Information

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.

Two kinds of size notation are employed in this manual. With this machine refer to the metric version.

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.

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.

Laser Safety:

This machine is considered class 1 laser device, safe for office / EDP use. The machine contains two AlGaAs laser diodes, 6.2 milliwatt, 770 - 795 nanometer wavelength for each emitter.

Direct (or indirect reflected) eye contact with the laser beam might cause serious eye damage. Safety precautions and interlock mechanisms have been designed to prevent any possible laser beam exposure to the operator.

The following label is attached on rear side of the printer.



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.

Power Source

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

Please be sure to connect the power cord 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:

MARNING:

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.

Environments Where the Machine Can be Used

↑ WARNING:

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

A 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.
- 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.
- Place the machine on a strong and level surface. Otherwise, it might fall and injure someone.
- 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.
- Place no objects on the cover.

Note

- ☐ Depending on the ambient temperature and humidity, steam may come from the exhaust vent behind the control panel during printing. This is water vapour from the paper, not a sign of malfunction.
- □ To avoid possible build-up of ozone, locate this machine in a large well ventilated room that has an air turnover of more than 30 m³/hr/person.

Handling Power Cords and Power Plugs

↑ 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.
- Disconnect the power plug (by pulling the plug, not the cable) if the power cable or plug becomes frayed or otherwise damaged.
- If the power cord is damaged (exposure of the core, disconnection, etc.), contact your service representative to change to a new one. Operating the machine with a damaged power cord may cause an electric shock or fire.
- It is dangerous to handle the plug with wet hands. Doing this may result in receiving an electric shock.
- Confirm the wall outlet is near the machine and freely accessible, so that in the event of emergency, it can be unplugged easily.
- Avoid connecting multiple devices including this printer to the same power source.
- Connect the machine only to the power source described in "Information" in the HTML manual or "Safety Information" (the printed manual). Connect the power cord directly into a wall outlet and do not use an extension cord.
- Power cords that are damaged, broken, modified, trapped under heavy objects, pulled hard, or bent severely are electric shock and fire hazards.

↑ CAUTION:

- To disconnect the power cord, pull it out by plug. Do not drag the cord itself.
 Doing so may result in damage to the cord, leading to fire or electric shock.
- For safety reason, unplug the power cord from the wall outlet if the machine will not be used for an extended period of time such as holidays.

Handling the Main Machine

↑ WARNING:

- Turn off the power and disconnect the power plug (by pulling the plug, not the cable) if any of the following occurs:
 - · You spill something into the machine.
 - You suspect that your machine needs service or repair.
 - The external housing of your machine has been damaged.

A 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.
- For environmental reasons, do not dispose of the machine or expended supply waste at household waste collection points. Disposal can take place at an authorized dealer.
- Before moving the machine, unplug the power cord from the wall outlet. If the cord is unplugged abruptly, it could become damaged. Damaged plugs or cords can cause an electrical or fire hazard.
- When moving the printer after use, do not take out toner and development unit to prevent toner spill inside the machine.
- When moving the machine, hold the handles at both sides, and then lift the printer slowly. Lifting it carelessly or dropping it may cause an injury.
- After you move the machine, use the caster fixture to fix it in place. Otherwise the machine might move or come down to cause an injury.
- Contact your service representative if you need to lift the machine (such as when relocating it to another floor). Do not attempt to lift the machine without the assistance of your service representative. The machine will be damaged if it topples or is dropped, resulting in malfunction and risk of injury to users. The machine's various handling areas are for service engineer use only. Do not touch these areas.
- Do not allow paper clips, staples, or other small metallic objects to fall inside the machine.
- Do not look into the lamp. It can damage your eyes.

∰Important

- ☐ Rating voltage of the connector for options: Max. DC 24 V.
- ☐ Voltage must not fluctuate more than 10%.

