b> in the printer driver's dialog box. See the printer driver Help.
Black gradation is not natural.	Select <b>[CMY + K]</b> for <b>[Gray Reproduction (Text/Line Art):]</b> in the printer driver's dialog box. See the printer driver Help.
Solid lines are printed as broken lines.	Change the <b>[Dithering:]</b> setting in the printer driver's dialog box. See the printer driver Help.

Status	Possible Causes, Descriptions, and Solutions
A color is missing or partially blurred.	<ul style="list-style-type: none"> <li>• Paper is damp. Use paper that has been stored properly. See p.37 "Paper and Other Media".</li> <li>• Toner is nearing empty. If the following message appears on the control panel, replace the print cartridge: "Replace (Color) Print Cartridge" See p.71 "Replacing the Print Cartridge".</li> <li>• Condensation may have collected. If rapid change in temperature or humidity occurs, use this printer only after it has acclimatized.</li> </ul>
Color shift occurs.	<ol style="list-style-type: none"> <li>① Press the <b>[Menu]</b> key on the control panel, select <b>[Maintenance]</b>, and then press the <b>[#Enter]</b> key.</li> <li>② Press the <b>[▼]</b> or <b>[▲]</b> key, select <b>[Color Dens/Reg]</b>, and then press the <b>[#Enter]</b> key.</li> <li>③ Press the <b>[#Enter]</b> key.</li> </ol>
The whole printout is blurred.	<ul style="list-style-type: none"> <li>• Paper is damp. Use paper that has been stored properly. See p.37 "Paper and Other Media".</li> <li>• Perform the following operation.               <ol style="list-style-type: none"> <li>① Press the <b>[Menu]</b> key on the control panel, select <b>[System]</b>, and then press the <b>[#Enter]</b> key.</li> <li>② Press the <b>[▼]</b> or <b>[▲]</b> key and select <b>[Anti-Humidity]</b>, and then press the <b>[#Enter]</b> key.</li> <li>③ Press the <b>[▼]</b> or <b>[▲]</b> key and select <b>[Mode 2]</b> or <b>[Mode 3]</b>, and then press the <b>[#Enter]</b> key.</li> </ol> </li> <li>• If you select <b>[Toner Saving]</b> on the <b>[Print Quality]</b> tab in the printer properties dialog box, printing is generally less dense. See the printer driver Help.</li> <li>• If the <b>Alert</b> indicator on the control panel lights up and the following message appears on the display, replace the print cartridge: "Replace (Color) Print Cartridge" See p.71 "Replacing the Print Cartridge".</li> <li>• Condensation may have collected. If rapid change in temperature or humidity occurs, use this printer only after it has acclimatized.</li> </ul>
White streaks or color streaks appear.	<ul style="list-style-type: none"> <li>• Toner is almost depleted. If an error message appears on the control panel, replace the print cartridge of the color indicated. See p.71 "Replacing the Print Cartridge".</li> </ul>
The backs of printed sheets are blemished.	<ul style="list-style-type: none"> <li>• When removing a jammed sheet, the inside of the printer may have become dirtied. Print several sheets until they come out clean.</li> <li>• 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.</li> </ul>

Status	Possible Causes, Descriptions, and Solutions
If rubbed with your finger, it smears out.	<p>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.</p> <ul style="list-style-type: none"> <li>• Check the paper settings of this printer. See p.39 "Types of Paper and Other Media".</li> <li>• Check the paper settings of the printer driver. See the printer driver Help.</li> </ul>
The toner has run out and printing has stopped.	<p>When the toner runs out, pressing the <b>[Stop/Start]</b> key allows you to print a few more pages, but the print quality of those pages cannot be guaranteed.</p>
The toner is powdery and comes away from the paper, or the printed image has a matt appearance.	<p>Check if the fusing unit lever is lowered or the grey knobs are positioned as in the image below.</p>  <p>ASH129S</p>

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



## Additional Troubleshooting

Problems	Solutions
Strange noise is heard.	If a supply was recently replaced or an option attached in the area the strange noise is coming from, check the supply or option is properly attached. If the strange noise persists, contact your sales or service representative.
No e-mail is received when an Alert occurs, and after resolving an Alert.	<ul style="list-style-type: none"> <li>• Confirm the setting using either the control panel or Web Image Monitor. Control panel Press the <b>[Menu]</b> key, select <b>[System]</b>, and then press the <b>[#Enter]</b> key. Press the <b>[▼]</b> or <b>[▲]</b> key to display <b>[Auto Email Ntfy]</b>, and then confirm that <b>[On]</b> is selected. Web Image Monitor Confirm that <b>[Auto E-mail Notification]</b> is set to <b>[On]</b>.</li> <li>• When the power is turned off before the e-mail is transmitted, the e-mail will not be received.</li> <li>• Check the e-mail address set for the destination. If the e-mail was sent but not received, it is possible the destination was incorrect. Also check error mail information from the e-mail server.</li> </ul>
No e-mail notification is received even though advance auto e-mail notification was set using Web Image Monitor or the control panel.	After changing the setting, turn the main unit's power off and then back on again.
When no date information is included in sent e-mail, the mail server has a malfunction.	Make the setting for obtaining time information from the SMTP server. For details, see "Printer Status Notification by E-Mail", Software Guide.

8

 **Note**

- If the printer is still not operating satisfactorily, contact your sales or service representative. Consult with the store where the printer was purchased for information about the location of sales or service representatives.

# 9. Removing Misfed Paper

## When Paper is Jammed

If a paper jam occurs, the **Alert** indicator on the control panel flashes and one of the following messages appears on the control panel:

“Remove Misfeed Internal Path”

“Remove Misfeed Tray 1”


“Remove Misfeed Tray 2”

“Paper Misfeed Duplex Unit”

“Remove Misfeed Paper Exit”

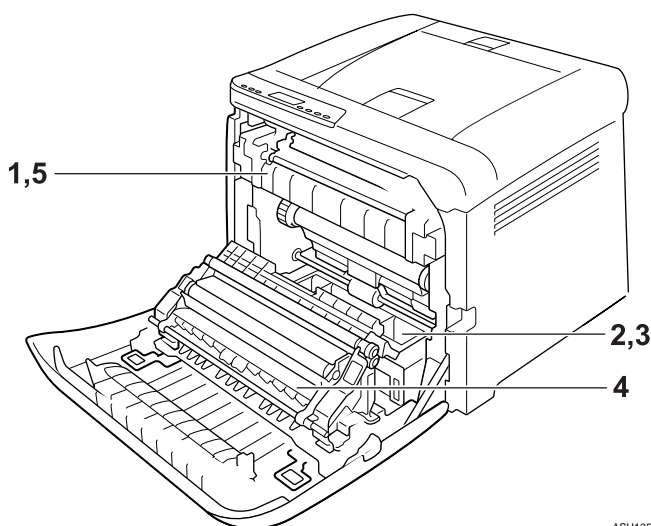
Check the location and remove the jammed paper.

### **CAUTION:**

- *The inside of this printer becomes very hot. Do not touch the parts labelled “

### **Important***

- Misfed paper may be covered in toner. Be careful not to get toner on your hands or clothes.
- Toner on prints made after removing misfed paper may be loose (inadequately fused). Make a few test prints until smudges no longer appear.
- Do not forcefully remove misfed paper, it will tear. Torn pieces remaining inside the printer will cause further misfeeds and possibly damage the printer.
- Paper jams can cause pages to be lost. Check your print job for missing pages and reprint any pages that did not print out.



ASH135S

### **1. Remove Misfeed Internal Path**

There is a paper jam in the fusing unit.  
See p.111 “When “Remove Misfeed Internal Path” Appears”.

### **2. Remove Misfeed Tray 1**

There is a paper jam in Tray 1.  
See p.113 “When “Remove Misfeed Tray 1” Appears”.

### **3. Remove Misfeed Tray 2**

There is a paper jam in Tray 2.  
See p.114 “When “Remove Misfeed Tray 2” Appears”.

### **4. Paper Misfeed Duplex Unit**

There is a paper jam in the duplex unit.  
See p.115 “When “Paper Misfeed Duplex Unit” Appears”.

### **5. Remove Misfeed Paper Exit**

There is a paper jam in the fusing unit.  
See p.116 “When “Remove Misfeed Paper Exit” Appears”.

## When “Remove Misfeed Internal Path” Appears

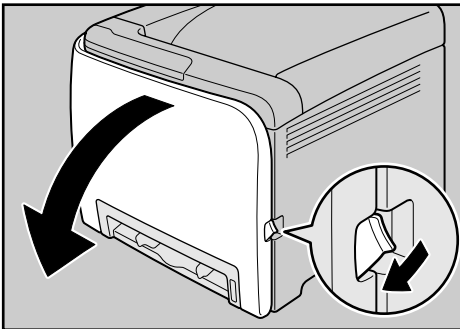
“Remove Misfeed Internal Path” appears when a paper jam has occurred in the fusing unit.

Open the front cover and remove the paper.

### **Important**

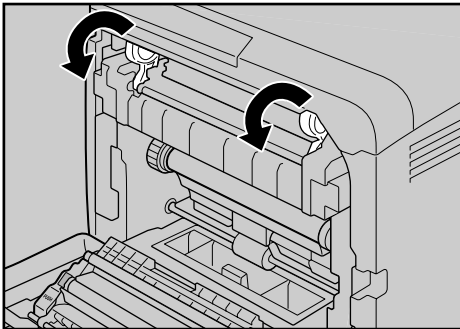
□ Since the surrounding temperature is high around the guide, check for jammed paper when it gets a little cooler.

**1** Pull Front Cover Open Lever, and then open the front cover with both hands carefully.

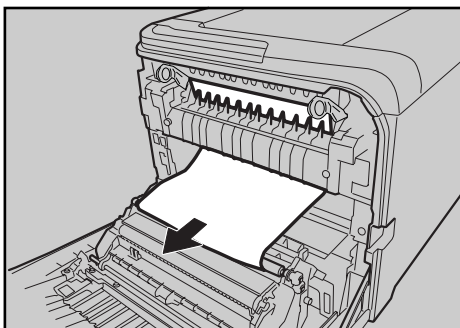


ASH011S

**2** Lower the blue fusing unit levers, and pull out the jammed paper carefully.



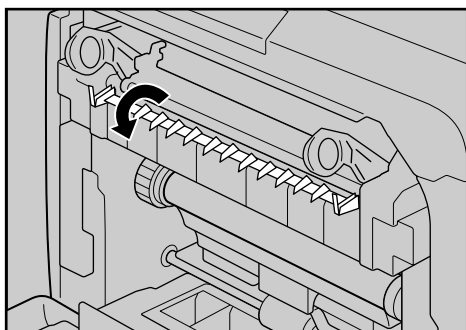
ASH046S



ASH047S

Pull the paper downward to remove it. Do not pull it upward.

If it is difficult to locate the paper, check for jammed paper by pulling down the guide.



ASH048S

**3** Close the front cover with both hands carefully.



ASH067S

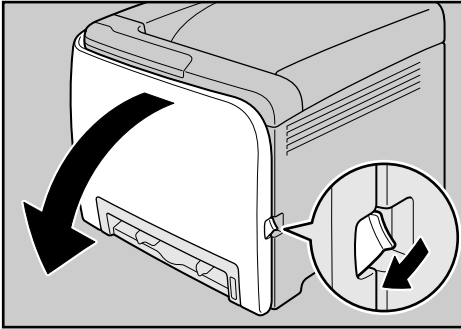
 **Note**

- When closing the front cover, push the upper side of the cover firmly. After closing the cover, check that the error is cleared.

## When “Remove Misfeed Tray 1” Appears

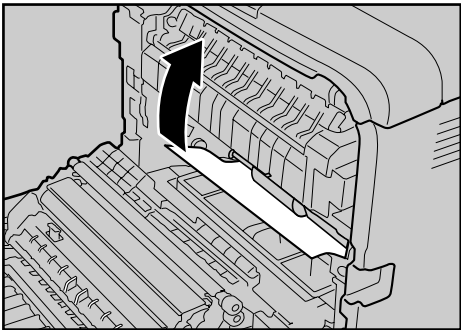
“Remove Misfeed Tray 1” appears when a paper jam has occurred in Tray 1. Open the front cover and remove the paper.

- 1** Pull Front Cover Open Lever, and then open the front cover with both hands carefully.



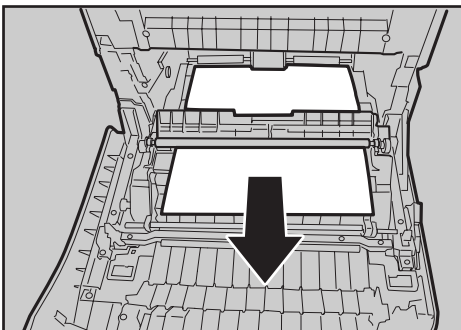
ASH011S

- 2** Carefully pull the jammed paper upward and out.



ASH068S

If paper has jammed inside the transfer unit, holding both sides of the paper, pull the paper carefully forward and out.



ASH069S

**3** Close the front cover with both hands carefully.



ASH067S

 **Note**

- Do not pull out the paper tray (Tray 1).
- If paper is jammed in Tray 2, but it is difficult to locate, pull out Tray 2 to remove it. After removing the paper, carefully push Tray 2 all the way back inside the printer.
- When closing the front cover, push the upper side of the cover firmly. After closing the cover, check that the error is cleared.

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## When “Remove Misfeed Tray 2” Appears

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“Remove Misfeed Tray 2” appears when a paper jam has occurred in Tray 2. Open the front cover and remove the paper following the same procedure as for Tray 1.

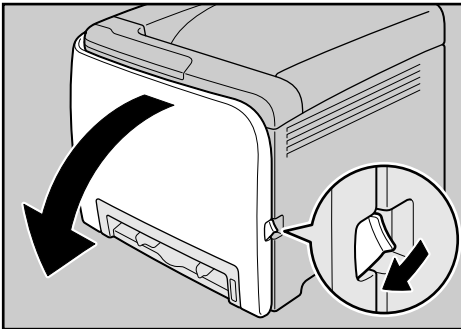
 **Reference**

For details about the procedure, see p.113 “When “Remove Misfeed Tray 1” Appears”

## When “Paper Misfeed Duplex Unit” Appears

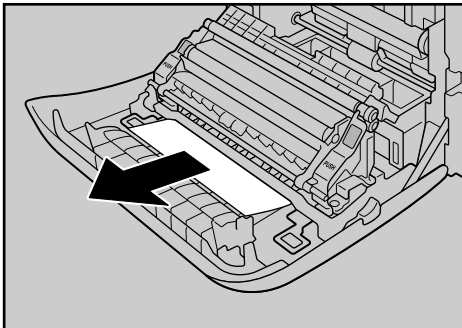
“Paper Misfeed Duplex Unit” appears when a paper jam has occurred in the duplex unit. Open the front cover and remove the paper.

- 1** Pull Front Cover Open Lever, and then open the front cover with both hands carefully.



ASH011S

- 2** Carefully remove misfed paper under the transfer unit.



ASH050S

If you cannot find the misfed paper, look inside the printer.

- 3** Close the front cover with both hands carefully.



ASH067S

### Note

- When closing the front cover, push the upper side of the cover firmly. After closing the cover, check that the error is cleared.



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## When “Remove Misfeed Paper Exit” Appears

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“Remove Misfeed Paper Exit” appears when a paper jam has occurred in the fusing unit.

Open the front cover and remove the paper following the same procedure as for internal path.

### **Reference**

For details about the procedure, see p.111 “When “Remove Misfeed Internal Path” Appears”

## If the Printer is Not Going to Be Used for a Long Time

If the printer is going to be inactive for a long time, follow the procedure shown here.

**⚠ WARNING:**

- ***Plug and unplug the power cable with dry hands, or an electric shock could occur.***

**⚠ CAUTION:**

- *The inside of this printer becomes very hot. Do not touch parts labelled “⚠” (indicating a hot surface).*
- *Unplug the power cord from the wall outlet before you move the machine. While moving the machine, you should take care that the power cord will not be damaged under the machine.*

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## Preparing the Printer For a Long Period of Inactivity

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Use this procedure to prepare the printer for a long period of inactivity with its power switch turned to off.

Note that not using the following procedure could result in unusual noises when use of this printer is resumed.

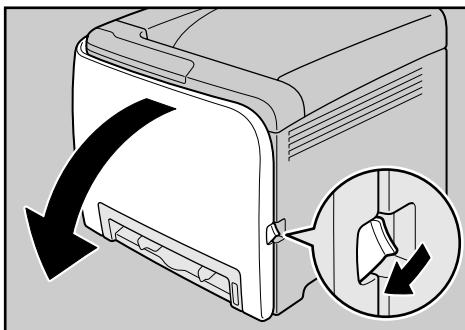
**⚠ Important**

- Do not switch off the printer during printing.

**1** Turn off the power switch.

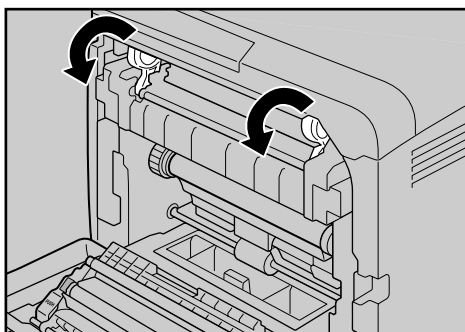
**2** Pull out the plug from the socket.

- 3** Pull Front Cover Open Lever, and then open the front cover with both hands carefully.



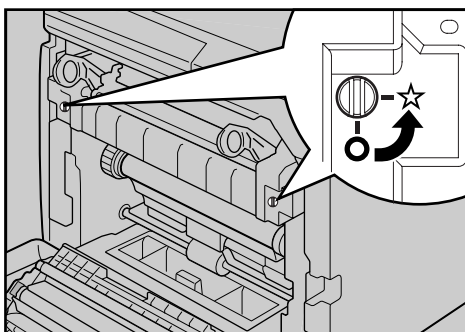
ASH011S

- 4** Lower the blue fusing unit lever.



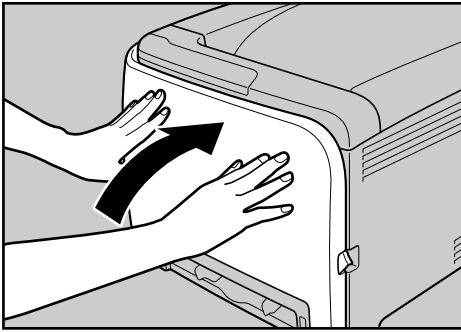
ASH046S

- 5** Using a coin, turn both gray knobs on the fusing unit 90 degrees counter-clockwise (until the slots are horizontally aligned with the ☆ marking shown in the illustration below).



ASH127S

**6** Close the front cover with both hands carefully.



ASH067S

 **Note**

- This step is not necessary if the printer's power switch is on but the printer has been inactive for a long time.

---

## Using the Printer Again after it has been Inactive for a Long Period

---

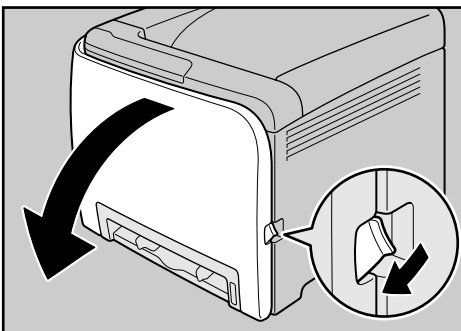
Use the following procedure to start using the printer again after it has been inactive for a long period.

 **Important**

- To avoid damage to the fusing unit's knobs, be sure to turn both knobs back to their original positions, as shown in the following procedure.

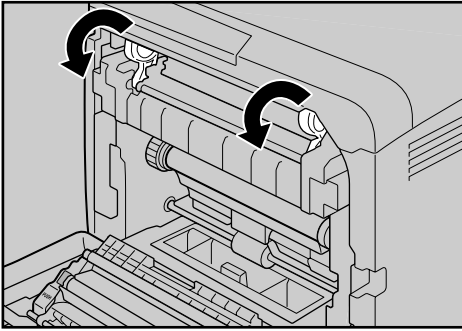
**1** Plug in the power cable.

**2** Pull Front Cover Open Lever, and then open the front cover with both hands carefully.



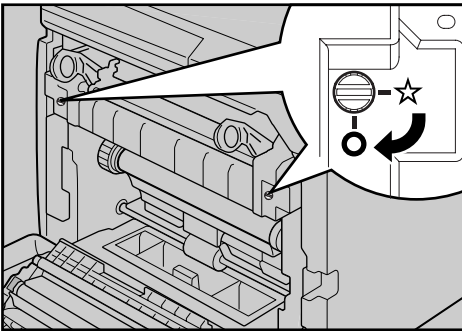
ASH011S

**3** Lower the blue fusing unit lever.



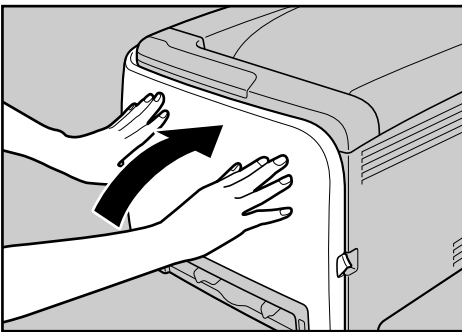
ASH046S

**4** Using a coin, turn both gray knobs on the fusing unit 90 degrees clockwise (until the slots are vertically aligned with the ○ marking shown in the illustration below).