Handling the Machine's Interior

↑ WARNING:

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

A CAUTION:

- The fusing section of this machine might be very hot. Caution should be taken when removing misfed paper.
- The inside of this printer becomes very hot. Do not touch parts labelled "\(\triangle \)" (indicating a hot surface). Touching these parts will result in burns.
- When removing misfed paper, do not touch the fusing unit because it could be very hot.
- Do not touch the inside of the controller board compartment. It may cause a machine malfunction or a burn.
- Wait at least one hour after power off before replacing parts. Not allowing the printer to cool may result in burns.
- Before installing options, the machine should be turned off and unplugged for at least half an hour. Components inside the machine become very hot, and can cause a burn if touched.
- During operation, rollers for transporting the paper revolve. A safety device
 is being installed so that the machine can be operated safely. But take care
 not to touch the machine during operation. An injury might occur.
- When loading paper, take care not to trap or injure your fingers.
- Fire and breakdown can result from heavy accumulation of dust inside this machine. Consult your service representative for details about and charges for cleaning the machine's interior.
- Do not pull out the paper tray forcefully. If you do, the tray might fall and cause an injury.
- Keep your hands clear of the booklet finisher tray when pulling out or pushing in the finisher's staple unit. You can trap your fingers if you do not.
- Lifting the paper feed unit carelessly or dropping it may cause injury.

Handling the Machine's Supplies

↑ WARNING:

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

↑ CAUTION:

- Do not use aluminum foil, carbon paper, or similar conductive paper to avoid a fire or machine failure.
- Keep toner (used or unused) and the toner container 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.
- 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.
- Do not open toner containers forcefully. Toner can spill, dirtying your clothes or hands, and possibly resulting in accidental ingestion.
- Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.
- Keep SD cards out of reach of children. If a child swallows a SD card, consult a doctor immediately.

Our products are engineered to meet the highest standards of quality and functionality. When purchasing expendable supplies, we recommend using only those specified by an authorized dealer.

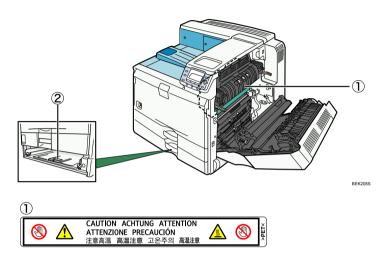
For People Using a Pacemaker

⚠ WARNING:

 This machine generates weak magnetic field that can interfere with pacemaker regulation. We advise people with pacemakers to consult a doctor and not to use this machine if they experience irregular pacemaker activity while near the machine.

Positions of **MARNING** and **CAUTION** labels

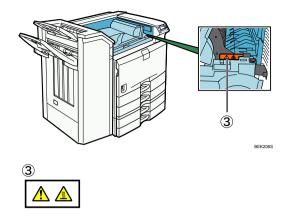
This machine has labels for <u>AWARNING</u> and <u>ACAUTION</u> at the positions shown below. For safety, please follow the instructions and handle the machine as indicated.



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



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



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

User Information on Electrical & Electronic Equipment

Users in the EU, Switzerland and Norway

Our Products contain high quality components and are designed to facilitate recycling.

Our products or product packaging are marked with the symbol below.



The symbol indicates that the product must not be treated as municipal waste. It must be disposed of separately via the appropriate return and collection systems available. By following these instructions you ensure that this product is treated correctly and help to reduce potential impacts on the environment and human health, which could otherwise result from inappropriate handling. Recycling of products helps to conserve natural resources and protect the environment.

For more detailed information on collection and recycling systems for this product, please contact the shop where you purchased it, your local dealer or sales/service representatives.

All Other Users

If you wish to discard this product, please contact your local authorities, the shop where you bought this product, your local dealer or sales/service representatives.

Noise Emission *1

❖ Sound Power Level

	Main unit only
Standby	34 dB (A)
During Printing	68 dB (A)

❖ Sound Pressure level *2

	Main unit only
Standby	20 dB (A)
During Printing	56 dB (A)

 $^{^{*1}}$ $\,$ The preceding measurements made in accordance with ISO7779 are actual values. *2 $\,$ Measured at the position of a bystander.

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 multifunction devices. Energy Star standards and logos are internationally uniform.

Energy Saver mode

This printer automatically lowers its power consumption 1 minute after the last operation has been completed. To exit 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	7 W or less
	Default Interval	1 minute
	Recovery Time	15 seconds or less

Others

Symbols

In accordance with IEC 60417, this machine uses the following symbols for the main power switch:

- I means POWER ON.
- O means POWER OFF.
- U means STAND BY.

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Errata for Quick Installation Guide

The following was omitted from the Quick Installation Guide:

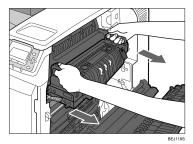
Be sure to perform the following procedure after 4. Preparing the Development Unit, *Quick Installation Guide*.

Preparing the Fusing Unit

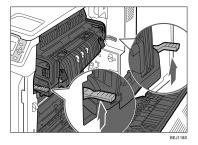
1. Raise the brown levers on both sides.



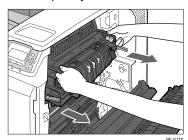
2. Holding the fusing unit by the handles, slowly pull out the fusing unit until it stops.



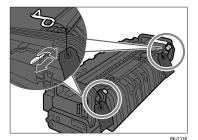
3. Raise the brown levers on both sides again.



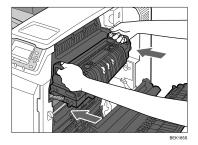
4. Holding the fusing unit firmly by the handles, pull out the fusing unit completely.



5. Turn toward you the pins that have a red tag, and then pull those pins out.



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



Lower the brown levers back in place.



8. Carefully close the right cover.

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GB (GB) EN(USA) G179-7549



Quick Installation Guide

MLP150DN/SP 8200DN LP150dn/Aficio SP 8200DN

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

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.
- Connect the machine to the power source specified in "Safety Information" 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 "Safety Information" 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

- Do not handle the plug with wet hands. Doing so might cause an electrical shock.
- 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.
- Place the machine on a strong and level surface. Otherwise, it might fall and injure someone.
- If you use the machine in a confined space, ensure there is continuous air circulation.

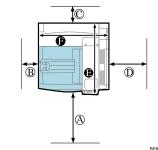
Important

Do not use the printer in the following environments:
• Areas exposed to direct sunlight or strong light

- Dusty areas
- Areas with corrosive gases
- 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

❖ Space Required for Installation

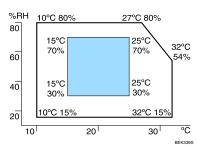
Leave enough space around the printer to operate it freely. The recommended minimum space is as follows:

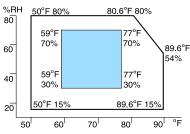


- (A): 75.0 cm (29.6 inches) or more
- B: 10.0 cm (4.0 inches) or more
- ©: 10.0 cm (4.0 inches) or more
- 1: 55.0 cm (21.7 inches) or more
- **(a)**: 67.7 cm (26.7 inches)
- **(3)**: 67.0 cm (26.4 inches)

❖ Optimum Environmental Conditions

Permissible and recommended temperature and humidity ranges are as follows:





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

Note

- The machine must be level within 5 mm, 0.2" from both front to rear and left to right.
- To avoid possible build-up of ozone, locate this machine in a large well ventilated room that has an air turnover of more than 30 m³/hr/person.
- When you use this machine for a long time in a confined space without good ventilation, you may detect a smell. To keep the workplace comfortable, we recommend that you keep it well ventilated.

Power Source

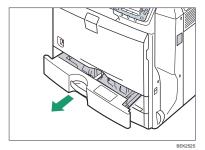
Connect the power cord to a power source of the following specification:

• 120 V, 60 Hz, 12 A or more

Checking the Included Items

Follow the procedure below to verify the items that come with the printer.