ASH126S

**5** Close the front cover with both hands carefully.



ASH067S

**6** Turn the power switch to On.

# Moving and Transporting the Printer

## **CAUTION:**

- *The printer weighs approximately 23 kg (50.6 lb.). When moving the printer, use the inset grips on both sides, and lift slowly in pairs. The printer will break or cause injury if dropped.*
- *Unplug the power cord from the wall outlet before you move the machine. While moving the machine, you should take care that the power cord will not be damaged under the machine.*
- *When you disconnect the power plug from the wall outlet, always pull the plug (not the cable).*
- *When moving the printer after use, do not take out any of the toners, nor the waste toner bottle to prevent toner spill inside the machine.*

Repack the printer in its original packing materials for transporting.

## **Important**

- Be sure to disconnect all cables from the printer before transporting it.
- The printer is a precision piece of machinery. Be sure to handle it carefully when moving it.
- If the optional paper feed unit is installed, remove it from the printer, and then move them separately.
- Do not grip on the tray area when lifting the printer.

## **Note**

- The printer weighs approximately 23 kg (50.6 lb.).

---

## Moving the Printer

---

### ⚠ CAUTION:

- *Unplug the power cord from the wall outlet before you move the machine. While moving the machine, you should take care that the power cord will not be damaged under the machine.*

---

### Moving the printer in a short distance

---

#### **1** Be sure to check the following points:

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

#### **2** If the external option is installed, remove it.

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



ASH051S

#### **4** If you remove the option, reinstall it.

##### Note

- Be sure to move the printer horizontally. To prevent toner from scattering, move the printer slowly.
- If the optional paper feed unit is installed, remove it from the printer, and then move them separately.

# Consumables

## ⚠ **CAUTION:**

- *Our products are engineered to meet high standards of quality and functionality, and we recommend that you use only the expendable supplies available at an authorized dealer.*

## Print Cartridge

Print cartridge	Average number of pages printable per cartridge <sup>*1</sup>
Black	2,500 pages
Black (High yield)	6,500 pages
Cyan	2,500 pages
Cyan (High yield)	6,000 pages
Magenta	2,500 pages
Magenta (High yield)	6,000 pages
Yellow	2,500 pages
Yellow (High yield)	6,000 pages

<sup>\*1</sup> The printable number of pages is based on pages that are compliant with ISO/IEC 19798 and the image density set as the factory default. ISO/IEC 19798 is an international standard on measurement of printable pages, set by the International Organization for Standardization.

The number of printable pages varies depending on which of the two different types of print cartridge you have installed.

### **Note**

- If print cartridges are not changed when necessary, printing will become impossible. We recommend keeping a stock of bottles or purchasing them soon.
- The actual number of printable pages varies depending on the image volume and density, number of pages to be printed at a time, paper type and paper size used, and environmental conditions such as temperature and humidity.
- Print cartridges may need to be changed sooner than indicated above due to deterioration over the period of use.
- Print cartridges (consumables) are not covered by warranty. However, if there is a problem, contact the store where they were purchased.
- When you first use this printer, use the four print cartridges packaged with the printer.
- The supplied print cartridge is good for approximately 1,000 pages.
- This printer routinely performs cleaning and uses toner during operation to maintain quality.
- To prevent a cleaning malfunction, you may need to replace a print cartridge even if it is not empty.
- If the toner has run out but you urgently need to continue printing, see p.101 "Other Printing Problems".



---

## Waste Toner Bottle

---

Name	Average printable number of pages <sup>*1</sup>
Waste Toner Bottle SP C220	25,000 pages

<sup>\*1</sup> A4/letter 5% test chart, 3 pages / job, printing in 50% monochrome/color.

 **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 waste toner bottles are not changed when necessary, printing will become impossible. We recommend keeping a stock of bottles or purchasing them soon.

# Specifications

## **WARNING:**

- ***The supplied power cord is for use with this equipment only. Do not use with other appliances. Doing so may result in fire, electric shock, or injury.***

---

## Main Unit

---



### ❖ Configuration



Desktop

### ❖ Print Process

Laser beam scanning & Electrophotographic printing  
4 drums tandem method

### ❖ First Print Speed



Monochrome: 14 sec or less (A4  / 8 1/2 × 11 )



Color: 14 sec or less (A4  / 8 1/2 × 11 )

### Note

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

### ❖ Printing Speed

Monochrome: maximum 20 pages per minute (A4 ) , 21 pages per minutes (8 1/2 × 11 )

Color: maximum 20 pages per minute (A4 ) , 21 pages per minutes (8 1/2 × 11 )

Printing speed may vary depending on the setting up environment.

### ❖ Resolution

600 × 600 dpi Speed

1200 × 600 dpi Standard

2400 × 600 dpi Fine

### ❖ Paper size

See p.37 “Paper and Other Media”

### ❖ Paper Weight

See p.37 “Paper and Other Media”

### ❖ Media Type

See p.37 “Paper and Other Media”

### ❖ Paper Output Capacity

Standard 150 sheets (80 g/m<sup>2</sup>, 20 lb.)

❖ **Paper Input Capacity**

Standard Paper Tray	250 sheets*1
Bypass Tray	1*1
Optional Paper Feed Units	500 sheets*1

\*1 Paper weight: 80 g/m<sup>2</sup> (20 lb. bond)

❖ **Power Source**

- **220-240V**  
220-240 V, 6A or more, 50/60 Hz
- **120V**  
120 V, 11 A or more, 60 Hz

❖ **Power Consumption**

Printing	1300 W or less (No power is used during power off.)
Energy Saver	15 W or less

❖ **Warm-up Time**

Less than 48 seconds (23 °C, 71.6 F) \*1

\*1 When no error is occurred.

❖ **Dimensions**

	Width	Depth	Height
Printer only (tray not extended)	400 mm (15.8 inches)	450 mm (17.8 inches)	320 mm (12.8 inches)

❖ **Weight**

Approximately 23 kg (50.6 lb.) (print cartridges included)

❖ **Noise Emission \*1****Sound Power Level**

During Monochrome Printing (Main Unit Only)	64 dB (A) or less
During Color Printing (Main Unit Only)	64 dB (A) or less
Standby (Main Unit Only)	40 dB (A) or less
During Printing (Complete System)	68 dB (A) or less

**Sound Pressure Level \*2**

During Monochrome Printing (Main Unit Only)	58 dB (A) or less
During Color Printing (Main Unit Only)	58 dB (A) or less
Standby (Main Unit Only)	34 dB (A) or less
During Printing (Complete System)	62 dB (A) or less

\*1 : The preceding measurements made in accordance with ISO7779 are actual values.

\*2 : Measured at the position of a bystander.

❖ **Memory**

Standard 128 MB, up to 384 MB (with the optional memory unit)

❖ **Interface**

- Ethernet (10/100 Base-TX)
- USB2.0  
It requires a USB computer port and cable that support USB 2.0.
- USB Host (1.1)

 **Note**

- USB Host (1.1) is only available for the SP C232DN model printer.

❖ **Printer Language**

PJL, PCL 5c/6, PostScript Level 3, PictBridge

 **Note**

- PictBridge is only available for the SP C232DN model printer.

❖ **Fonts**

PCL

41 Symbolset, 35 Intellifonts, 10 TrueType fonts, 1 bitmap font.

PostScript 3

80 fonts

---



## Options

---

---

### Paper Feed Unit TK1010

---

- ❖ **Paper size**  
A4  and Letter (8<sup>1</sup>/<sub>2</sub> × 11 inches) 
- ❖ **Dimensions (W × D × H)**  
400 × 450 × 127 mm (15.8 × 17.8 × 5 inches)
- ❖ **Paper weight**  
60 - 105 g/m<sup>2</sup>, (16 - 28 lb.)
- ❖ **Weight**  
Less than 4 kg (8.8 lb.)

---

### Memory Unit Type F 256MB

---

- ❖ **Module Type**  
DDR-DIMM (Double Data Rate Dual Inline Memory Module)
- ❖ **Memory Type**  
DDR-SDRAM (Double Data Rate Synchronous Dynamic RAM)
- ❖ **Number of Pins**  
100

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The meanings of the symbols for the switches on this machine are as follows:

**I** :POWER ON.

**O**:POWER OFF.

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**The product names of Windows Server 2008 are as follows:**

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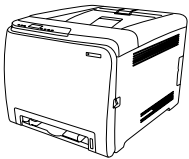
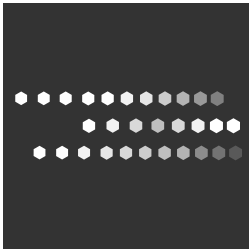
Microsoft® Windows Server® 2008 Enterprise

### Note

- PostScript 3 in this manual stands for "Adobe PostScript 3 Emulation".



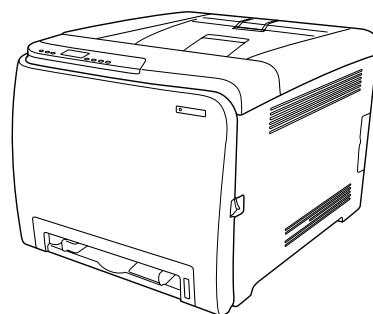
**SP C231N/C232DN Operating Instructions Hardware Guide**





# SP C231N/C232DN

## Operating Instructions Software Guide



- 
- 1** Preparing for Printing
  - 2** Setting Up the Printer Driver
  - 3** Other Print Operations
  - 4** Direct Printing from a Digital Camera (PictBridge)
  - 5** Making Printer Settings Using the Control Panel
  - 6** Monitoring and Configuring the Printer
  - 7** Using a Print Server
  - 8** Special Operations under Windows
  - 9** Mac OS Configuration
  - 10** Appendix

---

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

## Introduction

This manual contains detailed instructions and notes on the operation and use of this machine. For your safety and benefit, read this manual carefully before using the machine. Keep this manual in a handy place for quick reference.

## Important

Contents of this manual are subject to change without prior notice. In no event will the company be liable for direct, indirect, special, incidental, or consequential damages as a result of handling or operating the machine.

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Use of controls or adjustments or performance of procedures other than those specified in this manual might result in hazardous radiation exposure.

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  - Microsoft® Windows Vista® Enterprise
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  - Microsoft® Windows Vista® Home Premium
  - Microsoft® Windows Vista® Home Basic
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  - Microsoft® Windows Server® 2003 Standard Edition
  - Microsoft® Windows Server® 2003 Enterprise Edition
  - Microsoft® Windows Server® 2003 Web Edition

- The product names of Windows Server 2003 R2 are as follows:  
Microsoft® Windows Server® 2003 R2 Standard Edition  
Microsoft® Windows Server® 2003 R2 Enterprise Edition
- The product names of Windows Server 2008 are as follows:  
Microsoft® Windows Server® 2008 Standard  
Microsoft® Windows Server® 2008 Enterprise

 **Note**

- PostScript 3 in this manual stands for "Adobe PostScript 3 Emulation".

**Notes:**

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

Certain options might not be available in some countries. For details, please contact your local dealer.

Depending on which country you are in, certain units may be optional. For details, please contact your local dealer.



# Description for the Specified Model

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

## 220-240V

This explains about the 220–240 V model printer. You can identify the model by checking the label on the rear of the printer.

Read if you purchase this model.

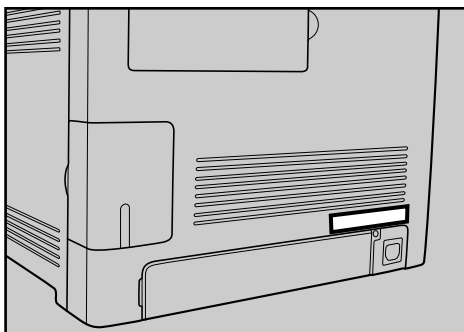
## 120V

This explains about the 120 V model printer. You can identify the model by checking the label on the rear of the printer.

Read if you purchase this model.

### Note

- You can identify the printer's model by checking the label on the rear of the printer as shown.



ASH074S

# How to Read This Manual

---

## Symbols

---

This manual uses the following symbols:

### **WARNING:**

Indicates important safety notes.

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

### **CAUTION:**

Indicates important safety notes.

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

### **Important**

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

### **Note**

Indicates supplementary explanations of the printer’s functions, and instructions on resolving user errors.

### **Reference**

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

[ ]

Indicates the names of keys that appear on the printer’s display panel.

[ ! ]

Indicates the names of keys on the printer’s control panel.

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# 1. Preparing for Printing

## Confirming the Connection Method

This printer supports network and USB connection.

Before installing the printer driver, check how the printer is connected. Follow the driver installation procedure that is appropriate to the connection method.

The printer drivers can be installed from the CD-ROM provided with this printer.

---

### Network Connection

---

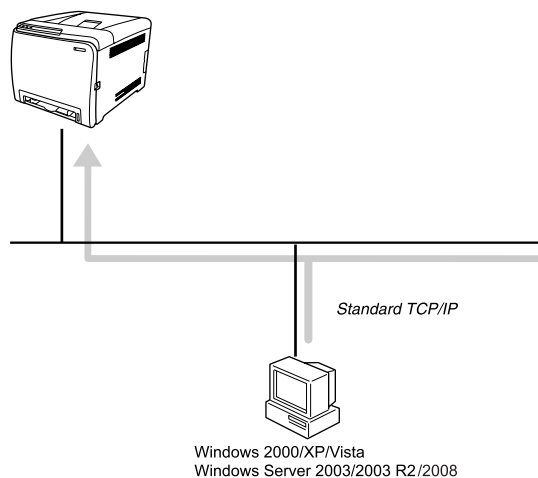
This printer can be used as a Windows printing port or network printer.

---

#### Using this printer as the Windows printing port

---

Network connections can be established via Ethernet.



❖ **Operating system**

Windows 2000/XP/Vista, and Windows Server 2003/2003 R2/2008

❖ **Connection method**

Ethernet (10baseT/100baseTX)

❖ **Available ports**

Standard TCP/IP

🔍 **Reference**

For details about how to use this printer as the Windows printing port, see p.3 “Installing the Printer Driver in a Network Environment”.

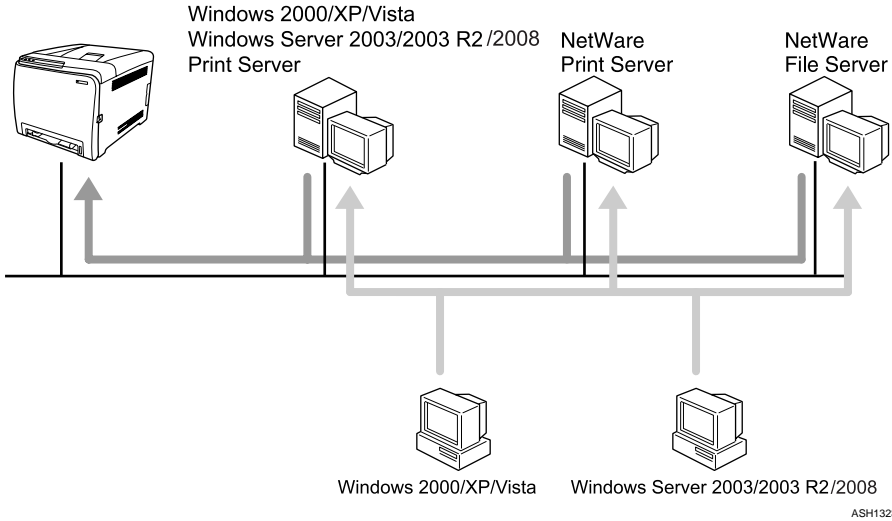
---

## Using as a network printer

---

This printer can be used as the Windows network printer, the NetWare print server, or the NetWare remote printer.

1



### Reference

For details about how to use this printer as a Windows network printer, see p.7 “Installing the Printer Driver to Use As a Windows Network Printer”.

---

## USB Connection

---

This printer can be connected directly to a computer using a USB cable.

### Reference

For details about how to install the printer driver, see p.8 “Installing the Printer Driver Using USB”.

# Installing the Printer Driver in a Network Environment

This section explains how to install the printer driver that allows you to use this printer in a network environment.

1

---

## Installing the PCL Printer Driver

---

### Important

- To install this printer driver, you must have an account that has Manage Printers permission. Log on as an Administrator or Power Users group member.

Use the following procedure to install the PCL printer driver.

- 1** Close all applications except this manual.
- 2** Insert the CD-ROM into the CD-ROM drive.  
The installer starts.
- 3** Select an interface language, and then click [OK].  
The default interface language is English.
- 4** Click [PCL 6 Printer Driver] or [PCL 5c Printer Driver].  
The software license agreement appears.
- 5** After reading the agreement, click [I accept the agreement.], and then click [Next >].
- 6** In the dialog box that appears, click [Add a new printer], select the [Search for network printers.] check box, and then click [Next >].  
If the search fails, the printer driver is installed via port LPT1.  
Check the port settings and printer's IP address again, before reconfiguring the settings.
- 7** When the list of found printers appears, click this printer (whose IP address you specified before the installation), and then click [Next >].
- 8** Double-click the printer name to display the printer's settings, change the settings as required, and then click [Continue].
- 9** If a message appears informing you that the installation was successfully completed, click [Finish].

 **Note**

- When you click **[Finish]**, the **[Digital Signature Not Found]** dialog box might appear. To continue the installation, click **[Yes]**.
- Auto Run might not work under certain operating system settings. If this is the case, launch "Setup.exe" from the CD-ROM root directory.
- To stop the selected software installing, click **[Cancel]** before the installation is complete.
- A message appears if there is a newer version of the printer driver already installed. If there is, you cannot install the printer driver using Auto Run. If you still want to install the printer driver, use **[Add Printer]**. See p.14 "If a Message Appears during Installation".

 **Reference**

For details about reconfiguring the printer settings, when the search for network printer fails, see p.4 "If the network printer search fails".

For details about the network connection, see Hardware Guide.

---

## If the network printer search fails

---

This section explains how to reconfigure the settings if the network printer search fails during the installation.

Use the control panel to check the printer's IP address settings, and then reconfigure these settings if necessary.

### ❖ Reconfigure the printer's IP address

Use the control panel to obtain the printer's current IP address settings by checking the **[IP Address]**, **[Subnet Mask]**, and **[Gateway Address]** settings. You can change these settings if necessary. For details, see p.58 "Changing the Host Interface Menu".

### ❖ Reconfigure the port settings

- ① On the **[Start]** menu, open the **[Printers]** window.
- ② Click the icon of this printer. On the **[File]** menu, click **[Properties]**.  
The printer properties appears.
- ③ Click the **[Ports]** tab, and then click **[Add Port]**.
- ④ Click **[Standard TCP/IP Port]**, and then click **[New Port...]**.  
The Add Standard TCP/IP Printer Port Wizard appears.
- ⑤ Click **[Next >]**.
- ⑥ Enter the printer's IP address that is printed on the test page, and then click **[Next >]**.
- ⑦ Click **[Finish]**.



---

## Installing the PostScript 3 Printer Driver

---

### Important

- Before installing the PostScript 3 printer driver, obtain the printer's IP address settings. For details, see p.58 “Changing the Host Interface Menu”.
- To install this printer driver, you must have an account that has Manage Printers permission. Log on as an Administrators or Power Users group member.

**1** Close all applications except this manual.

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

The installer starts.

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

The default interface language is English.

**4** Click [PostScript 3 Printer Driver].

The Add Printer Wizard starts.

**5** Click [Next >].

**6** Click [Local printer], and then click [Next >].

In a Windows Vista environment, click [Add a local printer].

**7** Click [Create a new port].

**8** In the drop-down menu, select [Standard TCP/IP Port], and then click [Next >].

The [Add Standard TCP/IP Printer Port Wizard] dialog box appears.

**9** Click [Next >].

**10** Enter the printer's IP address in the [Port Name] box, and then click [Next >].

The IP address you enter here is the address you have checked on the configuration page.

In a Windows Vista environment, make the following settings in the dialog box that appears, and then click [Next >].

- ① In [Device Type] list, select an item.  
You can select [Autodetect], [TCP/IP Device], or [Web Services Device].
- ② Enter an IP address in the [Hostname or IP address:] box.
- ③ If necessary, enter an port name in the [Port name] box.

**11** Click [Finish].

**12** Check that the name of this printer whose driver you want to install is selected, and then click [Next >].

**13** Change the printer name if you want, and then click **[Next >]**.

Select the **[Yes]** check box to configure the printer as default.

**14** Specify whether or not to share this printer, and then click **[Next >]**.

**15** Specify whether or not to print a test page, and then click **[Next >]**.

**16** Click **[Finish]**.

The printer driver installation starts.

 **Note**

- When you click **[Finish]**, the **[Digital Signature Not Found]** dialog box may appear. To continue the installation, click **[Yes]**.
- Auto Run might not work under certain operating system settings. If this is the case, launch "Setup.exe" from the CD-ROM root directory.
- The printer driver in the selected language will be installed.
- To stop the selected software installation, click **[Cancel!]** before the installation is complete.

 **Reference**

For details about checking the printer's IP address, see p.48 "Printing the Configuration Page".

For details about reconfiguring the printer settings when the network printer search fails, see p.4 "If the network printer search fails".

---

## Installing the Printer Driver to Use As a Windows Network Printer

---

This section explains how to install the printer driver for using this printer as a Windows network printer.

### Important

- ❑ Before you can make the following settings, you must configure this printer as a Windows network printer. For details about configuring a Windows network printer, see p.89 "Using a Print Server".

The following example procedure explains installing the printer driver under Windows XP.

For details, see Windows Help.

- 1** On the [Start] menu, click [Control Panel].
- 2** Click [Printers and Other Hardware], and then click your computer's [Printers and Faxes] folder.
- 3** Click [Add a printer].  
The Add Printer Wizard appears.
- 4** Select [A network printer, or printer attached to another computer], and then click [Next >].
- 5** Select [Connect to this printer], and then click [Next >].
- 6** Select this printer from the list of the shared printers, and then click [Next >].
- 7** Select whether or not to use this printer as the default printer, and then click [Next >].
- 8** Click [Finish].

# Installing the Printer Driver Using USB

This section explains how to install the printer driver that allows you to use this printer via USB.

1

---

## Installing the PCL Printer Driver

---

### Important

- To install this printer driver, you must have an account that has Manage Printers permission. For this, log on as an Administrator or Power Users group member.

**1** Close all applications except this manual.

**2** Check the following:

- The printer's USB cable is disconnected
- The printer's main power switch is turned to off

**3** Insert the CD-ROM into the CD-ROM drive.

The installer starts.

**4** Select the interface language, and then click [OK].

**5** Click [PCL 6 Printer Driver] or [PCL 5c Printer Driver].

The software license agreement appears.

**6** After reading the agreement, click [I accept the agreement.], and then click [Next >].

**7** In the [Method to install printer driver] dialog box, clear the [Search for network printers.] check box, select the [Connect a printer using a USB cable.] check box, and then click [Next >].

A message appears, asking you to check that the USB cable is not connected and the printer's main power switch is turned to off.

**8** Check the USB cable and the printer status, and then click [Next >].

**9** When the [<Auto-detect USB Port>] dialog box appears, connect this printer to the computer using a USB cable, and then turn the printer's main power switch to on.

The auto-detecting starts.

To cancel the auto-detecting, click [Stop Auto-detecting].

**10** When the dialog box asking you to use this printer as the default printer appears, click either key.

**11** When a message appears informing you that the installation was successfully completed, click **[Finish]**.

 **Note**

- In a Windows Vista environment, depending on security settings, the **[User Account Control]** dialog box might appear after you insert the CD-ROM. If this is the case, click **[Allow]**.
- If the printer driver is already installed, plug and play is enabled and the printer connected to the USB port appears automatically in the **[Printers]** window.
- When USB is first used, plug and play starts. Then the **[New Hardware Found]**, **[Device Driver Wizard]**, or **[Add New Hardware Wizard]** dialog box appears, depending on the operating system.
- To disable Auto Run, press the left **[Shift]** key when inserting the CD-ROM into the drive and keep it pressed until the computer finishes reading from the CD-ROM.
- The number after "USB" varies depending on the number of printers connected.
- A message appears if the printer connection fails. Check the USB cable is connected and the printer's main power switch is turned to on, and then click **[Retry]**.
- The USB port is available only for the printer driver that is installed first. To install additional drivers for this printer, install them using other ports (such as LPT1). Then, after the installation, change the port settings to the specified USB port.

---

## Installing the PostScript 3 Printer Driver (Windows 2000)

---

### Important

- To install this printer driver, you must have an account that has Manage Printers permission. Log on as an administrator or Power Users group member.

If the printer driver has already been installed, plug and play is enabled, and the icon of the printer connected to the “USB” port is added to the **[Printers]** window.

If the printer driver is not installed, follow the plug-and-play instructions of the printer to install it from the CD-ROM provided.

**1** Check the printer's power switch is turned to off.

**2** Connect the printer and computer using the USB cable.

Connect the USB cable firmly.

**3** Turn the printer's power switch back to on.

The Plug and Play is enabled and the **[Found New Hardware Wizard]** dialog box appears, and USB Printing Support is installed automatically.

**4** In the **[Found New Hardware Wizard]** dialog box, click **[Search for a suitable driver for my device (recommended)]**, and then click **[Next >]**.

**5** Select the **[Specify location]** check box, and then click **[Next >]**.

**6** Insert the CD-ROM into the CD-ROM drive.

When Auto Run starts, click **[Exit]**.

**7** Specify the location where the source files of the printer driver is stored.

If the CD-ROM drive is D, the source files of the PostScript printer driver are stored in the following location:

D:\DRIVERS\PS\XP\_VISTA\*(Language)*\DISK1

**8** Check the printer driver location, and then click **[OK]**.

**9** Click **[Next >]**.

**10** Click **[Finish]**.

If the printer driver has already been installed, plug and play is enabled, and the icon of the printer connected to the “USB001” port is added to the **[Printers]** window.

### Note

- To disable Auto Run, press the **[Shift]** key when inserting the CD-ROM into the drive and keep it pressed until the computer finishes reading from the CD-ROM.
- The number after “USB” varies depending on the number of printers connected.
- The USB port is available only for the printer driver that is installed first. To install additional drivers for this printer, install them using other ports (such as LPT1). Then, after the installation, change the port settings to the specified USB port.

---

## Installing the PostScript 3 Printer Driver (Windows XP and Windows Server 2003/2003 R2)

---

### Important

- To install this printer driver, you must have an account that has Manage Printers permission. Log on as an administrator or Power Users group member.

If the printer driver has already been installed, plug and play is enabled, and the icon of the printer connected to the “USB” port is added to the **[Printers]** window.

If the printer driver is not installed, follow the plug-and-play instructions of the printer to install it from the CD-ROM provided.

**1** Check the printer's power switch is turned to off.

**2** Connect the printer and computer using the USB cable.

Connect the USB cable firmly.

**3** Turn the printer's power switch back to on.

The Plug and Play is enabled and the **[Found New Hardware Wizard]** dialog box appears, and USB Printing Support is installed automatically.

**4** In the **[Found New Hardware Wizard]** dialog box, click **[Install from a list or specific location (Advanced)]**, and then click **[Next >]**.

**5** Select the **[Specify location]** check box, and then click **[Next >]**.

**6** Insert the CD-ROM into the CD-ROM drive.

When Auto Run starts, click **[Exit]**.

**7** Specify the location where the source files of the printer driver is stored.

If the CD-ROM drive is D, the source files of the PostScript printer driver are stored in the following location:

D:\DRIVERS\PS\XP\_VISTA\ (Language)\DISK1

**8** Check the printer driver location, and then click **[OK]**.

**9** Click **[Next >]**.

**10** Click **[Finish]**.

If the printer driver has already been installed, plug and play is enabled, and the icon of the printer connected to the “USB001” port is added to the **[Printers]** window.

### Note

- To disable Auto Run, press the **[Shift]** key when inserting the CD-ROM into the drive and keep it pressed until the computer finishes reading from the CD-ROM.
- The number after “USB” varies depending on the number of printers connected.
- The USB port is available only for the printer driver that is installed first. To install additional drivers for this printer, install them using other ports (such as LPT1). Then, after the installation, change the port settings to the specified USB port.

---

## Installing the PostScript 3 Printer Driver (Windows Vista and Windows Server 2008)

---

1

### Important

- To install this printer driver, you must have an account that has Manage Printers permission. Log on as an administrator or Power Users group member.

If the printer driver is already installed and plug and play is enabled, the icon of the printer connected to the “usb” port appears in the **[Printers]** window.

The printer drivers can be installed from the CD-ROM provided with this machine.

If the printer driver is not already installed, follow the printer's plug-and-play instructions to install it from the provided CD-ROM.

### **1** Connect the printer and computer using the USB cable.

Connect the USB cable firmly.

The **[Found New Hardware]** dialog box appears.

### **2** Click **[Locate and install driver software (Recommended)]**.

If the **[User Account Control]** dialog box appears, click **[Continue]**.

### **3** Click **[Don't search online]**.

A message prompting you to insert the provided CD-ROM appears.

### **4** Insert the provided CD-ROM into the computer's CD-ROM drive.

The printer driver search begins, and a list of printer drivers appears.

### **5** Select the printer driver you want to use, and then click **[Next]**.

If the **[Windows can't verify the publisher of this driver software]** message appears, click **[Install this driver software anyway]**.

### **6** Click **[Close]**.

If the installation is successful, the icon of the printer connected to the “USB001” port appears in the **[Printers]** window.

### Note

- To disable Auto Run, press the **[Shift]** key when inserting the CD-ROM into the drive and keep it pressed until the computer finishes reading from the CD-ROM.
- The number after “USB” varies depending on the number of printers connected.
- The USB port is available only for the printer driver that is installed first. To install additional drivers for this printer, install them using other ports (such as LPT1). Then, after the installation, change the port settings to the specified USB port.



---

## Troubleshooting USB

---

Problem	Solutions
The printer is not recognized automatically.	Turn off the power of the printer, reconnect the USB cable, and then turn it on again.
Windows has already configured the USB settings.	Open Windows' Device Manager, and then, under <b>[Universal Serial Bus controllers]</b> or <b>[USB Controller]</b> , remove any conflicting devices. Conflicting devices have a <b>[!]</b> or <b>[?]</b> icon by them. Take care not to accidentally remove required devices. For details, see Windows Help.

# If a Message Appears during Installation

1

When a message that shows the number 58 or 34 appears during the installation, the printer driver can not be installed using Auto Run. Please use **[Add Printer]** or **[Install Printer]** to install the printer driver.

---

For Windows 2000:

---

- 1** On the **[Start]** menu, point to **[Settings]**, and then click **[Printers]**.
  - 2** Double-click the Add Printer icon.
  - 3** Follow the instructions in the Add Printer Wizard.
- 

For Windows XP Professional and Windows Server 2003/2003 R2:

---

- 1** On the **[Start]** menu, click **[Printers and Faxes]**.
  - 2** Click **[Install Printer]**.
  - 3** Follow the instructions in the Add Printer Wizard.
- 

For Windows XP Home Editions:

---

- 1** On the **[Start]** menu, click **[Control Panel]**.
  - 2** Click **[Printers and Other Hardware]**.
  - 3** Click **[Printers and Faxes]**.
  - 4** Click **[Install Printer]**.
  - 5** Follow the instructions in the Add Printer Wizard.
- 

For Windows Vista and Windows Server 2008:

---

- 1** On the **[Start]** menu, click **[Control Panel]**.
- 2** Click **[Printer]** in "Hardware and Sound".
- 3** Click **[Add a printer]**.
- 4** Follow the instructions in the Add Printer Wizard.

# Making Option Settings for the Printer

Make option settings for the printer using the printer driver when bidirectional communication is disabled.

1

---

## Conditions for Bidirectional Communication

---

Bidirectional communication allows information about paper settings to be automatically sent from the printer. You can check printer status from your computer.

### Important

- Make sure that **[Enable bidirectional support]** is selected on the **[Ports]** tab in the printer properties dialog box.

To support bidirectional communication, the following conditions must be met:

### ❖ **Operating system**

Windows 2000/XP/Vista, and Windows Server 2003/2003 R2/2008

### ❖ **When connected via a network**

The printer must be connected via standard TCP/IP port, and the default name has not been changed.

### ❖ **When connected via USB**

The printer must be connected to the computer's USB port using the USB interface cable.

### Note

- The PostScript 3 printer driver does not support bidirectional communications. You can update printer status manually.
- The PCL printer drivers support bidirectional communications. You can update printer status manually.

---

## If Bidirectional Communication Is Disabled

---

Set up option settings when bidirectional communication is disabled.

1

### Important

- Manage Printers permission is required to change the printer properties in the **[Printers]** folder. Log on as an Administrators or Power Users group member.

#### **1** On the **[Start]** menu, point to **[Settings]**, and then click **[Printers]**.

When using Windows XP or Windows Server 2003/2003 R2, click **[Printers and Faxes]** on the **[Start]** menu.

When using Windows Vista or Windows Server 2008, click **[Control Panel]** on the **[Start]** menu, and then click **[Printer]**.

#### **2** Click the icon of the printer you want to use.

#### **3** On the **[File]** menu, click **[Properties]**.

#### **4** Click the **[Accessories]** tab.

If you are using the PostScript 3 printer driver, click the **[Device Settings]** tab.

#### **5** Select options installed from the **[Options]** area, and then make the necessary settings.

#### **6** Select the total amount of the memory in **[Total Memory:]**, when the optional SDRAM module is added.

#### **7** Under **[Paper Size Settings]**, click and highlight the tray to be used, select the appropriate size , and then click **[Update]**.

#### **8** Click **[OK]** to close the printer properties dialog box.

# 2. Setting Up the Printer Driver

## PCL - Accessing the Printer Properties

This section explains about accessing the printer properties and make the printer settings.

---

### Windows 2000 - Making Printer Settings

---

---

#### Making the printer default settings - the [Printers] window

---

#### Important

- To change the printer default settings including option configuration settings, log on using an account that has Manage Printers permission. Members of the Administrators and Power Users groups have Manage Printers permission by default.
- You cannot change the printer default settings for each user. Settings made in the printer properties dialog box are applied to all users.

#### **1** On the [Start] menu, point to [Settings], and then click [Printers].

The [Printers] window appears.

#### **2** Click the icon of the printer you want to use.

#### **3** On the [File] menu, click [Properties].

The printer properties dialog box appears.

#### **4** Make the necessary settings, and then click [OK].

#### Note

- Settings you make here are used as the default settings for all applications.
- Do not make a setting for [Form to Tray Assignment].

#### Reference

For details about settings, see the printer driver Help.

---

## Making the printer default settings - Printing Preferences

---

### Important

- You cannot change the printer default settings for each user. Settings made in the printer properties dialog box are applied to all users.

**1** On the [Start] menu, point to [Settings], and then click [Printers].

The [Printers] window appears.

**2** Click the icon of the printer you want to use.

**3** On the [File] menu, click [Printing Preferences...].

The [Printing Preferences] dialog box appears.

**4** Make the necessary settings, and then click [OK].

### Note

- Settings you make here are used as the default settings for all applications.

### Reference

For details about settings, see the printer driver Help.

---

## Making printer settings from an application

---

You can make printer settings for a specific application.

To make printer settings for a specific application, open the [Printing Preferences] dialog box from that application. The following explains how to make settings for the WordPad application provided with Windows 2000.

**1** On the [File] menu, click [Print...].

The [Print] dialog box appears.

**2** Select the printer you want to use in the [Select Printer] list, and then click [Preferences].

**3** Make the necessary settings, and then click [Apply] to start printing.

### Note

- The procedure to open the [Printing Preferences] dialog box may vary depending on the application. For details, see the manuals provided with the application you use.
- Any settings you make in the procedure above are valid for the current application only.
- General users can change the properties displayed in the [Print] dialog box of an application. Settings made here are used as defaults when printing from this application.

### Reference

For details about settings, see the printer driver Help.

---

## Windows XP and Windows Server 2003/2003 R2 - Making Printer Settings

---

---

### Making the printer default settings - the [Printers and Faxes] window

---

#### Important

- To change the printer default settings including option configuration settings, log on using an account that has Manage Printers permission. Members of the Administrators and Power Users groups have Manage Printers permission by default.
- You cannot change the printer default settings for each user. Settings made in the printer properties dialog box are applied to all users.

#### **1** On the [Start] menu, click [Printers and Faxes].

The [Printers and Faxes] window appears.

#### **2** Click the icon of the printer you want to use.

#### **3** On the [File] menu, click [Properties].

The printer properties dialog box appears.

#### **4** Make the necessary settings, and then click [OK].

#### Note

- Settings you make here are used as the default settings for all applications.
- Do not make a setting for [Form to Tray Assignment].

#### Reference

For details about settings, see the printer driver Help.

---

## Making the printer default settings - Printing Preferences

---

### Important

- You cannot change the printer default settings for each user. Settings made in the printer properties dialog box are applied to all users.

#### **1** On the [Start] menu, click [Printers and Faxes].

The [Printers and Faxes] window appears.

#### **2** Click the icon of the printer you want to use.

#### **3** On the [File] menu, click [Printing Preferences...].

The [Printing Preferences] dialog box appears.

#### **4** Make the necessary settings, and then click [OK].

##### Note

- Settings you make here are used as the default settings for all applications.

##### Reference

For details about settings, see the printer driver Help.

---

## Making printer settings from an application

---

You can make printer settings for a specific application.

To make printer settings for a specific application, open the [Printing Preferences] dialog box from that application. The following explains how to make settings for the WordPad application provided with Windows XP.

#### **1** On the [File] menu, click [Print...].

The [Print] dialog box appears.

#### **2** Select the printer you want to use in the [Select Printer] list, and then click [Preferences].

#### **3** Make the necessary settings, and then click [OK] to start printing.

##### Note

- The procedure to open the [Printing Preferences] dialog box may vary depending on the application. For details, see the manuals provided with the application you use.
- Any settings you make in the procedure above are valid for the current application only.
- General users can change the properties displayed in the [Print] dialog box of an application. Settings made here are used as defaults when printing from this application.

##### Reference

For details about settings, see the printer driver Help.



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## Windows Vista and Windows Server 2008 - Making Printer Settings

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### Making the printer default settings - the [Printers] window

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#### Important

- To change the printer default settings including option configuration settings, log on using an account that has Manage Printers permission. Members of the Administrators and Power Users groups have Manage Printers permission by default.
- You cannot change the printer default settings for each user. Settings made in the printer properties dialog box are applied to all users.

#### **1** On the [Start] menu, click [Control Panel].

The [Control Panel] window appears.

#### **2** Click [Printers] in "Hardware and Sound".

#### **3** Right-click the icon of the printer you want to use, and then click the [Properties].

The printer properties dialog box appears.

#### **4** Make the necessary settings, and then click [OK].

#### Note

- Settings you make here are used as the default settings for all applications.
- Do not make a setting for [Form to Tray Assignment].

#### Reference

For details about settings, see the printer driver Help.

---

## Making the printer default settings - Printing Preferences

---

### Important

- You cannot change the printer default settings for each user. Settings made in the printer properties dialog box are applied to all users.

#### **1** On the [Start] menu, click [Control Panel].

The [Control Panel] window appears.

#### **2** Click [Printers] in “Hardware and Sound”.

#### **3** Right-click the icon of the printer you want to use, and then click [Printing Preferences...].

The [Printing Preferences] dialog box appears.

#### **4** Make the necessary settings, and then click [OK].

##### Note

- Settings you make here are used as the default settings for all applications.

##### Reference

For details about settings, see the printer driver Help.

---

## Making printer settings from an application

---

You can make printer settings for a specific application.

To make printer settings for a specific application, open the [Printing Preferences] dialog box from that application. The following explains how to make settings for the WordPad application provided with Windows Vista.

#### **1** On the [File] menu, click [Print...].

The [Print] dialog box appears.

#### **2** Select the printer you want to use in the [Select Printer] list.

#### **3** Make the necessary settings, and then click [Apply] to start printing.

##### Note

- The procedure to open the [Printing Preferences] dialog box may vary depending on the application. For details, see the manuals provided with the application you use.
- Any settings you make in the procedure above are valid for the current application only.
- General users can change the properties displayed in the [Print] dialog box of an application. Settings made here are used as defaults when printing from this application.

##### Reference

For details about settings, see the printer driver Help.

---

# PostScript 3 - Setting Up for Printing

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## Windows 2000 - Accessing the Printer Properties

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### Making the printer default settings - The printer properties

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2

#### Important

- To change the printer default settings including option configuration settings, log on using an account that has Manage Printers permission. Members of the Administrators and Power Users groups have Manage Printers permission by default.
- You cannot change the printer default settings for each user. Settings made in the printer properties dialog box are applied to all users.

**1** On the [Start] menu, point to [Settings], and then click [Printers].

The [Printers] window appears.

**2** Click the icon of the printer you want to use.

**3** On the [File] menu, click [Properties].

The printer properties dialog box appears.

**4** Make the necessary settings, and then click [OK].

#### Note

- Settings you make here are used as the default settings for all applications.
- Do not make a setting for [Form to Tray Assignment].

#### Reference

For details about settings, see the printer driver Help.

---

## Making the printer default settings - Printing Preferences

---

### Important

- You cannot change the printer default settings for each user. Settings made in the printer properties dialog box are applied to all users.

**1** On the [Start] menu, point to [Settings], and then click [Printers].

The [Printers] window appears.

**2** Click the icon of the printer you want to use.

**3** On the [File] menu, click [Printing Preferences...].

The [Printing Preferences] dialog box appears.

**4** Make the necessary settings, and then click [OK].

### Note

- Settings you make here are used as the default settings for all applications.

### Reference

For details about settings, see the printer driver Help.

---

## Making printer settings from an application

---

You can make printer settings for a specific application.

To make printer settings for a specific application, open the [Printing Preferences] dialog box from that application. The following explains how to make settings for the WordPad application provided with Windows 2000.

**1** On the [File] menu, click [Print...].

The [Print] dialog box appears.

**2** Select the printer you want to use in the [Select Printer] list.

**3** Make the necessary settings, and then click [Print] to start printing.

### Note

- The procedure to open the [Printing Preferences] dialog box may vary depending on the application. For details, see the manuals provided with the application you use.
- Any settings you make in the procedure above are valid for the current application only.
- General users can change the properties displayed in the [Print] dialog box of an application. Settings made here are used as defaults when printing from this application.

### Reference

For details about settings, see the printer driver Help.

---

## Windows XP and Windows Server 2003/2003 R2 - Making Printer Settings

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### Making the printer default settings - [Printers and Faxes] window

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#### Important

- To change the printer default settings including option configuration settings, log on using an account that has Manage Printers permission. Members of the Administrators and Power Users groups have Manage Printers permission by default.
- You cannot change the printer default settings for each user. Settings made in the printer properties dialog box are applied to all users.

#### **1** On the [Start] menu, click [Printers and Faxes].

The [Printers and Faxes] window appears.

#### **2** Click the icon of the printer you want to use.

#### **3** On the [File] menu, click [Properties].

The printer properties dialog box appears.