- Open the box, and check that the following items are included.
- Quick Installation Guide (This manual)
- ☐ Black Toner
- Pull out tray 1, and take out the following items.
- ☐ CD-ROM "Printer Drivers and Utilities"
- ☐ CD-ROM "Manuals"
- ☐ CD-ROM "Document Management Utility"
- ☐ Ferrite Core
- ☐ Power Cord
- ☐ Paper Feed Unit Labels
- ☐ Additional Documentation



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

₩ Note

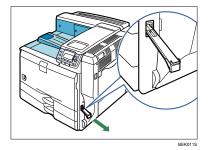
This package does not include an interface cable.
 Purchase one as necessary to connect to the printer.

Unpacking

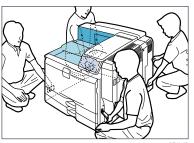
To protect it from shock and vibration during transit, this printer comes packaged in cushioning foam and secured with tape. Remove these protective materials after bringing the machine to where it will be installed.

⚠ Caution

- When lifting the machine, use the grips on both sides. The printer could break or cause an injury if dropped.
- Place no objects on the front or inner cover.
- Pull out the handle from the right side of the printer.



Lift the printer with four people by using the handles on both sides of the printer.

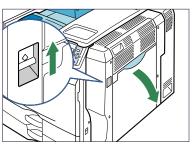


Important

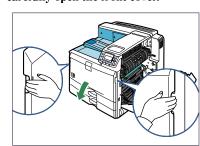
- Leave the tape in place while moving the printer.
- Lower the machine slowly and carefully to prevent trapping your hands.
- Return the handle you pulled out from the printer to its original position.

Preparing the Development Unit

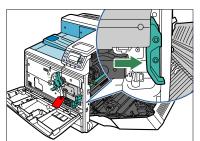
Push up the lever on the right side, and open the printer's right cover carefully.



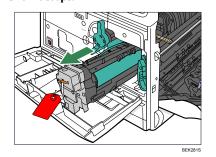
2 Holding the left and right side grips, carefully open the front cover.



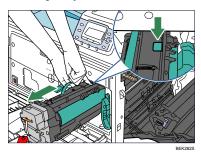
3 Unlock the right green lever.



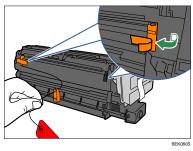
Slide the development unit out slowly until it stops.



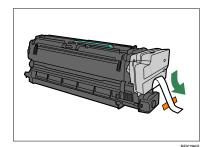
Holding the green handle, push the lock down, and then remove the development unit completely. Place it on a flat surface.



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

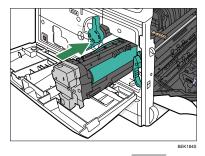


Remove the tape from the side of the development unit.



☆ Important

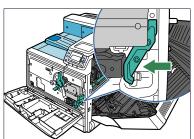
- Be careful not to tilt or shake the unit. Otherwise, toner might scatter.
- 8 Slide the development unit into the printer completely.







9 Lock the right green lever back in place.



10 Carefully close the right cover.

This completes the preparation of the development unit. Leave the front cover open, and install the toner

Installing the Toner

⚠ Warning

- · Do not incinerate used toner or toner container. 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 or a fire.

⚠ Caution

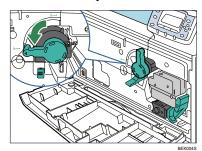
- · Keep toner (used or unused) and the toner container out of reach of children
- If toner or used toner is inhaled, gargle with plenty of water and move into a fresh air environment. Consult a doctor if necessary.
- Avoid getting toner on your clothes or skin when removing a paper jam or replacing toner. If your skin comes into contact with toner, wash the affected area thoroughly with soap and water.
- If toner 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 necessarv.
- · Avoid getting toner on your clothes or skin when removing a paper jam or replacing toner. If your skin comes into contact with toner, wash the affected area thoroughly with soap and water.
- If toner gets on your clothing, wash with cold water. Hot water will set the toner into the fabric and may make removing the stain impossible.