#### **4** Make the necessary settings, and then click [OK].

#### Note

- Settings you make here are used as the default settings for all applications.
- Do not make a setting for [Form to Tray Assignment].

#### Reference

For details about settings, see the printer driver Help.

---

## Making the printer default settings - Printing Preferences

---

### Important

- You cannot change the printer default settings for each user. Settings made in the printer properties dialog box are applied to all users.

**1** On the [Start] menu, click [Printers and Faxes].

The [Printers and Faxes] window appears.

**2** Click the icon of the printer you want to use.

**3** On the [File] menu, click [Printing Preferences...].

The [Printing Preferences] dialog box appears.

**4** Make the necessary settings, and then click [OK].

### Note

- Settings you make here are used as the default settings for all applications.

### Reference

For details about settings, see the printer driver Help.

---

## Making printer settings from an application

---

You can make printer settings for a specific application.

To make printer settings for a specific application, open the [Printing Preferences] dialog box from that application. The following explains how to make settings for the WordPad application provided with Windows XP.

**1** On the [File] menu, click [Print...].

The [Print] dialog box appears.

**2** Select the printer you want to use in the [Select Printer] list.

**3** Make the necessary settings, and then click [Print] to start printing.

### Note

- The procedure to open the [Printing Preferences] dialog box may vary depending on the application. For details, see the manuals provided with the application you use.
- Any settings you make in the procedure above are valid for the current application only.
- General users can change the properties displayed in the [Print] dialog box of an application. Settings made here are used as defaults when printing from this application.

### Reference

For details about settings, see the printer driver Help.

---

## Windows Vista and Windows Server 2008 - Making Printer Settings

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---

### Making the printer default settings - the [Printers] window

---

#### Important

- To change the printer default settings including option configuration settings, log on using an account that has Manage Printers permission. Members of the Administrators and Power Users groups have Manage Printers permission by default.
- You cannot change the printer default settings for each user. Settings made in the printer properties dialog box are applied to all users.

#### **1** On the [Start] menu, click [Control Panel].

The [Control Panel] window appears.

#### **2** Click [Printers] in "Hardware and Sound".

#### **3** Right-click the icon of the printer you want to use, and then click the [Properties].

The printer properties dialog box appears.

#### **4** Make the necessary settings, and then click [OK].

#### Note

- Settings you make here are used as the default settings for all applications.
- Do not make a setting for [Form to Tray Assignment].

#### Reference

For details about settings, see the printer driver Help.

---

## Making the printer default settings - Printing Preferences

---

### Important

- You cannot change the printer default settings for each user. Settings made in the printer properties dialog box are applied to all users.

#### **1** On the [Start] menu, click [Control Panel].

The [Control Panel] window appears.

#### **2** Click [Printers] in “Hardware and Sound”.

#### **3** Right-click the icon of the printer you want to use, and then click [Printing Preferences...].

The [Printing Preferences] dialog box appears.

#### **4** Make the necessary settings, and then click [OK].

#### Note

- Settings you make here are used as the default settings for all applications.

#### Reference

For details about settings, see the printer driver Help.

---

## Making printer settings from an application

---

You can make printer settings for a specific application.

To make printer settings for a specific application, open the [Printing Preferences] dialog box from that application. The following explains how to make settings for the WordPad application provided with Windows Vista.

#### **1** On the [File] menu, click [Print...].

The [Print] dialog box appears.

#### **2** Select the printer you want to use in the [Select Printer] list.

#### **3** Make the necessary settings, and then click [Apply] to start printing.

#### Note

- The procedure to open the [Printing Preferences] dialog box may vary depending on the application. For details, see the manuals provided with the application you use.
- Any settings you make in the procedure above are valid for the current application only.
- General users can change the properties displayed in the [Print] dialog box of an application. Settings made here are used as defaults when printing from this application.

#### Reference

For details about settings, see the printer driver Help.



# 3. Other Print Operations

## Form Feed

Use the form feed function to continue printing when a paper size or paper type error occurred.

This function can be performed using the control panel.

### Important

- The tray cannot be changed if the following function is set:
  - Duplex Print to a tray that does not support duplex printing
  - Cover Sheet
- If the paper that is loaded is larger than the paper size specified in the printer driver, using the form feed function could result in a paper jam. Use form feed only if the paper is the same as or smaller than the paper size specified in the printer driver.

---

## Performing Form Feed

---

Use the following procedure to perform form feed.

- 1** While an error message is displayed on the control panel, press the **[Stop/Start]** key.
- 2** Press **[▲]** or **[▼]** to select the tray, and then press the **[#Enter]** key.  
Printing begins on paper from the selected tray.

### Note

- If you want to print after adding paper to the tray, load the correct paper, and then press the **[Stop/Start]** key.
- If a tray with a smaller paper size is selected, the print job may be cut short, or other problems may occur.

---

## Changing the Paper Input Setting

---

Use the following procedure to change the paper input setting of the tray and continue printing.

**1** While an error message is displayed on the control panel, reload the tray you want to use with the correct paper.

If you reloaded the bypass tray, proceed to step **3**.

**2** Press the [Menu] key, press [▲] or [▼] to select tray 1 or tray 2, and then press the [#Enter] key.

**3** Press [▲] or [▼] to select the paper size, and then press the [#Enter] key.

**4** Press [▲] or [▼] to select the paper type, and then press the [#Enter] key.

Printing starts.

 **Note**

- The paper input settings you specify here become the printer's default settings.
- If you want to print on custom size paper, see Hardware Guide for details about how to specify custom size paper.

---

## Canceling a Print Job

---

Use the following procedure to cancel a print job that is related to the printer error occurred.

**1** Press the [Job Reset] key.

**2** Press the [#Enter] key.

# Canceling a Print Job

This section gives instruction to stop printing from the control panel or computer.

---

## Canceling a Print Job Using the Control Panel

---

You can cancel a print job using the control panel, if transferring print jobs is not completed.

- 1** Press the **[Job Reset]** key.
- 2** Press the **[#Enter]** key.

---

## Windows - Canceling a Print Job from the Computer

---

You can cancel a print job from the computer if the transferring print job is not completed.

- 1** Double-click the printer icon on the Windows task tray.

A window appears, showing all print jobs currently queued for printing. Check the current status of the job you want to cancel.

- 2** Select the name of the job you want to cancel.
- 3** On the **[Document]** menu, click **[Cancel Printing]**.

### Note

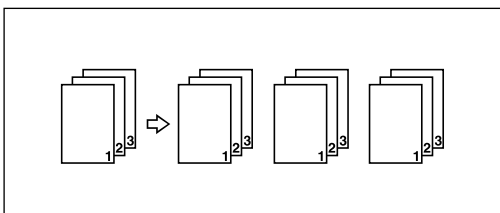
- In Windows XP and Windows Server 2003/2003 R2, click **[Cancel]** on the **[Document]** menu.
- In Windows 2000/Vista and Windows Server 2008, you can also open the print job queue window by double-clicking the printer icon in the **[Printers]** window (the **[Printers and Faxes]** window under Windows XP and Windows Server 2003/2003 R2).
- You cannot stop printing data that has already been processed. For this reason, printing may continue for a few pages after you cancel printing.
- A print job containing a large volume of data may take considerable time to stop.

# Collate

Use the Collate function to print documents into page-ordered sets.

## ❖ Collate

Output can be assembled as sets in sequential order.



## Note

- If Auto Continue occurs on the first set, the Collate will be canceled.
- If a form feed occurs on the first set, the Collate will be canceled.

## Reference

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

---

# Cover

Use the Cover function to insert cover sheets using paper in a specified tray.

 **Note**

- The cover sheet's size and orientation must be the same as those of the body paper.
- This function is available only when using the PCL printer driver.

 **Reference**

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

# Watermark

Use the Watermark function to print watermark text.

 **Note**

- If the watermark size is larger than the paper size, watermarks cannot be printed properly.

 **Reference**

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

# Manual Duplex

Use the manual duplex printing function to print on both sides of sheets.

## Important

- This function is only available for the SP C231N model printer.
- This function is only available for PCL5c and PCL6.
- When printing on the other side of sheets, reload the paper into Tray 1.

## Note

- If you select **[Auto Tray Select]** when performing duplex printing, the printer searches for an appropriate tray for the first page only. All subsequent pages will be printed using that tray.
- When you print a document whose page count is an odd number, a blank page is printed first. This blank page is the last page of the document. When you start printing on the other side of sheets, include the sheet containing this blank page in the bundle of paper.

When a print job that contains an even number of pages is completed, a dialog box prompting you to reload the paper appears on Smart Organizing Monitor.

Follow the instructions on the screen to start printing on the other side of sheets.

Place the original face down into Tray 1, and then press the **[Stop/Start]** key to start printing the other side.

## Memory Capacity and Paper Size

This section explains about the printable paper sizes according to the printer's memory capacity.

### ❖ One-sided printing - 600 dpi Fine (4 bits)

- 128 MB (standard)  
Printing is possible with all paper sizes.

### ❖ Duplex printing - 600 dpi Fine (4 bits)

- 128 MB (standard)  
With the PCL printer driver:  
Printing is possible with A4 (210 x 297 mm) / Letter (8 1/2 x 11 inches) or smaller paper sizes.  
With the PS3 printer driver:  
Complex images might fail to print out properly on some paper sizes.
- 384 MB (standard and additional 256 MB)  
Printing is possible with all paper sizes.

### Note

- To print an A3, 11 " × 17 ", B4, or 8K size document, you must first select the **[Enable Large Papers]** check box on the **[Advanced Options]** tab in the printer driver's properties dialog box. The document is reduced to fit the specified paper size, and then printed.

### Reference

For details about the paper size, see Hardware Guide.



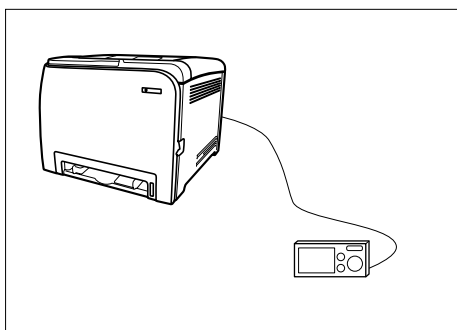
# 4. Direct Printing from a Digital Camera (PictBridge)

## What Is PictBridge?

### Important

- This function is only available for the SP C232DN model printer.

You can connect a PictBridge-compatible digital camera to this printer using a USB cable. This allows you to print photographs taken using the digital camera directly by operating the digital camera.



### Note

- Check your digital camera is PictBridge-compatible.
- Up to 999 images can be sent from the digital camera to the printer during one print transaction. If an attempt is made to send more images, an error message is sent to the camera and printing fails.
- Since printing conditions are specified on the digital camera, specifiable parameters depend on the digital camera. For details, see the manuals provided with the digital camera.
- This function is compatible with USB 1.1.

# PictBridge Printing

Use the following procedure to start PictBridge printing on this printer.

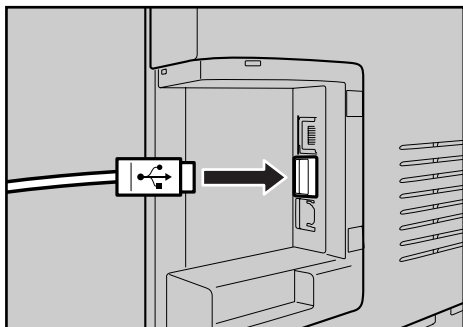
## Important

- Memory overflow errors can occur when printing a large-pixel image using 4-up printing. To prevent memory overflow errors, add the optional memory.
- Do not disconnect the USB cable while data is being sent. If you do, printing will fail.

**1** Check the printer and the digital camera are both turned on.

**2** Connect a USB cable between the USB host interface board installed on the printer and digital camera.

The **Ready** indicator on the printer flashes for several seconds and then stays lit. This indicates the printer recognizes the digital camera as a PictBridge device.



ASH108S

**3** On your digital camera, select the images you want to print, and then specify the printing conditions.

**4** The printer receives settings from the digital camera and starts printing.

## Note

- Since printing conditions are specified on the digital camera, specifiable parameters depend on the digital camera. For details, see the manuals provided with the digital camera.
- Some digital cameras require settings for manual PictBridge operation. For details, see the manual provided with the digital camera.
- Some digital cameras require to turn the power switch off for a manual PictBridge operation. For details, see the manual provided with the digital camera.
- Some digital cameras need to be switched off when connecting to the printer. For details, see the manual provided with the digital camera.

## Reference

For details about how to stop printing data, see p.30 “Canceling a Print Job”.

# What Can Be Done on This Printer

This printer can perform the following functions using its PictBridge feature.

The settings available for these functions are as follows:

- Single image printing
- Selected image printing
- All image printing
- Index printing
- Copies
- Paper size
- N-up layout

## Note

- The setting parameters and their names may vary depending on the digital camera. For details, see the manuals provided with the digital camera.

---

## Paper Size

---

Use this function to print on paper with the size specified on the digital camera.

Paper size name	Actual size
A4	210 × 297 mm (8.3 × 11.7 in)
Letter (8 1/2" × 11")	215.9 × 279.4 mm (8 1/2 × 11 in)

## Note

- For details about specifying undefined sizes, see Hardware Guide.

---

## Image Print Size

---

Use this function to print images with the size specified on the digital camera.

## Note

- This functions default setting is fit to paper.
- Scale factor depends on image size and paper size.
  - Scale Factor: 25% - 400%.

## Exiting PictBridge

Use the following procedure to quit the PictBridge mode.

### Important

Do not disconnect the USB cable while data is being sent to the printer. If you do, printing will fail.

- 1** Check the printer's Ready indicator is lit.
- 2** Disconnect the USB cable from the printer.

# When PictBridge Printing Does Not Work

This section explains likely causes and possible solutions for problems that can occur when PictBridge printing.

Problem	Cause	Solution
PictBridge is not available.	There is a problem with the USB connection or the PictBridge settings.	Use the following procedure to check the connection and settings: <ol style="list-style-type: none"> <li>① Disconnect and then reconnect the USB cable.</li> <li>② Check the PictBridge settings are enabled.</li> <li>③ Disconnect the USB cable, and then turn off the printer. Turn the printer back on. When the printer has fully booted up, reconnect the USB cable.</li> </ol>
When two or more digital cameras are connected, the second and subsequent cameras are not recognized.	You have connected multiple digital cameras.	Connect one digital camera only. Do not connect multiple cameras.
Printing is disabled.	The specified number exceeds the maximum number that can be printed at a time.	The maximum specifiable print quantity at a time is 999. Respecify the quantity to 999 or less, and then retry printing.
Printing is disabled.	There is no paper of the specified size remaining.	There is no paper of the specified size remaining. If you have to use paper that is not of the specified size, perform Form Feed. To cancel printing, perform Job Cancel.
Printing is disabled.	The paper size setting for this tray cannot be printed on the printer.	Select the paper size setting that can be printed on the printer.



# 5. Making Printer Settings Using the Control Panel

## Menu Chart

This section lists the parameters included in each menu

### ❖ Paper Input

Paper Size
Paper Type
Tray Priority

### ❖ List/Test Print

Config. Page
Menu List
Test Page
PCL Config. Page
PS Config. Page

### ❖ Maintenance

Color Dens/Reg
Registration

### ❖ System

Auto Continue
Copies
Sub Paper Size
Duplex
Blank Pages
Energy Saver 1
Energy Saver 2
B&W Page Detect
Auto Email Ntfy
System Defaults
Print Error Pg.
Anti-Humidity

❖ **Host Interface**

USB Timeout
Network Timeout
Network Setup
USB Speed

❖ **PCL Menu**

Orientation
Form Lines
Font Number
Point Size
Font Pitch
Symbol Set
Courier Font
Ext. A4 Width
Append CR to LF
Resolution

❖ **PS Menu**

Resolution
Color Profile



**❖ Language**

English
German
French
Italian
Dutch
Swedish
Norwegian
Danish
Spanish
Finnish
Portuguese
Czech
Polish
Hungarian
Russian
Simp. Chinese

** Note**

- This items above might not appear on the display, according to machine model.

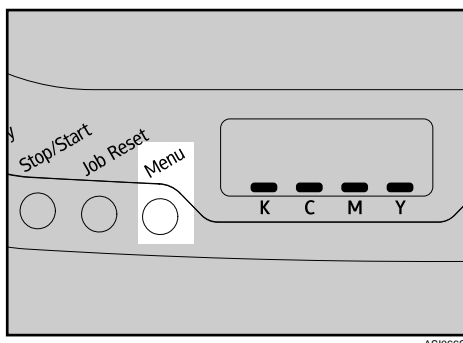
# Paper Input Menu

This section explains about paper settings on the Paper Input menu such as paper sizes and types on each tray.

## Changing the Paper Input Menu

Use the following procedure to change the tray priority.

- 1 Press the [Menu] key.



The menu screen appears.

- 2 Press [▲] or [▼] to display [Paper Input], and then press the [#Enter] key.
- 3 Press [▲] or [▼] to display [Tray Priority], and then press the [#Enter] key.
- 4 Press [▲] or [▼] to select the tray you want to use.
- 5 Press the [#Enter] key.

The selected item is displayed for two seconds with an asterisk, and then the [Tray Priority] screen appears.

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

## Paper Input Menu Parameters

This section explains about parameters that can be set on the Paper Input menu.

### ❖ Paper Size: Tray 1

Specify the paper size for tray 1.

Default:  A4 (210 x 297),  8 1/2 x 11

- A4 (210 x 297), A5 (148 x 210), B5 JIS(182x257), A6 (105 x 148), 8 1/2 x 14, 8 1/2 x 13, 8 1/2 x 11, 8 1/4 x 13, 8 x 13, 7 1/4 x 10 1/2, C5 Env(162x229), C6 Env(114x162), DL Env(110x220), 16K (195 x 267), Custom Size

❖ **Paper Size: Tray 2**

Specify the paper size for tray 2.

Default:  A4 (210 x 297),  8 1/2 x 11

- A4 (210 x 297), 8 1/2 x 11

❖ **Paper Size: Bypass Tray**

Specify the paper size for the bypass tray.

Default:  A4 (210 x 297),  8 1/2 x 11

- A4 (210 x 297), A5 (148 x 210), A6 (105 x 148), B5 JIS(182x257), B6 JIS(128x182), 8 1/2 x 14, 8 1/2 x 13, 8 1/2 x 11, 8 1/4 x 13, 8 x 13, 7 1/4 x 10 1/2, 5 1/2 x 8 1/2, 4 1/8 x 9 1/2, 3 7/8 x 7 1/2, C5 Env(162x229), C6 Env(114x162), DL Env(110x220), 16K (195 x 267), Custom Size

❖ **Paper Type: Tray 1**

Specify the paper type for tray 1.

Default : Plain Paper 1

- Thin Paper, Plain Paper 1, Plain Paper 2, Recycled Paper, Color Paper, Letterhead, Preprinted, Prepunched, Thick Paper 1, Bond Paper, Cardstock, Label Paper, Envelope

❖ **Paper Type: Tray 2**

Specify the paper type for tray 2.

Default : Plain Paper 1

- Thin Paper, Plain Paper 1, Plain Paper 2, Recycled Paper, Color Paper, Letterhead, Preprinted, Prepunched

❖ **Paper Type: Bypass Tray**

Specify the paper type for the bypass tray.

Default: Plain Paper 1

- Thin Paper, Plain Paper 1, Plain Paper 2, Recycled Paper, Color Paper, Letterhead, Preprinted, Prepunched, Thick Paper 1, Bond Paper, Cardstock, Label Paper, Envelope

❖ **Tray Priority**

The tray selected here is used when no tray is specified for a print job.

**[Tray 2]** is available only when the optional paper feed unit is attached to the printer. It is recommended that you load paper of the size and orientation you use most frequently in the tray selected in **[Tray Priority]**.

Default : Tray 1

- Tray 1
- Tray 2
- Bypass Tray

 **Note**

JIS stands for “Japanese Industrial Standard”.

 **Reference**

For details about the type of paper loaded in each tray, see Hardware Guide.

## List/Test Print Menu

You can print lists of configurations on printer or the paper printings. Also, you can check the types and characters of all the printable fonts.

---

### Printing the Configuration Page

---

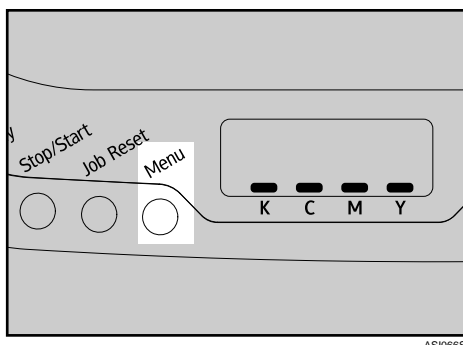
Use the following procedure to print the configuration page.

#### Important

- The configuration page is printed on A4 or Letter (8<sup>1</sup>/<sub>2</sub> " × 11 ") size paper from the priority tray. Load this size of paper into the priority tray before printing the configuration page.

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

5



The menu screen appears.

#### **2** Press [▲] or [▼] to display [List/Test Print], and then press the [#Enter] key.

#### **3** Press [▲] or [▼] to display [Config. Page], and then press the [#Enter] key.

The configuration page is printed. The [List/Test Print] screen appears on completion of printing.

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

#### Note

- If you start configuration page printing when appropriate paper is not loaded, an error message appears. If this happens, load appropriate paper in a tray, and then perform a form feed, or cancel the job.

#### Reference

For details about the items displayed on the configuration page, see p.85 "Reading the Configuration Page".

---

## List/Test Print Menu Parameters

---

This section explains about parameter that can be set on the List/Test Print menu.

❖ **Config. Page**

Prints the current configurations and general information of the printer.

❖ **Menu List**

Prints the menu list showing all available menus.

❖ **Test Page**

Prints a test page for checking the printing condition. The test page contains network settings and counter information.

❖ **PCL Config. Page**

Prints the current configuration and installed PCL font list.

❖ **PS Config. Page**

Prints the current configuration and installed PostScript font list.

 **Note**

- Due to print layout limitations, the menu order of the menu list might not match to that of the display panel.

# Maintenance Menu

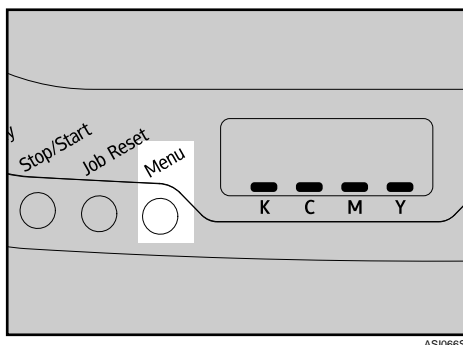
You can set print conditions such as color registration and print starting position.

## Adjusting the Color Registration

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

If documents show color degradation after the printer is moved, perform automatic color adjustment.

- 1** Press the [Menu] key.



The menu screen appears.

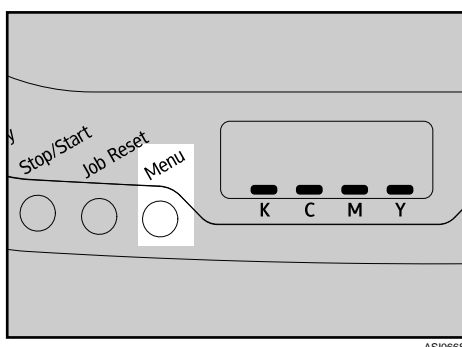
- 2** Press [▲] or [▼] to display [Maintenance], and then press the [#Enter] key.
- 3** Press [▲] or [▼] to display [Color Dens/Reg], and then press the [#Enter] key.
- 4** On the confirmation screen, press the [#Enter] key.  
Automatic color adjustment begins.  
A confirmation message appears when complete.
- 5** Press the [Menu] key to return to the initial screen.

## Adjusting Tray Registration

After installing the optional paper feed unit, you can adjust the registration of tray 2 if necessary.

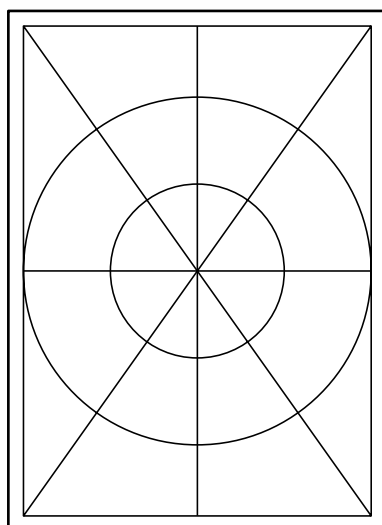
Registration adjustment is not normally required, but can be beneficial in some cases.

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



The menu screen appears.

- 2 Press **[▲]** or **[▼]** to display **[Maintenance]**, and then press the **[#Enter]** key.
- 3 Press **[▲]** or **[▼]** to display **[Registration]**, and then press the **[#Enter]** key.
- 4 Press **[▲]** or **[▼]** to display **[Prt. Test Sheet]**, and then press the **[#Enter]** key.
- 5 Press the **[#Enter]** key to print the test sheet to preview the settings.
- 6 Confirm the position of the image on the test sheet, and then adjust the registration value.



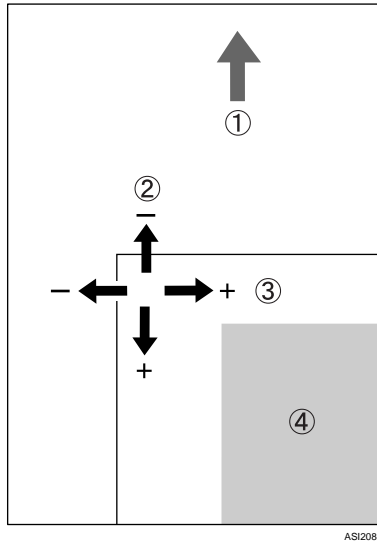
In this setting, adjust the margins of the test sheet so that they are equal in size.

**7** Press [▲] or [▼] to display [Adjustment], and then press the [#Enter] key.

**8** Press [▲] or [▼] to select the parameter you want to adjust, and then press the [#Enter] key.

**9** Press [▲] or [▼] to set the registration value (mm).

Increase the value to shift the print area in the positive direction, and decrease to shift in the negative direction.



① : Feed Direction

② : Vertical Adjustment

③ : Horizontal Adjustment

④ : Print Area

Pressing [▲] or [▼] makes the value increase or decrease by 1.0 mm steps.

**10** Press the [#Enter] key.

The display returns to the registration menu screen.

**11** Press [▲] or [▼] to display [Prt. Test Sheet], and then press the [#Enter] key.

**12** Press the [#Enter] key to print the test sheet to confirm the adjustment result.

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



---

## Maintenance Menu Parameters

---

This section explains about parameters that can be set on the Maintenance menu.

### ❖ Color Dens/Reg

You can adjust color density and registration automatically.

### ❖ Registration

You can adjust the printing position of tray 2.

- **Prt. Test Sheet**  
You can print the registration test sheet.
- **Adjustment**  
Select the start position for printing on a page.  
Horiz.:Tray 2  
Vert.:Tray 2

### **Note**

- The registration test sheet is printed on A4 or Letter (8 1/2 " × 11 ") size paper from the priority tray. Load this size of paper into the priority tray before printing the registration test sheet.

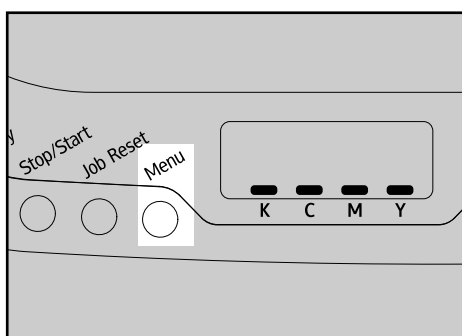
# System Menu

You can set basic functions required to use the printer. The printer can be used on factory default, but the configuration can be changed depending on the condition of the user. The changed condition holds even if the printer is turned off.

## Changing the System Menu

Use the following procedure to change the settings for Energy Saver timer.

- 1** Press the [Menu] key.



ASI066S

The menu screen appears.

- 2** Press [▲] or [▼] to display [System], and then press the [#Enter] key.
- 3** Press [▲] or [▼] to display [Energy Saver 2], and then press the [#Enter] key.
- 4** Press [▲] or [▼] to display [E. Saver2 Timer], and then press the [#Enter] key.
- 5** Select the lead time needed to switch to the Energy Saver mode using [▲] or [▼].
- 6** Press the [#Enter] key.  
The selected lead time is displayed for two seconds with an asterisk, and then the [Energy Saver 2] screen appears.
- 7** Press the [Menu] key to return to the initial screen.

---

## System Menu Parameters

---

This section explains about parameters that can be set on the System menu.

### ❖ Auto Continue

You can make the Auto Continue setting. When set to **[On]**, printing continues in ten seconds if a system error occurs.

However, even if you set to **[On]** and certain errors occur, the current job may be canceled, and the printer automatically performs the next queued job.

Default: Off

- Off
- On

### ❖ Copies

You can specify the number of pages to print.

This setting is disabled if the number of pages to print is specified by command or the printer driver.

- 1 - 999

### ❖ Sub Paper Size

You can select **[Off]** or **[Auto]** to enable the Sub Paper Size function. When you select **[Auto]**, the printer uses an alternative paper size if the currently specified paper is not loaded. When you select **[Off]**, the printer uses any size paper in the currently specified paper tray.

This setting is effective only for jobs that use A4 or Letter size paper.

Default: Off

- Off
- Auto

### ❖ Duplex

You can specify whether or not to print on both sides of a sheet.

Default: Off

- Off
- Short Edge Bind
- Long Edge Bind

### ❖ Blank Pages

You can specify whether or not to print blank pages.

When cover sheet printing is enabled from the printer driver, cover sheets are inserted even if you select **[Do not print]**.

Default: Print

- Print
- Do not print

### ❖ **Energy Saver 1**

You can specify whether or not to switch to Low Power Standby mode. Low Power Standby mode lowers the fusing unit temperature. When the printer switches to Low Power Standby mode, a message appears on the control panel, or the control panel indicators and display appear unlit. The Ethernet indicator remains lit.

Default: On

- On
- Off

### ❖ **Energy Saver 2**

You can specify the number of minutes the Energy Saver mode is applied. The Energy Saver mode reduces electric power consumption.

#### • E.Saver2 On/Off

You can specify whether or not to switch to the Energy Saver mode. When the printer switches to Energy Saver mode, the indicators and panel display are unlit; however, the Ethernet indicator remains lit.

Default: On

- On
- Off
- E. Saver2 Timer

Select the lead time needed to switch to Energy Saver mode.

Default: 15 minutes

- 5 minutes
- 15 minutes
- 30 minutes
- 60 minutes

### ❖ **B&W Page Detect**

You can specify whether or not to recognize black-and-white images. Use the black-and-white recognition function to print all monochrome pages in monochrome mode even if color printing is specified.

Default: On

- On
- Off

### ❖ Auto Email Ntfy

You can specify whether or not to send an error message to a preset e-mail address when an error occurs in the printer.

Default: Off

- On
- Off

### 🔔 Important

- After changing the setting, turn off the power of the printer briefly, and then turn it on again.

### 🔍 Reference

For information, see Web Image Monitor Help.

### ❖ System Defaults

You can return the printer settings to their factory-set defaults.

### ❖ Print Error Pg.

You can specify whether or not to print error logs on the configuration page.

Default: Off

- On
- Off

### ❖ Anti-Humidity

You can set the printer to produce prints in consistent quality even when humidity is high.

Default: Off

- Off
- Mode 1  
Select this mode if printouts are blurred.
- Mode 2  
Select this mode if printouts are curled and/or blurred. Note that if you select this mode, the first print takes longer than subsequent prints to complete.
- Mode 3  
Select this mode if printouts are still curled and/or blurred even when prints are made in **[Mode 2]**. Note that this mode requires more time to produce the first print than **[Mode 2]**.

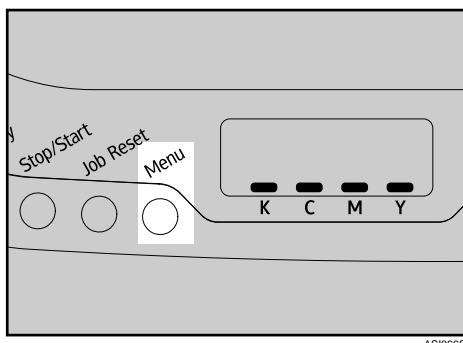
# Host Interface Menu

You can set configurations about network connections and communication. The changed configuration holds even if the printer is turned off.

## Changing the Host Interface Menu

Use the following procedure to change the settings for Network Setup.

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



The menu screen appears.

- 2** Press **[▲]** or **[▼]** to display **[Host Interface]**, and then press the **[#Enter]** key.
- 3** Press **[▲]** or **[▼]** to display **[Network Setup]**, and then press the **[#Enter]** key.
- 4** Press **[▲]** or **[▼]** to display **[DHCP]**, and then press the **[#Enter]** key.
- 5** Press **[▲]** or **[▼]** to display **[On]** or **[Off]** according to the network environment, and then press the **[#Enter]** key.  
If you select **[On]**, proceed to step **6**.
- 6** Press **[▲]** or **[▼]** to display **[IP Address]**, and then press the **[#Enter]** key.
- 7** Specify the printer's IP address using **[▲]** or **[▼]** keys, and then press the **[#Enter]** key.
  - To go to the next field, press the **[#Enter]** key.
  - To go back to the previous field, press the **[Escape]** key.
- 8** Set the subnet mask and gateway address.  
Set values for each setting following the same procedure as for the IP address.
- 9** Press the **[Menu]** key to return to the initial screen.

---

## Host Interface Menu Parameters

---

This section explains parameters that can be set on the Host Interface menu.

### ❖ USB Timeout

You can specify how many seconds the printer should wait before ending a print job that is receiving via USB. If printing is frequently interrupted by data from other ports, increase the timeout period.

Default: 60 seconds

- 15 seconds
- 60 seconds
- 300 seconds

### ❖ Network Timeout

You can specify how many seconds the printer should wait before ending a print job that is receiving via Ethernet. If printing operation is frequently interrupted by data from other ports, you can increase the timeout period.

Default: 60 seconds

- 15 seconds
- 60 seconds
- 300 seconds

### ❖ Network Setup

You can make network-related settings.

- DHCP  
Select whether to set the IPv4 address automatically or manually.  
Default: On
  - On
  - Off

#### Important

- After changing the setting, turn off the power of the printer briefly, and then turn it on again.
- MAC Address  
Check the MAC address.
- IP Address  
Specify the IPv4 address.  
When **[DHCP]** is set to **[On]**, the IP address cannot be changed.  
To change it, set **[DHCP]** to **[Off]**.  
Contact your network administrator for information about the network configuration.  
Default: 192.0.0.192
- Subnet Mask  
Specify the subnet mask.  
When **[DHCP]** is set to **[On]**, the subnet mask cannot be changed.  
To change it, set **[DHCP]** to **[Off]**. Contact your network administrator for information about the network configuration.  
Default: 255.255.255.0

- Gateway Address  
Specify the gateway address.  
When **[DHCP]** is set to **[On]**, the gateway address cannot be changed.  
To change it, set **[DHCP]** to **[Off]**.  
Contact your network administrator for information about the network configuration.  
Default: 192.0.0.192
- Frame Type (NW)  
Default: Auto Select
  - Auto Select
  - Ethernet II
  - Ethernet 802.2
  - Ethernet 802.3
  - Ethernet SNAP
- Active Protocol  
Select active protocols.
  - TCP/IP  
Default: Active  
Active, Not Active
  - NetWare  
Default: Active  
Active, Not Active
  - AppleTalk  
Default: Active  
Active, Not Active
- Ethernet Speed  
Select the network speed to operate the printer.  
Default: Auto Select
  - Auto Select
  - 10Mbps Half D.
  - 10Mbps Full D.
  - 100Mbps Half D.
  - 100Mbps Full D.

❖ **USB Speed**

You can make setting for USB Host interface.

Default: Auto Select

- Full Speed
- Auto Select

 **Important**

- After changing the setting, turn off the power of the printer briefly, and then turn it on again.
- This function is only available for the SP C232DN model printer.



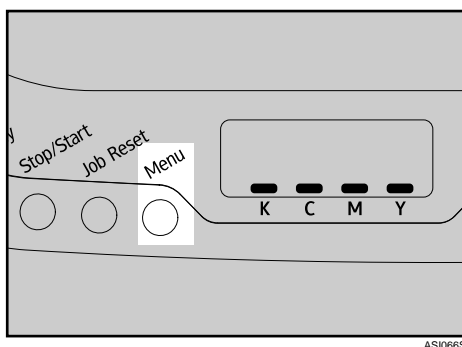
# PCL Menu

You can set conditions when using PCL for printing.

## Changing the PCL Menu

Use the following procedure to change the settings for Orientation.

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



The menu screen appears.

- 2 Press **[▲]** or **[▼]** to display **[PCL Menu]**, and then press the **[#Enter]** key.

- 3 Press **[▲]** or **[▼]** to display **[Orientation]**, and then press the **[#Enter]** key.

- 4 Press **[▲]** or **[▼]** to select the orientation, and then press the **[#Enter]** key.

The selected orientation is displayed for two seconds with an asterisk, and then the **[PCL Menu]** screen appears.

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

## PCL Menu Parameters

This section explains about parameters that can be set on the PCL Menu.

### ❖ Orientation

You can select the page orientation.

Default: Portrait

- Portrait
- Landscape

### ❖ Form Lines

You can specify the number of lines per page between 5 and 128.

Default:  64,  60

### ❖ Font Number

You can specify the ID of the default font you want to use.

Default: 0

### ❖ **Point Size**

You can specify the point size you want to use for the default font between 4 and 999.75 in 0.25 increments.

Default: 12.00 points

### ❖ **Font Pitch**

You can specify the number of characters per inch you want to use for the default font between 0.44 and 99.99 in 0.01 increments.

This setting is effective only for fixed-space fonts.

Default: 10.00 pitch

### ❖ **Symbol Set**

You can specify the character set for the default font. Available sets are as follows: Roman-8, Roman-9, ISO L1, ISO L2, ISO L5, PC-8, PC-8 D/N, PC-850, PC-852, PC-858, PC8-TK, Win L1, Win L2, Win L5, Desktop, PS Text, VN Intl, VN US, MS Publ, Math-8, PS Math, VN Math, Pifont, Legal, ISO 4, ISO 6, ISO 11, ISO 15, ISO 17, ISO 21, ISO 60, ISO 69, Win 3.0, MC Text, ISO L6, ISO L9, , PC-1004, Win Balt

Default: PC8-TK

### ❖ **Courier Font**

You can select a courier-type font.

Default: Regular

- Regular
- Dark

### ❖ **Ext. A4 Width**

You can extend the width of the printable area of A4 portrait paper by reducing side margin width.

Default: Off

- Off
- On

### ❖ **Append CR to LF**

You can specify whether or not to append a CR code to each LF code to print text data clearly.

Default: Off

- Off
- On

### ❖ **Resolution**

You can specify the print resolution in dots per inch.

600x600 dpi 1bit

- 600x600 dpi 1bit
- 600x600 dpi 2bit
- 600x600 dpi 4bit

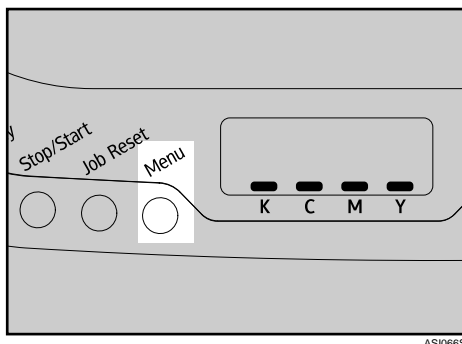
# PS Menu

You can set conditions when using PostScript for printing.

## Changing the PS Menu

Use the following procedure to change the settings for Resolution.

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



The menu screen appears.

- 2 Press **[▲]** or **[▼]** to display **[PS Menu]**, and then press the **[#Enter]** key.
- 3 Press **[▲]** or **[▼]** to display **[Resolution]**, and then press the **[#Enter]** key.
- 4 Press **[▲]** or **[▼]** to select the resolution, and then press the **[#Enter]** key.  
The selected resolution is displayed for two seconds with an asterisk, and then the **[PS Menu]** screen appears.
- 5 Press the **[Menu]** key to return to the initial screen.

## PS Menu Parameters

This section explains about parameters that can be set on the PS Menu.

### ❖ Resolution

You can specify the print resolution in dots per inch.

Default: 600x600 dpi 1bit

- 600x600 dpi 1bit
- 600x600 dpi 2bit
- 600x600 dpi 4bit

### ❖ Color Profile

You can select the color profile.

Default: Solid Color

- Off
- Solid Color
- Presentation
- Photographic

## Language Menu

You can set language displayed on the menu.

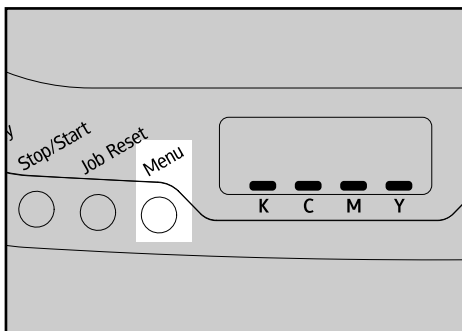
---

### Changing the Language Menu

---

Use the following procedure to change the language.

- 1** Press the [Menu] key.



The menu screen appears.

- 2** Press [▲] or [▼] to display [Language], and then press the [#Enter] key.

- 3** Press [▲] or [▼] to select the language, and then press the [#Enter] key.

The selected item is displayed for two seconds with an asterisk, and then the [Language] screen appears.

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

---

### Language Menu Parameters

---

You can select the language you want to use. Available languages are as follows:  
English, German, French, Italian, Dutch, Swedish, Norwegian, Danish, Spanish, Finnish, Portuguese, Czech, Polish, Hungarian, Russian, Simp. Chinese.

If you select Czech, Polish, Hungarian, Russian, Simplified Chinese, the control panel uses English as the display language. The configuration page and test page are printed using the language selected here.

Default: English

# 6. Monitoring and Configuring the Printer

## Using Web Image Monitor

Using Web Image Monitor, you can check the printer status and change settings.

### ❖ Available operations

The following operations can be remotely performed using Web Image Monitor from a client computer:

- Display printer status and supply information
- Displaying the counter information
- Making settings for paper loaded into each input tray
- Making input tray settings
- Printing a list of printer configuration
- Making network protocol settings

### ❖ Configuring the printer

To perform the operations from Web Image Monitor, TCP/IP is required. After the printer is configured to use TCP/IP, operations from Web Image Monitor become available.