Important

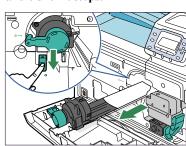
• When you first use this printer, use the toner packaged with the printer.

Note

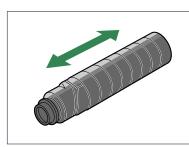
- The number of pages that can be printed using the toner supplied with this printer is approximately 36,000 pages. (A4/Letter 5% test chart, 5 pages/ job) (ISO/IEC 19752)
- The actual number of printable pages varies depending on the image volume and density, number of pages to be printed at a time, paper type and paper size used, contents of print images, and environmental conditions such as temperature and humidity.
- · A replacement toner is available to print 36,000 pages. • Toner is a consumable and is not covered by warranty. However, if there is a problem, contact the store where it was purchased.
- Turn the green handle counterclockwise until it clicks into place.



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



Shake the new black toner back and forth about five or six times.



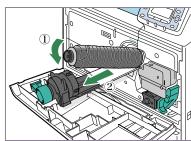
Even distribution of toner within the cartridge improves print quality

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

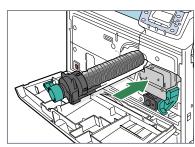


Do not shake or jar the toner after removing the black cap as toner can scatter easily.

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



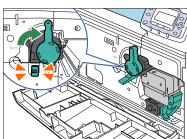
6 Push the toner holder back in carefully until it clicks into place.



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

Turn the green handle clockwise until it clicks into place.

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



8 Carefully close the front cover.

Loading Paper

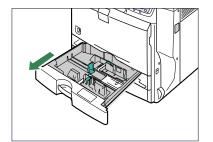
⚠ Caution

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

(Important

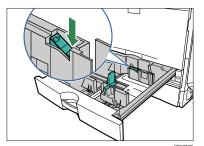
- · To avoid paper jams, make sure paper is not stacked higher than the upper limit mark inside the paper tray. Paper misfeeds might occur.
- Do not mix different types of paper in the same paper

Carefully pull out the paper tray until it

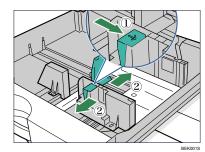


When printing using the bypass tray, do not pull out the paper tray.

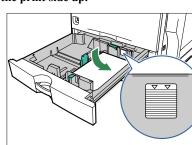
2 Unlock the side guides.



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

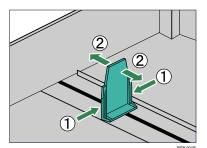


Align and load paper in the tray with the print side up.



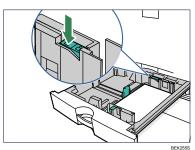
■ Reference

- · For details about types of paper supported by this printer, see "Loading Paper", Hardware Guide.
- Pinch the clips on the end guide (①), and match the guide to the paper size



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

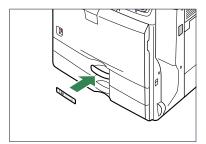
6 Lock the side guides.



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

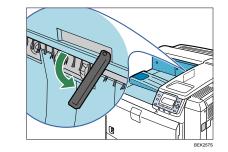
If you push the tray forcefully, the paper guides might

8 Put the label "1" on the front of tray 1.



Slide out the Paper-full detector.

The printer automatically stops ejecting paper when the Paper-full detector detects that the standard output tray has become full



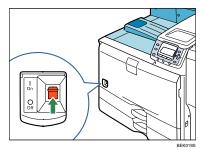
Turning the Power On

⚠ Warning

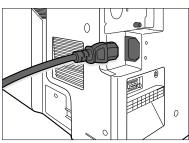
Plug and unplug the power cable with dry hands, or an electric shock could occur.