### ❖ Recommended Web browser

- Windows:  
Internet Explorer 5.5 SP2 or higher  
Firefox 1.0 or higher
- Mac OS X:  
Firefox 1.0 or higher  
Safari 1.0, 1.2, 2.0 or higher

### Note

- If the previous versions of the Web browser above are used or JavaScript and cookies are not enabled with the Web browser used, display and operation problems may occur.
- If you are using a proxy server, change the Web browser settings. Contact your network administrator for information about the settings.
- The previous page may not appear even after the back button of the Web browser is clicked. If this happens, click the refresh button of the Web browser.
- Updating the printer information is not automatically performed. Click [**Refresh**] in the main area to update the printer information.
- We recommend using Web Image Monitor in the same network.
- You cannot access the printer from outside the firewall.
- When using the printer under DHCP, the IPv4 address may be automatically changed by the DHCP server settings.
- If the HTTP port is disabled, connection to the printer using the printer's URL cannot be established.

## Displaying Top Page

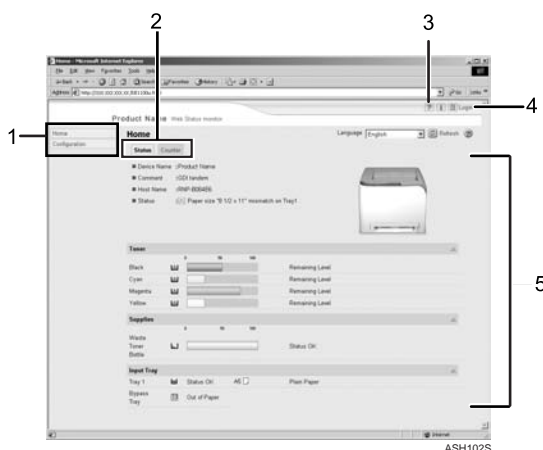
This section explains how to display Web Image Monitor and its Top Page.

### Displaying Top Page of Web Image Monitor

- 1** Start your Web browser.
- 2** Enter “http://(printer's address)/” in the address bar of the Web browser.  
Top Page of Web Image Monitor appears.  
If the printer's host name has been registered on the DNS server, you can enter it.

### Top Page

Every Web Image Monitor page is divided into the following areas:



#### 1. Menu area

When you select **[Configuration]**, content of the **[Configuration]** page appears on the main area.

#### 2. Tab area

Contains menus for the Status and Counter modes and tabs for switching between them.

#### 3. Help

Use Help to view help file contents.

#### 4. Login

Click to log on in administrator mode.

#### 5. Main area

Displays the contents of the item selected in the menu area.

Machine information in the main area is not automatically updated. Click **[Refresh]** at the upper right in the main area to update the machine information. Click the Web browser's **[Refresh]** button to refresh the entire browser screen.

---

## Displaying the Printer Status

---

Top page of Web Image Monitor contains two tabs: the **[Status]** tab and **[Counter]** tab.

### ❖ **[Status] tab**

You can check the status of monitored printers.

- Displays the general information of the printer, such as the model name, location and the status.
- Toner  
Displays the levels of remaining toner.
- Supplies  
Displays the status of the consumables.
- Input Tray  
Displays the input tray status and paper settings.

### ❖ **[Counter] tab**

You can check the total number of pages printed to date. The following counter information is displayed.

- Total
- Black & White
- Full Color
- 2 Sided (Two Sided Print)

---

## About Menu and Mode

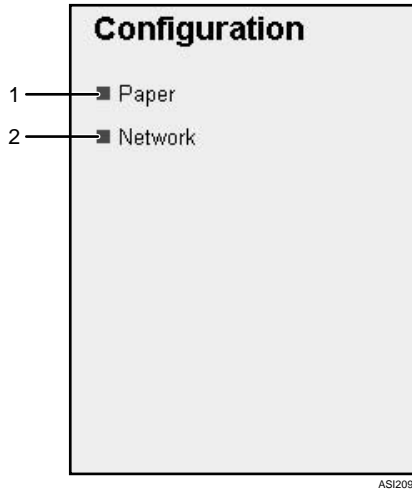
---

There are two modes available with Web Image Monitor: user mode and administrator mode.

The available menus on the **[Configuration]** page differ depending on the mode you are logging on.

❖ **User Mode**

In this mode, users can view settings but cannot change them.



**1. Paper**

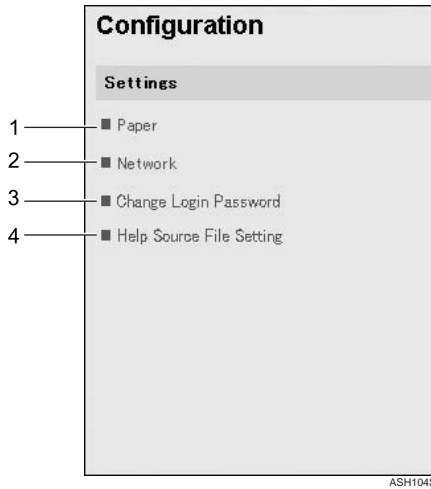
Click to display the **[Paper]** page.

**2. Network**

Click to display the **[Network]** page.

❖ **Administrator Mode**

In this mode, users can make input tray and network settings.



**1. Paper**

Click to display the **[Paper]** page.

**2. Network**

Click to display the **[Network]** page.

**3. Change Login Password**

Click to change the login password.

**4. Help Source File Setting**

Click to specify the Help source file.



---

## Access in the Administrator Mode

---

Use the following procedure to access Web Image Monitor in the administrator mode.

 **Note**

- When you access Web Image Monitor in the administrator mode, "Administrator" appears under **[Logout]**.

---

### Log on

---

**1** On Top Page, click **[Login]**.

The dialog box for entering the user name and password appears.

**2** Enter the user name and password, and then click **[OK]**.

 **Note**

- For details about the login user name and password, consult your network administrator.

---

### Log off

---

Click **[Logout]** to log off.

 **Note**

- When log on and made the settings, always click **[Logout]**.

---

## Configuring the Printer Settings

---

From the **[Configuration]** page, two menus are available to configure the settings.

 **Important**

- To make printer settings, you must access Web Image Monitor in administrator mode. If you access Web Image Monitor in user mode, you can view the printer settings, but you cannot change them.

❖ **Paper**

Displays the **[Paper]** page.

On the **[Paper]** page, following operations are possible:

- Setting the paper size and type on each tray
- Changing the tray priority
- Printing lists of configuration of the printer

**❖ Network**

Displays the **[Network]** page.

On the **[Network]** page, following operations are possible:

- Checking the information of the printer
- Interface settings
- Protocol settings
- Resetting to factory-set defaults

---

**Changing the paper settings**

---

On the **[Paper]** page, you can change paper size and other paper settings.

**❖ Tray 1**

- Paper Size  
Specify the paper size for tray 1.  
A4, B5 JIS, A5, 8 1/2 x 14, 8 1/2 x 11, 7 1/4 x 10 1/2, 8 x 13, 8 1/2 x 13, 8 1/4 x 13, Custom Paper Size
- Unit  
Specify the unit of measurement in "mm" or "inch".
- Horizontal  
Specify the horizontal width between 148 and 216 mm (5.83 and 8.50 inches).
- Vertical  
Specify the vertical length between 210 and 356 mm (8.27 and 14.02 inches).
- Paper Type  
Specify the paper type for tray 1.  
Thin Paper, Plain Paper 1, Plain Paper 2, Recycled Paper, Color Paper, Letterhead, Preprinted Paper, Prepunched Paper

**❖ Tray 2**

- Paper Size  
Specify the paper size for tray 2.  
A4, 8 1/2 x 11
- Paper Type  
Specify the paper type for tray 2.  
Thin Paper, Plain Paper 1, Plain Paper 2, Recycled Paper, Color Paper, Letterhead, Preprinted Paper, Prepunched Paper

**❖ Bypass Tray**

- Paper Size  
Specify the paper size for the bypass tray.  
A4, B5 JIS, A5, B6 JIS, A6, 8 1/2 x 14, 8 1/2 x 11, 5 1/2 x 8 1/2, 7 1/4 x 10 1/2, 8 x 13, 8 1/2 x 13, 8 1/4 x 13, 4 1/8 x 9 1/2, 3 7/8 x 7 1/2, C5 Env, C6 Env, DL Env, 16K, Custom Paper Size, Any Size
- Unit  
Specify the unit of measurement in "mm" or "inch".

- Horizontal  
Specify the horizontal width between 90 and 216 mm (3.54 and 8.50 inches).
- Vertical  
Specify the vertical length between 148 and 900 mm (5.83 and 35.43 inches).
- Paper Type  
Specify the paper type for the bypass tray.  
Thin Paper, Plain Paper 1, Plain Paper 2, Recycled Paper, Color Paper, Letterhead, Preprinted Paper, Prepunched Paper, Labels, Bond Paper, Cardstock, Thick Paper 1, Thick Paper 2, Envelope, Any Type

#### ❖ Paper Tray Priority

The tray selected here is used when no tray is specified for a print job.

#### Note

- Tray 2 is available only when the optional paper feed unit is attached to the printer.
- Only the PCL6 and PostScript 3 printer driver supports custom size paper longer than 356 mm (14.02 inches). The additional memory unit is required when using the PCL6 printer driver. The additional memory unit might also be required when using the PostScript 3 printer driver, depending on the print data.

---

## Printing the printer configurations

---

On the **[Paper]** page, you can print lists of printer information.

#### Important

- To use this function, the printer must be monitored from Web Image Monitor. In the **[List/Test Print]** list, select the item you want to print. You can print the following:

#### ❖ Configuration Page

Prints the current configurations and general information of the printer.

#### ❖ Menu List

Prints the menu list showing all available menus

#### ❖ Test Page

Prints a test page for checking the printing condition. The test page contains network settings and counter information.

#### ❖ PCL Configuration/Font Page

Prints the current configuration and installed PCL font list.

#### ❖ PS Configuration/Font Page

Prints the current configuration and installed PostScript font list.

---

## Making the network related settings

---

You can set configurations about network connection and communication.

### Important

- To make the settings about TCP/IP protocol, set TCP/IP “Active” in Interface.

The following operations are possible on the **[Network]** menu:

- Checking the information about the printer such as Device Name and Active Protocol.
- Interface settings such as setting the timeout and making protocol to active.
- TCP/IP port settings
- Netware settings
- AppleTalk settings
- SNMP settings
- SMTP settings

---

## 6

### Changing the Login Information

---

On the **[Change Login Password]** page, you can change the administrator's login password.

- 1** On the **[Configuration]** page, click **[Change Login Password]**.

The **[Change Login Password]** page appears.

- 2** Enter the new password in the **[New Login Password]** box, and then enter the same password in the **[Confirm Login Password]** box.

- 3** Click **[OK]**.

---

## Displaying Web Image Monitor Help

---

To use Help for the first time, you need to install its source file from the CD-ROM provided with this printer.

 **Note**

- By clicking "?", the Help icon in the header area, the contents of Help appear.
- By clicking "?", the Help icon in the main area, Help for the setting items in the main area appears.

---

## Installing Help

---

**1** Copy the [WIMHELP] folder on the CD-ROM to your computer's hard drive.

The example procedures explain how to copy the [WIMHELP] folder to the C:\tmp\WIMHELP directory.

**2** Log on as an administrator, access Web Image Monitor, and then click [Help Source File Setting] on the [Configuration] page.

**3** In the text box, enter "C:\tmp\WIMHELP\JA".

**4** Click [OK].

## Using Smart Organizing Monitor

Smart Organizing Monitor allows you to make printer settings, such as input tray and network-related settings, from your client computer.

You can also use Smart Organizing Monitor to check printer status.

The following operations are possible with Smart Organizing Monitor:

- Displaying printer status or settings
- Checking locations where errors have occurred and error recovery methods
- Displaying the printer status and supply information
- Printing a list of printer configurations
- Specifying the printer's IP address
- Making settings for paper loaded into each input tray
- Making input tray settings
- Changing the factory-set default settings
- Making system, access code and language settings
- Making network protocol settings
- Making printer settings

### Reference

The Smart Organizing Monitor functions you can use under Windows operating systems are also available under Mac OS. For details, see p.108 “Using Smart Organizing Monitor”.

---

## Installing Smart Organizing Monitor

---

Smart Organizing Monitor is automatically installed along with the printer driver.

### Reference

For details about installing the printer driver, see p.3 “Installing the Printer Driver in a Network Environment” or p.8 “Installing the Printer Driver Using USB”.

---

## Displaying the Smart Organizing Monitor Dialog Box

---

Use the following procedure to display the Smart Organizing Monitor.

### ❖ In the Printing Preferences dialog box

Click [Smart Organizing Monitor...].

### ❖ In the Printer Properties dialog box

On [Accessories], [Advanced Options] or [Paper Size Settings] tab , click [Smart Organizing Monitor...].

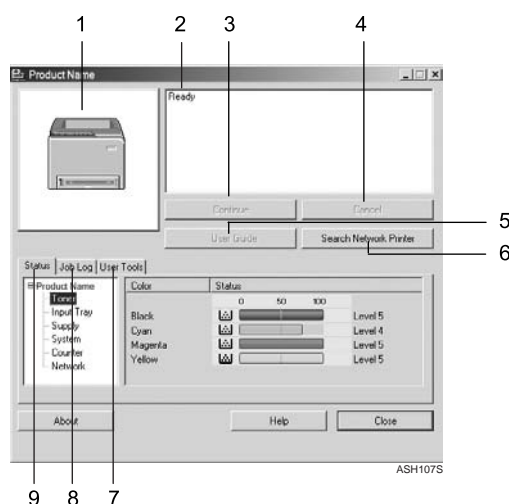
**Note**

- To automatically display the Smart Organizing Monitor dialog box when errors occur, in the printer driver's properties dialog box, on the **[Advanced Options]** tab, select the **[Display Smart Organizing Monitor automatically]** check box.


## Displaying the Printer Status

In the Smart Organizing Monitor dialog box, you can check the status of monitored printers.

The printer status is displayed using graphics and comments.



### 1. Printer graphic

If an input tray error occurs,  appears. This identifies the tray where the error occurred. The problem tray is outlined in red.

### 2. Comments

Displays current printer status and instructions for resolving problems.

### 3. [Continue] button

Click to display the **[Form Feed]** dialog box which you can use to change input tray settings.

### 4. [Cancel] button

Click to cancel a print job.

### 5. [User Guide] button

Click to display error related Help.

### 6. [Search Network Printer] button

Click to select a network printer.

### 7. [User Tools] tab

Prints the test page or configuration page. The **[Printer Configuration]** dialog box can be opened from this tab.

### 8. [Job Log] tab

Displays the information related to print jobs.

### 9. [Status] tab

Display the status of the items such as toner levels and paper level.

**Note**

- [Continue]** and **[Cancel]** button are always disabled for this printer model.

---

## Displaying the Printer Information

---

The lower half of the Smart Organizing Monitor dialog box contains the following three tabs: **[Status]**, **[Job Log]**, and **[User Tools]**. You can use these tabs to display information about a monitored printer, such as its status, job history, and configuration.

---

### Displaying the printer status

---

The left side of the **[Status]** tab shows the printer name and tree. Click an item in the tree to display information relating to it.

#### ❖ **Toner**

Displays the following messages to indicate remaining toner levels for each color of toner: Remaining Level 1 to 5, “Almost Empty” and “Empty”. Graphics also indicate remaining toner levels.

#### ❖ **Input Tray**

You can check the following information about the input trays.

- **Input Tray**  
Displays the installed input trays.
- **Status**  
Displays the input tray status, "Out of Paper" or "Status OK".
- **Paper Size**  
Displays the size of the paper loaded into each input tray.
- **Paper Type**  
Displays the type of the paper loaded into each input tray.

#### ❖ **Supplies**

Displays the name of consumables and uses graphics to indicate their statuses.

#### ❖ **System**

Displays the system information about the printer, such as the model name, system version, and memory size.

#### ❖ **Counter**

Displays information about the counters.

#### ❖ **Network**

Displays network details such as the printer's IP address and network-related comments.

#### **Reference**

For details about each item in the Smart Organizing Monitor dialog box, see Smart Organizing Monitor Help.

You can print information that appears on the **[Status]** tab. For details, see p.77 “Printing the printer configurations”.



---

## Displaying the job history

---

On the **[Job Log]** tab, print jobs are displayed in the list.

You can check the following information:

- User name
- Document name
- The date and time when the print job was requested
- Number of printed pages
- Job status

### **Note**

- Normally, the names used to log on to Windows are displayed in the **[User Name]** column.

---

## Printing the printer configurations

---

On the **[User Tools]** tab, you can print lists of printer information.

### **Important**

- You can print the configuration page only when the printer is not busy processing jobs.
- To print information about the printer, the printer must be monitored from Smart Organizing Monitor via a supported printer driver.

In the **[List/Test Print]** list, select the item you want to print. You can print the following:

#### ❖ **Configuration Page**

Prints the current configurations and general information of the printer.

#### ❖ **Menu List**

Prints the menu list showing all available menus.

#### ❖ **Test Page**

Prints a test page for checking the printing condition. The test page contains network settings and counter information.

#### ❖ **PCL Config./Font Page**

Prints the current configuration and installed PCL font list.

#### ❖ **PS Config./Font Page**

Prints the current configuration and installed PostScript font list.

The procedure for printing the configuration page is described as an example.

- 1** On the **[User Tools]** tab, in the **[List/Test Print]** list, select **[Configuration Page]**.
- 2** Click **[Print]**.
- 3** Click **[Yes]**.

The configuration page is printed.

#### **Reference**

For details about the items displayed on the configuration page, see p.85 “Reading the Configuration Page”.

---

## Printer Configuration

---

You can use the **[Printer Configuration]** dialog box to change the current printer settings. To display the **[Printer Configuration]** dialog box and change printer settings, on the **[User Tools]** tab, click **[Printer Configuration]**.

#### **Important**

- The **[Printer Configuration]** is disabled when the printer is not in the ready state or power save mode.

You can use the **[Printer Configuration]** dialog box to change the settings of:

- printers,
- input trays,
- paper loaded in input trays,
- network protocol, and
- factory-set defaults.

#### **Reference**

For details about each item you can specify on the **[Printer Configuration]** dialog box, see Smart Organizing Monitor Help.

---

### About menu and mode

---

There are two modes you can use to access the **[Printer Configuration]** dialog box: administrator mode and general users mode.

Available tabs in the **[Printer Configuration]** dialog box differ depending on the mode you are in.

#### ❖ **Administrator**

In the **[Access Code]** dialog box, enter an access code.

All tabs in the **[Printer Configuration]** dialog box are available.

#### ❖ **General users**

Only the **[Paper Input]** tab is available.

---

## Changing the paper settings

---

On the **[Paper Input]** tab, you can change paper size and other paper settings.

### ❖ Tray 1

- Paper Size:  
Specify the paper size for tray 1.  
A4 (210 x 297 mm), B5 JIS (182 x 257 mm), A5 (148 x 210 mm), 8 1/2 x 14, 8 1/2 x 11, 7 1/4 x 10 1/2, 8 x 13, 8 1/2 x 13, 8 1/4 x 13, Custom Paper Size
- Paper Type:  
Specify the paper type for tray 1.  
Thin Paper, Plain Paper 1, Plain Paper 2, Recycled Paper, Color Paper, Letterhead, Preprinted Paper, Prepunched Paper
- Custom Paper Size  
Specify the custom paper size, when **[Custom Paper Size]** is selected.
  - Unit:  
Specify the unit of measurement in "mm" or "inch".
  - Horizontal:  
Specify the horizontal width between 148 and 216 mm (5.83 and 8.50 inches).
  - Vertical:  
Specify the vertical length between 210 and 356 mm (8.27 and 14.02 inches).

### ❖ Tray 2

- Paper Size:  
Specify the paper size for tray 2.  
A4 (210 x 297 mm), 8 1/2 x 11
- Paper Type:  
Specify the paper type for tray 2.  
Thin Paper, Plain Paper 1, Plain Paper 2, Recycled Paper, Color Paper, Letterhead, Preprinted Paper, Prepunched Paper

### ❖ Bypass Tray

- Paper Size:  
Specify the paper size for the bypass tray.  
A4 (210 x 297 mm), B5 JIS (182 x 257 mm), A5 (148 x 210 mm), B6 JIS (128 x 182 mm), A6 (105 x 148 mm), 8 1/2 x 14, 8 1/2 x 11, 5 1/2 x 8 1/2, 7 1/4 x 10 1/2, 8 x 13, 8 1/2 x 13, 8 1/4 x 13, 4 1/8 x 9 1/2, 3 7/8 x 7 1/2, C5 Env, C6 Env, DL Env, 16K, Custom Paper Size, Any Size
- Paper Type:  
Specify the paper type for the bypass tray.  
Thin Paper, Plain Paper 1, Plain Paper 2, Recycled Paper, Color Paper, Letterhead, Preprinted Paper, Prepunched Paper, Thick Paper 1, Thick Paper 2, Bond Paper, Cardstock, Labels, Envelope, Any Type

- Custom Paper Size  
Specify the custom paper size, when **[Custom Paper Size]** is selected.
  - Unit:  
Specify the unit of measurement in "mm" or "inch".
  - Horizontal:  
Specify the horizontal width between 90 and 216 mm (3.54 and 8.50 inches).
  - Vertical:  
Specify the vertical length between 148 and 900 mm (5.83 and 35.43 inches).

#### ❖ Tray Priority

The tray selected here is used when no tray is specified for a print job.

#### Note

- Tray 2 is available only when the optional paper feed unit is attached to the printer.
- Only the PCL6 and PostScript 3 printer driver supports custom size paper longer than 356 mm (14.02 inches). The additional memory unit is required when using the PCL6 printer driver. The additional memory unit might also be required when using the PostScript 3 printer driver, depending on the print data.

---

### Adjusting registrations

---

On the **[Maintenance]** tab, you can adjust color registration and print starting positions.

Normally, you do not have to adjust registrations. However, adjustments could be useful in some cases, especially when you want to print in a specific position. Under **[Registration: Tray 2 Paper]**, you can adjust the print image position printed on the sheet fed from tray 2. To check the adjustment result, use **[Print Test Sheet]**.

Also, you can updated the firmware by clicking **[Printer Firmware Update]**.

The latest version of the firmware can be downloaded form the supplier's website.

---

### Setting basic functions

---

On the **[System]** tab, you can set basic functions required to use the printer. The printer can be used on factory-set defaults, but the configuration can be changed depending on the condition of the user. The changed condition holds even if the printer is turned off.

The access code can be changed on this tab.

---

## Making network-related settings

---

On the **[Network 1]**, **[Network 2]** and **[Network 3]** tabs, you can set configurations about network connection and communication.

The following operations are possible on these tabs:

- Checking the machine name, active protocol, and other printer information
- Making interface settings, including the timeout setting and protocol settings
- Checking or making TCP/IP settings
- Checking or making Netware and SMTP settings
- Checking or making SNMP and AppleTalk settings

---

## Settings conditions for printing

---

On the **[Printer]** tab, you can set conditions for printing.

In the **[PCL]** area, you can specify the conditions such as Orientation and font settings.

In the **[PS]** area, you can specify Resolution and Color Profile.

## Printer Status Notification by E-Mail

Whenever a toner cartridge becomes empty or paper is jammed, an e-mail alert is issued to the registered addresses to notify the printer status.

### Important

- This function is available only if you are using this printer in a network environment.
- Depending on your e-mail application, a phishing warning might appear after you receive an e-mail message. To prevent phishing warnings appearing after you receive e-mail from a specified sender, you must add the sender to your e-mail application's exclusion list. For details about how to do this, refer to your e-mail application's Help.

For this notification, you can make the e-mail notification settings.

You can be notified of the following events:

- Service call
- Toner cartridge is empty
- Toner cartridge is nearly empty
- Waste toner bottle is full
- Waste toner bottle is nearly full
- Paper has jammed
- Open door is detected
- Paper tray is empty

Also you can see the information of the printer, such as Machine name, serial number and total counter.

**1** Open a Web browser, and then enter “[http://\(printer's address\)/](http://(printer's address)/)” in the address bar.

Top Page of Web Image Monitor appears.

**2** Click [Login].

The window for entering the login user name and password appears.

**3** Enter the user name and password, and then click [OK].

For details about the login user name and password, consult your network administrator.

**4** In the menu area, click [Configuration].

**5** Click [Network].

The [Network] page appears.

**6** Set [Auto E-mail Notification] to [On].

**7** Make the necessary settings:

- Items in the SNMP Setting column: Configure the SMTP server. Check your mailing environment, and then specify the necessary items. You can also perform mail authentication for the SMTP server.

**8** Click [OK]. **Note**

- You can set [Auto E-mail Notification:] to [On] using Smart Organizing Monitor.

---

## Mail Authentication

---

You can configure mail authentication to prevent illegal use of the mail server. When mail is sent to the SMTP server, authentication is performed using the SMTP AUTH protocol by prompting the mail originator to enter the user name and password.

Use the following procedure to specify SMTP authentication.

**1** In the menu area, click [Configuration].**2** Click [Network] in the [Configuration] page.**3** Make the following settings:

- SMTP Authentication: Enable or disable SMTP authentication.
- E-mail Address: Enter the e-mail address.
- SMTP User Name: Enter the user name for SMTP Authentication.
- SMTP Password: Enter the password set for the SMTP User Name.

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

## SNMP

You can use the SNMP manager to obtain information about the printer.

The SNMP agent operating on UDP and IPX is built into the Ethernet board that is installed in this printer.

### Important

❑ If you change the printer's community name, use Web Image Monitor or Smart Organizing Monitor to change the computer's settings accordingly.

The default community name is **[private]**. You can use these community names to obtain MIB information.



# Reading the Configuration Page

The configuration page contains the information shown below.

## ❖ System Reference

Displays the following information about the printer.

- Printer ID
- Total Memory
- Firmware Version
- Printer Language
- Option installation status
- Toner Remaining
- Supply Information

## ❖ Paper Input

Displays the paper size and type settings.

- Tray Priority
- Bypass Tray
- Tray 1
- Tray 2

## ❖ Maintenance

- Registration
- Horiz.:Tray 2
- Vert.:Tray 2

## ❖ System

Displays the settings made under **[System]** menu.

- Auto Continue
- Copies
- Sub Paper Size
- Duplex
- Blank Pages
- Energy Saver Mode 1
- E. Saver On/Off
- E. Saver Timer
- B&W Page Detect
- Print Error Page
- Notify by E-mail

❖ **Host Interface**

- USB TimeOut
- Network TimeOut
- DHCP
- IP Address
- Subnet Mask
- Gateway Address
- Frame Type (NW)
- TCP/IP
- Netware
- AppleTalk
- Ethernet
- USB Setting

❖ **PCL Menu**

Displays settings made under **[PCL Menu]**.

- Orientation
- Form Lines
- Font Number
- Point Size
- Font Pitch
- Symbol Set
- Courier Font
- Ext. A4 Width
- Append CR to LF
- Resolution

❖ **PS Menu**

Displays settings made under **[PS Menu]**.

- Resolution
- Color Profile

❖ **Interface Information**

Displays the network related settings.

- MAC Address
- Host Name
- Operation Mode
- Print Server Name
- File Server Name
- NDS Context Name

**❖ Counter List**

- Total Counter
- B&W Counter
- Color Counter
- Duplex Counter

**❖ Error Log**

Displays the error logs.

** Note**

- Configuration page can be printed using the control panel. For details, see p.48 “Printing the Configuration Page”.
- The printed items and the contents might be different according to machine model.

** Reference**

For details about printing printer configuration using Web Image Monitor, see p.71 “Printing the printer configurations”.

For details about printing printer configuration using Smart Organizing Monitor, see p.77 “Printing the printer configurations”.



# 7. Using a Print Server

## Preparing Print Server

This section explains how to configure this printer as a Windows network printer. The printer is configured to enabling network clients to use it.

### Important

- To change the printer properties in the **[Printer]** folder, you need Printer Management access authentication. Log on to the file server as an Administrators or member of the PowerUsers group.

### **1** Open the **[Printers]** window from the **[Start]** menu.

The **[Printers]** window appears.

Under Windows XP or Windows Server 2003/2003 R2, the **[Printers and Faxes]** window appears.

### **2** Click the icon of this printer. On the **[File]** menu, click **[Properties]**.

The printer properties appears.

### **3** On the **[Sharing]** tab, click **[Shared as:]**.

### **4** To share this printer with users using a different version of Windows, click **[Additional Drivers...]**.

If you have installed an alternative driver by selecting **[Shared as:]** during the printer driver installation, this step can be ignored.

### **5** Click **[OK]**, and then close the printer properties.



# 8. Special Operations under Windows

## Printing Files Directly from Windows

You can print files directly using Windows commands; "lpr" or "ftp".

---

### Setup

---

Use the following procedure to make network environment settings.

**1** Enable TCP/IP using the control panel, and then set up the printer's network environment about TCP/IP including IP addresses.

TCP/IP of the printer is set as default.

**2** Install a TCP/IP in Windows to set up the network environment.

Consult the network administrator for the local setting information.

**3** To print, install "Printing service for UNIX" as the network application.

#### Reference

For details about setting up IPv4 address, see Hardware Guide.

For details about setting the IPv4 address of the printer using DHCP, see p.116 "Using DHCP".

This completes the setup for specifying a printer using an IPv4 address when printing. When using a host name to specify a printer, proceed to p.92 "Using a Host Name Instead of an IPv4 Address" and continue the setup.

---

## Using a Host Name Instead of an IPv4 Address

---

When a host name is defined, you can specify a printer by host name instead of IPv4 address. The host names vary depending on the network environment.

---

### When using DNS

---

Use the host name set to the data file on the DNS server.

---

### When setting the IPv4 address of a printer using DHCP

---

Use the printer name on the configuration page as the host name.

### Reference

For details about printing a configuration page, see p.77 “Printing the printer configurations”.

---

### In other cases

---

Add the IPv4 address and host name of the network printer to the hosts file on the computer used for printing.

#### **1** Open the hosts file using memo pad files, for instance.

The hosts file is in the following folder:

`\WINNT\SYSTEM32\DRIVERS\ETC\HOSTS`

#### **2** Add an IPv4 address and host name to the hosts file using the following format:

`192.168.15.16 host# NP`

“192.168.15.16” is the IPv4 address, “host” is this printer's host name, and “#NP” is replaced by comments. Insert a space or tab between “192.168.15.16” and “host”, between “host” and “#NP” respectively, using one line for this format.

#### **3** Save the file.



---

## Printing Commands

---

The following explains printing operations using the lpr commands.

Enter commands using the command prompt window. The location of the command prompt varies depending on operating systems:

- Windows 2000  
**[Start] - [Programs] - [Accessories] - [Command Prompt]**
- Windows XP/Vista, Windows Server 2003/2003 R2/2008  
**[Start] - [All Programs] - [Accessories] - [Command Prompt]**

### Note

- Match the data format of the file to be printed with the emulation mode of this printer.
- If the message “print requests full” appears, no print jobs can be accepted. Try again when sessions end. For each command, the amount of possible sessions is indicated as follows:
  - lpr: 10
- Enter the file name in a format including the path from the directory executing commands.

### Reference

The “option” specified in a command is an intrinsic printer option and its syntax is similar to printing from UNIX.

---

## lpr

---

### ❖ When specifying a printer by IP address

```
c:> lpr -Sprinter's IP address -Pprinter name [-ol] \path\file name
```

### ❖ When specifying a printer by host name instead of IP address

```
c:> lpr -Sprinter host name -Pprinter's name [-ol] \path\file name
```

To print a binary file, include the “-ol” switch (a dash followed by a lowercase O and L) after the printer name.

---

## ftp

---

Use the “put” or “mput” command according to the number of files to be printed.

### ❖ When one file is printed

```
ftp> put \path\file name [option]
```

### ❖ When multiple files are printed

```
ftp> mput \path\file name [\path\file name...] [option]
```

- 1** Formulate the printer's IP address or the host name of the hosts file printer as an argument and use the "ftp" command.

```
% ftp printer's IP address
```

- 2** Enter the user name and password, and then press the [OK] key.

For details about the user name and password, consult your network administrator.

**User:**

**Password:**

- 3** When printing a binary file, set the file mode to binary.

```
ftp> bin
```

When printing a binary file in ASCII mode, print may not come out correctly.

- 4** Specify files to be printed.

The following shows the examples of printing a PostScript file named "file 1" in the "C:\PRINT" directory and printing file 1 and file 2.

```
ftp> put C:\PRINT\file1 filetype=RPS
```

```
ftp> mput C:\PRINT\file1 C:\PRINT\file2
```

- 5** Quit ftp.

```
ftp> bye
```

 **Note**

- "=", ";", "\_", and ":" cannot be used for file names. File names will be read as option strings.
- For "mput" command, option can not be defined.
- For "mput" command, "\*" and "?" can be used as wild cards in file names.
- When printing a binary file in ASCII mode, print may not come out correctly.

# 9. Mac OS Configuration

This chapter explains how to use this printer under Mac OS X.

The example procedures in this chapter explain configuration under Mac OS X 10.4 and Mac OS X 10.5. The procedure might be different according to the version of OS.

## Installing the PostScript 3 Printer Driver

### Important

- If you want to use this printer in a Mac OS environment, update to Mac OS 10.2.8 or higher.

- 1** Insert the CD-ROM into the CD-ROM drive.
- 2** Double-click the CD-ROM icon.
- 3** Double-click the [Mac OS X] folder.
- 4** Double-click the [PPD Installer] folder.
- 5** Double-click the package file icon.
- 6** Follow the instructions on the screen.

### Note

- When installing the printer driver under Mac OS X, Smart Organizing Monitor is automatically installed along with it. For details about Smart Organizing Monitor for Mac OS X, see p.108 “Using Smart Organizing Monitor”.

## Specifying the Printer

This section explains how to make your computer recognize this printer.

---

### Using USB

---

Use this procedure to connect the computer to the printer via USB.

The printer is automatically added, if the connection is successfully detected.

---

#### Mac OS X 10.4.x or earlier

---

- 1** Connect the printer and computer using the USB cable, and then turn the printer's power switch to on.
- 2** On the desktop, double-click the hard drive icon.
- 3** Double-click [Applications], and then open the [Utilities] folder.
- 4** Double-click [Printer Setup Utility].  
The [Printer List] dialog box appears.
- 5** Check that the name of this printer appears in [Printer List].
- 6** Go to [Printer Setup Utility] in the menu bar, and then click [Quit Printer Setup Utility].

---

#### Mac OS X 10.5

---

- 1** Connect the printer and computer using the USB cable, and then turn on the printer's power switch.
- 2** On the desktop, double-click the hard drive icon.
- 3** Double-click [Applications], and then double-click [System Preferences].
- 4** In the [Hardware] category, double-click [Print & Fax].
- 5** Check that the name of this printer appears in the printer list in [Print & Fax].
- 6** Go to [Printer Setup Utility] in the menu bar, and then click [Quit System Preferences].

---

## Using TCP/IP

---

Use this procedure to connect the computer to the printer via Ethernet. The printer is automatically added, if the connection is successfully detected.

---

### Mac OS X 10.4.x or earlier

---

- 1** Connect the printer and the computer using the Ethernet cable.
- 2** On the desktop, double-click the hard drive icon.
- 3** Double-click [Applications], and then open the [Utilities] folder.
- 4** Double-click [Printer Center] or [Printer Setup Utility].  
The [Printer List] dialog box appears.
- 5** Click [Add] in the [Printer List] dialog box.  
If you are using Mac OS X 10.2.x or Mac OS X 10.3.x, press and hold the [alt/option] key, and then click [Add]. Proceed to step 9.  
If you want to add a new printer, click [Add] as a confirmation window for printer addition appears.
- 6** If this printer is in the same segment as the Macintosh with which you are configuring, the printer is detected automatically and displayed on the default browser list. If the printer is not displayed, proceed to step 8.
- 7** From the [Printer Browser] list, select the printer with the corresponding IP address under [Printer Name] and with [Connection] listed as [(Printer name) Network]. Click [Add] after checking that the name of this printer appears in [Name:]. Proceed to step 14.
- 8** Press and hold the [alt/option] key, and then click [More Printers].
- 9** From the protocol drop-down menu, select [Advanced].
- 10** When the [Advanced] window appears, select [(Printer name) Network Printer] from the [Device:] drop-down menu.
- 11** Enter a name that you like in [Device Name:].
- 12** Enter the IP address of the printer in [Device URI:] after "(Printer name)Network://".
- 13** Select the manufacturer name from the [Printer Model:] drop-down menu. From the list displayed, select the name of this printer, and then click [Add].
- 14** Check that the name of this printer appears on the printer list in [Printer List].  
If you are using Mac OS X 10.2.x or Mac OS X 10.3.x, select this printer from the printer list, and then click [Add].
- 15** Go to [Printer Setup Utility] in the menu bar, and then click [Quit Printer Setup Utility].

---

**Mac OS X 10.5**

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- 1** Connect the printer and computer using the Ethernet cable, and then turn on the printer's power switch.
- 2** On the desktop, double-click the hard drive icon.
- 3** Double-click [Applications], and then double-click the [System Preferences].
- 4** In the [Hardware] category, double-click [Print & Fax].
- 5** Click the [+] button on the bottom-left corner of the [Print & Fax] dialog box to display the default window.
- 6** If this printer is in the same segment as the Macintosh with which you are configuring, the printer is detected automatically and displayed in the default browser list. If the printer does not appear, proceed to step 8.
- 7** From the list, select the printer with [Kind] listed as [(Printer name) Network] and the corresponding IP address under [Printer Name]. Click [Add] after checking that the name of this printer appears in [Name:]. Proceed to step 19.
- 8** If [Advanced] appears in the toolbar, click [Advanced], and then proceed to step 14. If [Advanced] does not appear, proceed to the next step.
- 9** Press and hold the [Control] key, and then click [More Printers].
- 10** From the list, select [Customize Toolbar...].
- 11** From the custom setup window, select the [Advanced] icon, and then drag it to the toolbar.
- 12** Check that the [Advanced] icon appears in the toolbar, and then click [Done].
- 13** Click [Advanced].
- 14** When the detailed window appears, select [(Printer name) Network Printer] from the [Type:] list.
- 15** Enter the IP address of the printer in [URL:] after "(Printer name)Network://". Make no change to the parameter under [Device:] and leave it as [Another Device].
- 16** From the [Print Using:] list, select [Select a driver to use...].
- 17** Enter the name of this printer in the search window.
- 18** After entering the name, select the name of this printer from the list, and then click [Add].
- 19** Check that the name of this printer appears on the printer list in [Print & FAX].
- 20** Go to [System Preferences] in the menu bar, and then click [Quit System Preferences].

---

# Setting Up the PPD File

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## Mac OS X 10.4.x or earlier

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- 1** On the desktop, double-click the hard drive icon.
- 2** Double-click [Applications], and then open the [Utilities] folder.
- 3** Double-click [Printer Setup Utility].  
The [Printer List] dialog box appears.
- 4** Click [Add].
  - Mac OS X 10.4 or higher  
Click [More Printers...]. Then select the zone from the second pop-up menu.
  - Other Mac OS X  
Click [AppleTalk] on the first pop-up menu.  
If the zone is set, select the zone from the second pop-up menu.
- 5** Select the printer, and then select its manufacturer from the [Printer Model:] pop-up menu.  
Under Mac OS X 10.4 or higher, manufacturer from the [Print Using] pop-up menu.  
A list of printer types appears.
- 6** Select the PPD file for the model you are using, and then click [Add].
- 7** Quit Printer Setup Utility.

---

## Mac OS X 10.5

---

- 1** On the desktop, double-click the hard drive icon.
- 2** Double-click [Applications], and then open the [System Preferences] folder.
- 3** In the [Hardware] category, double-click [Print & Fax].
- 4** In the list, double-click the name of the printer you are using, and then click [Info].
- 5** Click [Driver] tab.
- 6** In the [Print Using:] drop-down menu, select [Other...].
- 7** Select the PPD file for the model you are using, and then click [Open].
- 8** Close the [Print & Fax] window.

## Setting Up Options

Use this procedure to configure the printer's options.

---

### Mac OS X 10.4.x or earlier

---

- 1** On the desktop, double-click the hard drive icon.
- 2** Double-click [Applications], and then open the [Utilities] folder.
- 3** Double-click [Printer Setup Utility].  
The [Printer List] dialog box appears.
- 4** Select the machine you are using, and then click [Show Info].  
The [Printer Info] window appears.
- 5** In the drop-down menu, select [Installable Options], and then specify an appropriate setting for it.
- 6** Click [Apply Changes].
- 7** Quit Printer Setup Utility.

 **Note**

- If the option you want to select is not displayed, PPD files may not be set up correctly. To complete the setup, check the name of the PPD file displayed in the dialog box.

---

### Mac OS X 10.5

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- 1** On the desktop, double-click the hard drive icon.
- 2** Double-click [Applications], and then open the [System Preferences] folder.
- 3** In the [Hardware] category, double-click [Print & Fax].
- 4** In the list, double-click the name of printer you are using, and then click [Options & Supplies...].
- 5** Click the [Driver] tab, and then specify an appropriate setting for it.
- 6** Click [OK].
- 7** Go to [System Preferences] in the menu bar, and then click [Quit System Preferences].



---

# Setting Up for Printing

Use the following procedures to configure the printer.

---

## Making paper settings from an application

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- 1** Open the file you want to print.
- 2** On the [File] menu, click [Page Setup...].
- 3** Check that the printer you want to use is displayed in [Format for], and then select the paper size you want to use in [Paper Size].  
If this printer is not displayed in [Format for], select the printer you want to use.
- 4** Configure the settings, and then click [OK].

### Reference

The [Page Setup...] dialog box varies depending on the application you use. For details, see the manuals provided with the Mac OS X.

---

## Printing from an application

---

- 1** Open the file you want to print.
- 2** On the [File] menu, click [Print] or [Print...].
- 3** In the [Printer List], select the printer.
- 4** Configure the print settings, and then click [Print].

# Canceling a Print Job from the Computer

---

## Mac OS X 10.4.x or earlier

---

- 1** On the desktop, double-click the hard drive icon.
- 2** Double-click [Applications], and then open the [Utilities] folder.
- 3** Double-click [Printer Setup Utility].  
The [Printer List] dialog box appears.
- 4** Double-click the name of this printer.
- 5** Select the name of the job you want to cancel, and then click the Delete icon.

 **Note**

- If the printer is shared by multiple computers, be careful not to cancel a print job of other user.
- You cannot stop printing data that has already been processed. For this reason, printing may continue for a few pages after you cancel printing.
- To stop a large data size print job may takes a while.

---

## Mac OS X 10.5

---

- 1** On the desktop, double-click the hard drive icon.
- 2** Double-click [Applications], and then open the [System Preferences] folder.
- 3** In the [Hardware] category, double-click [Print & Fax].
- 4** Double-click the name of this printer.
- 5** Select the name of the job you want to cancel, and then click the Delete icon.

# Changing to EtherTalk

Use the following procedure to configure a Mac OS X to use EtherTalk.

## Important

- You need an administrator name and a password (phrase). For details, consult your network administrator.