Quick Installation Guide

Make sure the power switch is set to



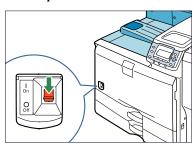
Plug the power cord into the rear of the printer.



Important

- Make sure the power cord is plugged securely into the wall outlet
- Turn the power switch off when plugging and unplugging the power plug.

3 Turn the power switch on.



The power indicator on the control panel lights

■ Note

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

Important

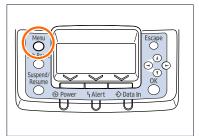
• Do not turn off the power switch until initializing is complete. Doing so results in malfunctions

Quick Installation Guide

Selecting the Display Language

Displays are shown in the selected language. The language is set to English by default.

1 Press the [Menu] key.



Press the 【▼】 or 【▲】 key to select [Language], and then press the 【OK】 key.

≡ Menu	4/4 ♦ 0K
Host Interface	
Language	
	Supplies

Press the 【▼】 or 【▲】 key to select the preferred language, and then press the 【OK】 key.

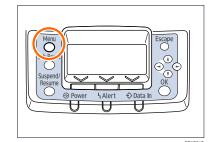
Language:	1/5	♦ (0K)
English		
Français		
Deutsch		

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

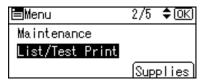
Test Printing

Print a test print in order to verify that the printer is working normally. Test printing checks printer performance only; it does not test the connection to the computer.

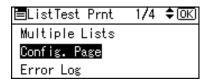
Press the [Menu] key.



Press the 【▼】 or 【▲】 key to select [List/ Test Print], and then press the 【OK】 key.



Press the 【▼】 or 【▲】 key to select [Config. Page], and then press the 【OK】 key.



The configuration page will be printed. If printing is not normal, check if an error message appears on the display. If there is an error message, see "Troubleshooting", Hardware Guide.

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

Network Connection

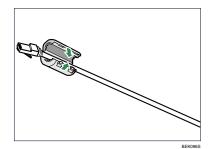
Prepare a hub and other network devices, and connect the Ethernet cable to the printer. Connect 10BASE-T or 100BASE-TX cable to the printer's Ethernet port.

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

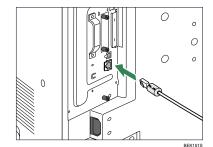
Important

- An Ethernet cable is not supplied with this printer.
 Select your cable according to the network environment.
- The Ethernet cable must be an Unshielded Twisted Pair cable (UTP) or Shielded Twisted Pair cable (STP), and Category type 5 or more.

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



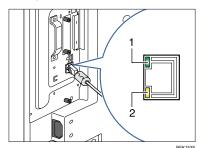
2 Connect the Ethernet cable to the Ethernet port that is located on the left side of the printer.



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

F Reference

 For details about network environment settings, see Software Guide. * Reading the LED Lamps



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

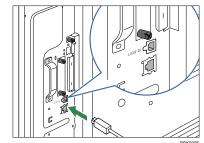
USB Connection

⚠ Caution

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

Important

- A USB cable is not supplied with this printer. Select your cable according to the computer.
- USB connection is possible under Windows 2000/ XP/Vista, Windows Server 2003/2003 R2, Mac OS 9.x, and Mac OS X.
- Connect the square-shaped connector of the USB cable to USB port B on the left side of the printer.



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

12 Ethernet Configuration

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

⚠ Caution

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

☆ Important

- After configuring the network setting, configure the security settings.
- We recommend that you first make the following settings.
- Installing the server certificate
- Enabling SSL
- Changing the administrator's user name and password using Web Image Monitor
 for details, see "Setting Up the Machine", Security
 Childs
- The following table shows the control panel settings and their default values.
 These items appear in the [Host Interface] menu.