---

## Mac OS X 10.4.x or earlier

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- 1** Open [System Preference], and then click the Network icon.
- 2** Click [Built-in Ethernet] in the [Show:] list box.
- 3** Click the [AppleTalk] tab.
- 4** Select the [Make AppleTalk Active] check box.
- 5** To change AppleTalk zones, select a name from the [AppleTalk Zone:] pop-up menu.
- 6** When the settings are made, click [Apply Now].
- 7** Quit [System Preference].

### Reference

For information about installing applications required for EtherTalk, see the Mac OS X manuals.

---

## Mac OS X 10.5

---

- 1** On the desktop, double-click the hard drive icon.
- 2** Double-click [Applications], and then open the [System Preferences] folder.
- 3** In the [Internet & Network] category, double-click the Network icon.
- 4** Click [Built-in Ethernet], and then click [Advanced].
- 5** Click the [Apple Talk] tab.
- 6** Select the [Make Apple Talk Active] check box.
- 7** To change Apple Talk zones, select a name from the [Apple Talk Zone:] drop-down menu.
- 8** When you have specified the settings you require, click [OK].
- 9** Click [Apply].
- 10** Close the [Network] window.

# Configuring the Printer

Use the control panel to enable AppleTalk. (AppleTalk is active by default.)

# Using PostScript 3

Use the PostScript 3 driver to print files.

You can use the following functions if **[Printer Features]** is selected in the **[Print]** dialog:

## ❖ Paper Type

Use this function to select the paper type.

In the **[Feature Sets]** list, select **[Paper Type]**, and then, in the **[Media Type]** list, select the paper type you want to use for printing.

## ❖ Duplex

Use this function to print on both sides of sheets. In the drop-down menu, select **[Layout]**, and then specify the binding pattern in the **[Two-sided]** area. Both short edge and long edge binding is possible with this function.

## ❖ Print Quality

Use this function to select the print quality.

In the **[Feature Sets]** list, select **[Imaging]**, and then, in the **[Print Quality]** list, select the print quality.

You can select Standard, High Quality, or Best Quality.

## ❖ Color Profile

Use this function to select the color profile pattern.

In the **[Feature Sets]** list, select **[Imaging]**, and then, in the **[Color Profile]** list, select the color profile pattern.

You can select Off, Solid Color, Presentation, or Photographic.

## ❖ CMYK Simulation Profile

Use this function to simulate the color tone of the printing ink.

In the **[Feature Sets]** list, select **[Imaging]**, and then, in the **[CMYK Simulation Profile]** list, select the printing ink standard.

You can select the printing ink standard from Off, US OffsetPrint, Euroscale, or PaletteColor.

## ❖ Black Text Over Print

Use this function to specify whether or not to print black over other colors.

To enable black text over print, in the **[Feature Sets]** list, select **[Imaging]**. Then, set **[Black Over Print]** to **[On]**.

## ❖ Dithering

Use this function to specify the rendering mode.

In the **[Feature Sets]** list, select **[Dithering]**, and then, in the **[Dithering]** list, select the rendering mode.

You can select Automatic, Photographic, or Text.

**❖ Color / Black and White**

Use this function to specify whether the document is printed in color or black and white.

In the **[Feature Sets]** list, select **[Toner]**, and then, in the **[Color/ Black and White]** list, select the toner color.

You can select Automatic, Color, or Black and White.

**❖ Gray Reproduction**

Use this function to select the black color mode for text and line art.

In the **[Feature Sets]** list, select **[Toner]**, and then, in the **[Gray Reproduction]** list, select the black color mode.

You can select Black by K or CMY+K.

**❖ Toner Saving**

Use this function to reduce the amount of toner used when printing.

To reduce toner consumption, in the **[Feature Sets]** list, select **[Toner]**. Then set **[Toner Saving]** to **[On]**.

**❖ Print Blank Pages**

Use this function to print blank pages.

To print blank pages, in the **[Feature Sets]** list, select **[Toner]**. Then set **[Print Blank Pages]** to **[On]**.

**❖ Watermark Type**

Use this function to select the watermark style.

In the **[Feature Sets]** list, select **[Watermark Text]**, and then select the watermark type in the list.

You can select Outlined, Solid, or Transparent Text.

**❖ Watermark Text**

Use this function to select the watermark text.

In the **[Feature Sets]** list, select **[Watermark Text]**, and then select the watermark text in the list.

You can select the following text:

- CONFIDENTIAL
- TOP SECRET
- COPY
- DRAFT
- FINAL
- FILE COPY
- PROOF

**❖ Watermark Font Size (Points)**

Use this function to select the watermark font size.

In the **[Feature Sets]** list, select **[Watermark Text]**, and then, select the watermark font size in the list.

**❖ Watermark Font Typeface**

Use this function to select the watermark font typeface.

In the **[Feature Sets]** list, select **[Watermark Text]**, and then, select the watermark typeface.

**❖ Watermark Font Shading**

Use this function to select the watermark font shading.

In the **[Feature Sets]** list, select **[Watermark Text]**, and then, select the watermark font shading in the list.

**❖ Watermark Position**

Use this function to select the watermark position.

In the **[Feature Sets]** list, select **[Watermark Location]**. Then, in the **[Watermark Position (Horizontal)]** and **[Watermark Position (Vertical)]** lists, select the horizontal and vertical positions, respectively.

**❖ Watermark Angle**

Use this function to select the watermark angle.

In the **[Feature Sets]** list, select **[Watermark Location]**, and then, select the watermark angle in the list.

**❖ Watermark**

Use this function to select which page(s) to print the watermark on.

In the **[Feature Sets]** list, select **[Watermark Location]**, and then, in the **[Watermark]** list, select which page(s) you want to print the watermark on.

You can select Off, First Page Only, or All Pages.

## Using Smart Organizing Monitor

This section explains about using Smart Organizing Monitor under Mac OS X. Using Smart Organizing Monitor, you can check the printer status and change printer settings from your client computer.

The following operations are possible with Smart Organizing Monitor:

- Displaying printer status or settings
- Printing a list of printer configurations
- Making settings for paper loaded into each input tray
- Making input tray settings
- Changing factory-set default settings
- Making network protocol settings
- Making printer settings
- Displaying the printer status and supply information
- Netware Settings
- SMTP Settings
- SNMP Settings
- AppleTalk Settings

---

### Installing Smart Organizing Monitor

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Smart Organizing Monitor is automatically installed along with the printer driver.

#### Reference

For details about installing the printer driver, see p.95 “Installing the Post-Script 3 Printer Driver”.

---

### Displaying the Smart Organizing Monitor Dialog Box

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To display the Smart Organizing Monitor dialog box, open the **[Applications]** folder and double-click **[Smart Organizing Monitor]**.

❖ **Alternatively, you can use the following procedure to display the Smart Organizing Monitor dialog box from the [Print & Fax] folder in [System Preferences]:**

- ① In **[System Preferences]**, open the **[Print & Fax]** folder.
- ② Click the **[Print]** tab, and then, in the **[Printer]** list, double-click the name of the printer you are using.
- ③ Click **[Utility]**.



---

## Displaying the Printer Status

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In the Smart Organizing Monitor dialog box, you can check the status of monitored printers. The printer status is displayed using graphics and comments.

---

## Displaying the Printer Information

---

Smart Organizing Monitor features three tabs, **[Status]**, **[Job Log]** and **[User Tools]**. On these tabs, you can view information about a monitored printer, such as its configuration details and current status.

---

### Displaying the printer status

---

When you click the **[Status]** tab, the printer name and tree appear. Click an item in the tree to display information relating to it.

#### ❖ Toner

Displays the remaining amount of each toner. The following are used to indicate the remaining amount: Level 1 to 5, “Almost Empty” and “Empty”. A graphic also indicates each toner’s status.

#### ❖ Input Tray

You can check the following information about the input trays.

- Input Tray  
Displays the installed input trays.
- Status  
Displays the input tray status using a graphic.
- Paper Size  
Displays the size of the paper loaded into each input tray.
- Paper Type  
Displays the type of the paper loaded into each input tray.

#### ❖ Supplies

Displays the consumable names and status. The graphics also indicate the consumables status.

#### ❖ System

Displays the system information about the printer, such as the model name, system version, and memory size.

#### ❖ Counter

Displays information about the counters.

#### ❖ Network

Displays network details such as the printer's IP address and network-related comments.

#### 🔍 Reference

For details about what you can perform on each tab in the Smart Organizing Monitor dialog box, see Smart Organizing Monitor Help.

---

## Displaying the job history

---

On the **[Job Log]** tab, completed print jobs are displayed in the list.

You can check the following information.

- User Name
- Document Name
- Number of printed pages
- The date and time when the print job was requested
- Job Status

---

## Printing the printer configurations

---

On the **[User Tools]** tab, you can print lists of printer information.

### Important

- You can print the configuration page only when the printer is not busy processing jobs.
- To use this function, the printer must be monitored from Smart Organizing Monitor via a supported printer driver.

In the **[List/Test Print]** list, select the item you want to print. You can print the following:

### ❖ Configuration Page

Prints the current configurations and general information of the printer.

### ❖ Menu List

Prints the menu list showing all available menus.

### ❖ Test Page

Prints a test page for checking the printing condition. The test page contains network settings and counter information.

### ❖ PCL Config./Font Page

Prints the current configuration and installed PCL font list.

### ❖ PS Config./Font Page

Prints the current configuration and installed PostScript font list.

Use the printed configuration page to check the information, such as general information and printer configuration.

The procedure for printing the configuration page is described as an example.

**1** On the **[User Tools]** tab, in the **[List/Test Print]** list, select **[Configuration Page]**.

**2** Click **[Print]**.

The configuration page is printed.

---

## Printer Configuration

---

Clicking **[Printer Configuration]** on the **[User Tools]** tab enables you to change the printer settings in the **[Printer Configuration]** dialog box.

You can use the **[Printer Configuration]** dialog box to change the settings of:

- printers,
- input trays,
- paper loaded in input trays,
- network protocols, and
- factory-set defaults.

### Reference

For details about each item you can specify on the **[Printer Configuration]** dialog box, see Smart Organizing Monitor Help.

---

### About menu and mode

---

There are two modes you can use to access the **[Printer Configuration]** dialog box: for administrator mode and general users mode.

Available tabs in the **[Printer Configuration]** dialog box differ depending on the mode you are in.

#### ❖ Administrator

In the **[Access Code]** dialog box, enter an access code.

All tabs in the **[Printer Configuration]** dialog box are available.

#### ❖ General users

Only the **[Paper Input]** tab is available.

---

## Changing the paper settings

---

On the **[Paper Input]** tab, you can change paper size and other paper settings.

### ❖ Tray 1

- Paper Size  
Specify the paper size for tray 1.  
A4 (210 x 297 mm), B5 JIS (182 x 257 mm), A5 (148 x 210 mm), 8 1/2 x 14, 8 1/2 x 11, 7 1/4 x 10 1/2, 8 x 13, 8 1/2 x 13, 8 1/4 x 13, Custom Paper Size
- Paper Type  
Specify the paper type for tray 1.  
Thin Paper, Plain Paper 1, Plain Paper 2, Recycled Paper, Color Paper, Letterhead, Preprinted Paper, Prepunched Paper
- Custom Paper Size  
Specify the custom paper size, when **[Custom Paper Size]** is selected.
  - Unit:  
Specify the unit of measurement in "mm" or "inch".
  - Horizontal:  
Specify the horizontal width between 148 and 216 mm (5.83 and 8.50 inches).
  - Vertical:  
Specify the vertical length between 210 and 356 mm (8.27 and 14.02 inches).

### ❖ Tray 2

- Paper Size  
Specify the paper size for tray 2.  
A4 (210 x 297 mm), 8 1/2 x 11
- Paper Type  
Specify the paper type for tray 2.  
Thin Paper, Plain Paper 1, Plain Paper 2, Recycled Paper, Color Paper, Letterhead, Preprinted Paper, Prepunched Paper

## ❖ Bypass Tray

- Paper Size  
Specify the paper size for the bypass tray.  
A4 (210 x 297 mm), 8 1/2 x 11, B5 JIS (182 x 257 mm), A5 (148 x 210 mm), B6 JIS (128 x 182 mm), A6 (105 x 148 mm), 8 1/2 x 14, 5 1/2 x 8 1/2, 7 1/4 x 10 1/2, 8 x 13, 8 1/2 x 13, 8 1/4 x 13, 4 1/8 x 9 1/2, 3 7/8 x 7 1/2, C5 Env, C6 Env, DL Env, 16K, Custom Paper Size, Any Size
- Paper Type  
Specify the paper type for the bypass tray.  
Thin Paper, Plain Paper 1, Plain Paper 2, Recycled Paper, Color Paper, Letterhead, Preprinted Paper, Prepunched Paper, Thick Paper 1, Thick Paper 2, Labels, Bond Paper, Cardstock, Envelope, Any Type
- Custom Paper Size  
Specify the custom paper size, when **[Custom Paper Size]** is selected.
  - Unit:  
Specify the unit of measurement in "mm" or "inch".
  - Horizontal:  
Specify the horizontal width between 90 and 216 mm (3.54 and 8.50 inches).
  - Vertical:  
Specify the vertical length between 148 and 900 mm (5.83 and 35.43 inches).

### Note

- Tray 2 is available only when the optional paper feed unit is attached to the printer.
- Only the PCL6 and PostScript 3 printer driver supports custom size paper longer than 356 mm (14.02 inches). The additional memory unit is required when using the PCL6 printer driver. The additional memory unit might also be required when using the PostScript 3 printer driver, depending on the print data.

---

## Adjusting registration

---

On the **[Maintenance]** tab, you can adjust color registration and print starting positions.

Normally, you do not have to adjust registration. However, adjustment can be useful in some cases, especially if you want to print in a specific position. Under **[Registration: Tray 2 Paper]**, you can adjust the print image position printed on the sheet fed from tray 2. To check the adjustment result, use **[Print Test Sheet]**.

Also, you can update the firmware by clicking **[Printer Firmware Update]**.

The latest version of the firmware can be downloaded from the supplier's website.

---

## Setting basic functions

---

On the **[System]** tab, you can set basic functions required to use the printer. The printer can be used on factory-set defaults, but the configuration can be changed depending on the condition of the user. The changed condition holds even if the printer is turned off.

The access code can be changed on this tab.

---

## Making network-related settings

---

On the **[Network 1]**, **[Network 2]** and **[Network 3]** tabs, you can set configurations about network connection and communication.

The following operations are possible on these tabs:

- Checking the device name, active protocol, and other printer information
  - Making interface settings, including the timeout setting and protocol settings
  - Checking or making TCP/IP settings
  - Checking or making Netware and SMTP settings
  - Checking or making SNMP and AppleTalk settings
- 

## Settings conditions for printing

---

On the **[Printer]** tab, you can set conditions for printing.

In the **[PCL]** area, you can specify the conditions such as Orientation and font settings.

In the **[PS]** area, you can specify Resolution and Color Profile.

---

## Software and Utilities Included on the CD-ROM

The following software and utility are included in the CD-ROMs that come with this printer.

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### Viewing the contents of the CD-ROM

---

Use the following procedure to view the contents of the CD-ROM.

**1** Insert the CD-ROM into the CD-ROM drive.

The installer starts.

**2** Click **[Browse This CD-ROM]**.

Explorer starts and displays the contents of the CD-ROM.

---

### Printer Drivers for this Printer

---

Printing requires installing a printer driver appropriate to your operating system. The following driver is included on the CD-ROM provided with this printer.

❖ **PCL 5c/ 6 printer driver**

This printer driver allows the computer to communicate with the printer via a printer language.

The following operating system is supported.

- Windows 2000/XP/Vista and Windows Server 2003/2003 R2/2008

❖ **PostScript 3 Printer Drivers and PPD files**

PostScript 3 printer driver and the PPD files are included on the CD-ROM provided with this printer. PostScript 3 printer driver allow the computer to communicate with the printer using a printer language. PPD files allow the printer driver to enable specific printer functions.

The following operating system is supported.

- Windows 2000/XP/Vista, Windows Server 2003/2003 R2/2008, and Mac OS X 10.2.8 (or later)

 **Note**

- The PostScript 3 printer driver and PPD files are included on the CD-ROM.

❖ **PPD files**

PPD files are included on the CD-ROM provided with this printer. PPD files allow the printer driver to enable specific printer functions.

# Cautions to Take When Using in a Network

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## Using DHCP

---

You can use this printer in a DHCP environment.

- Supported DHCP servers are those which are included with Windows 2000 Server, and Windows Server 2003/2003 R2/2008.
  - DHCP relay-agent is not supported. If you use DHCP relay-agent on a network via ISDN, it will result in increased line charges. This is because your computer connects to the ISDN line whenever a packet is transferred from the printer.
  - If there is more than one DHCP server, use the same setting for all servers. The printer operates using data from the DHCP server that responds first.
- 

## Using AutoNet

---

If the printer IPv4 address is not assigned by a DHCP server automatically, a temporary IPv4 address starting with 169.254, which is not used on the network, can be automatically selected by the printer.

If an AutoNet address is set as the printer's IP address, it changes every time you turn on the printer. Configure the TCP/IP settings according to your network environment.

You must change this setting to “on” to use AutoNet.

### Note

- The IP address assigned by the DHCP server is given priority over that selected by AutoNet.
- You can confirm the current IPv4 address on the configuration page.
- The printer cannot communicate with devices that do not have the AutoNet function. However, this printer can communicate with Macintosh computers running Mac OS X 10.2.3. or higher.



# Using Adobe PageMaker Version 6.0, 6.5, or 7.0

Under Windows 2000/XP/Vista, or Windows Server 2003/2003 R2/2008 with Adobe PageMaker, you need to copy PPD files to the PageMaker folder.

PPD files have the ".ppd" extension in the folder "DRIVERS\PS\XP\_VISTA\ (Language)\DISK1\" on the CD-ROM.

The third folder "(Language)" may be substituted by an appropriate language name.

Copy the ".ppd" file to the PageMaker folder.

- **For PageMaker 6.0 default installation**  
The directory is "C:\PM6\RSRC\PPD4".
- **For PageMaker 6.5 default installation**  
The directory is "C:\PM65\RSRC\USENGLISH\PPD4".  
The "USENGLISH" may vary depending on your language selection.
- **For PageMaker 7.0 default installation**  
The directory is "C:\PM7\RSRC\USENGLISH\PPD4".  
The "USENGLISH" may vary depending on your language selection.

## Note

- If the driver is not set correctly after copying the ".ppd" file, printing may not be performed properly.
- When using PageMaker, the optional features that can be selected by the printer driver will not be active. The following procedure describes how to activate the optional printer features.
  - ① On the **[File]** menu, click **[Print]**.  
The **[Print Document]** dialog box appears.
  - ② Make the necessary settings in the **[Features]** box.

# When Using Windows Terminal Service/MetaFrame

The following explains how to use Windows Terminal Service and MetaFrame.

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## Operating Environment

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The following operating systems and MetaFrame versions are supported.

### ❖ Windows 2000 Server/Advanced Server

- MetaFrame 1.8 SP1/SP2/SP3/FR1 SP3/FR1 SP4
- MetaFrame XP 1.0 SP1/SP2/FR1/FR1 SP2/FR1 SP3/FR2/FR2 SP3/FR3/FR3 SP4
- MetaFrame Presentation Server 3.0
- Citrix Presentation Server 4.0

### ❖ Windows Server 2003/2003 R2

- MetaFrame XP 1.0 FR3/FR3 SP4
- MetaFrame Presentation Server 3.0
- Citrix Presentation Server 4.0/4.5

### Note

- Under Windows 2000 Server + MetaFrame 1.8 + Service Pack 3 environment, there is a limitation that PCL Mono 5e/5c/6 printer drivers may cause critical issue with Auto Creating Printer function. Under this environment, PS and RPS drivers are supported.
- MetaFrame XP 1.0 with FR3 is renamed as "MetaFrame XP Presentation Server".
- For the latest information about the operating system and MetaFrame version, see the suppliers web site.

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## Supported Printer Drivers

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### ❖ When Windows Terminal Service is operating

- PCL printer driver
- PostScript 3

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## Limitations

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The following limitations apply to the Windows Terminal Service environment. These limitations are built in Windows Terminal Service or MetaFrame.

### ❖ **MetaFrame's [Auto-creating client printers]**

Using **[Auto-creating client printers]**, you can select a logical printer created by copying the client's local printer data to the MetaFrame server. We strongly recommend testing this function in your network environment before using it for your work.

- The settings for optional equipment will not be stored in the server after the equipment is disconnected. The settings for optional equipment will be restored to its defaults each time the client computer logs on to the server.
- When printing a large number of bitmap images or using the server in a WAN environment over dial-up lines such as ISDN, printing may not be possible or errors may occur, depending on data transfer rates.
- When using MetaFrame XP 1.0 or higher versions, we recommend making settings in **[Client Printer bandwidth]** under **[Citrix Management Console]** according to the environment.
- If a print error occurs on the MetaFrame XP 1.0 SP1/FR1 and the print job or a printer created in **[Auto-creating client printers]** cannot be deleted, we recommend making settings in **[Delete unfinished print jobs]** in the registry. For details, see the Readme file provided with MetaFrame.
- If a print error occurs on the MetaFrame XP 1.0 FR2 and the print job or a printer created in **[Auto-creating client printers]** cannot be deleted, we recommend making settings in **[Delete unfinished print jobs at logout]** of Citrix Management Console.

### ❖ **MetaFrame's [Printer driver replication]**

Using **[Printer driver replication]**, you can distribute printer drivers across all servers in a server farm. We strongly recommend testing this function in your network environment before using it for your work.

- If the printer drivers are not properly copied, install them directly onto each server.

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