Default
On
11.22.33.44
0.0.0.0
0.0.0.0
Active
Inactive
Auto Select
Active
Inactive
Active
Active

₩ Note

AppleTalk

LAN Type

Ethernet Speed

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

Active

Auto Select

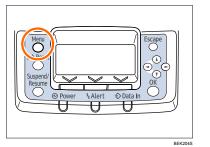
Ethernet

- If the printer is already placed on a TCP/IP-capable environment, you can also use SmartDeviceMonitor for Admin or a Web browser to configure IP addressrelated settings.
- ❖ Receiving an IP Address Automatically (DHCP)

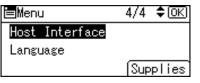
☆ Important

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

Press the [Menu] key.



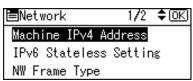
Press the 【▼】 or 【▲】 key to select [Host Interface], and then press the 【OK】 key.



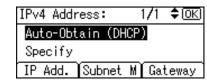
Press the 【▼】 or 【▲】 key to select [Network], and then press the 【OK】 key.

≣Host Interfc.	1/1	♦ (0K)
I/O Buffer		
I/O Timeout		
Network		

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



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



The printer will automatically receive an IP address.

To check the detected addresses, press the following:

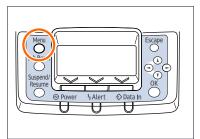
- [IP Add.] : IP address
- [IP Add.] : IP address[Subnet M] : Subnet mask
- [Gateway] : Gateway address



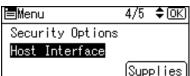




- 6 Press the [Menu] key to return to the
- Print a configuration page to confirm the settings.
 - Reference
 - For details about printing the configuration page, see "Test Printing".
- Specifying an IP Address (No DHCP)
- 1 Press the [Menu] key.



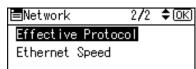
Press the **[▼]** or **[▲]** key to select [Host Interface], and then press the [OK] key.



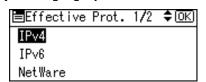
3 Press the **[▼]** or **[▲]** key to select [Network], and then press the [OK] key.

≣Host Interfc.	1/1	\$ [0K
I/O Buffer		
I/O Timeout		
Network		

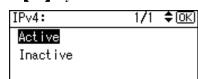
4 Press the **[▼]** or **[▲]** key to select [Effective Protocol], and then press the [OK] key.



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

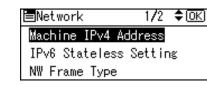


6 Press the **[▼]** or **[▲]** key to select [Active] or [Inactive], and then press the OK key.



Set other protocols you need to set in the same

- Select [Inactive] for unused protocols.
- Enable IPv4 to use the pure IPv4 environment of NetWare 5/5.1, NetWare 6/6.5.
- 7 Press the [Escape] key until the screen returns to the [Network] menu.
- If your network uses IPv4, assign the IPv4 address to the printer. Press the **【▼**] or **[▲**] key to select [Machine IPv4 Address], and then press the OK key.



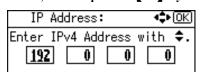
To get the IP address for the printer, contact your network administrator.

9 To specify the IPv4 Address, press [IP



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

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

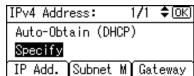


Press the **[**▼**]** or **[**▲**]** key to enter the left-most entry field of the address. After entering the left field, press the [OK] key, and then you can enter the next field. After completing all fields, press the [OK] key.

Use the same method to assign the subnet mask and gateway address.

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

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



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

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

■ Reference

• For details about printing the configuration page, see "Test Printing"

Installing The Printer Driver

You can install the printer drivers and software easily from the CD-ROM labeled "Printer Drivers and Utili-

Click [Quick Install] in the window of the CD-ROM to install PCL and RPCS printer drivers. To install the PostScript 3 printer driver, click the [PostScript 3 Printer Driver] button. For more information about the PostScript 3 printer driver, see Software Guide on the CD-ROM labeled "Manuals"

When the TCP/IP protocol is used, SmartDeviceMonitor for Client will be installed as well.

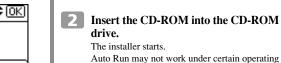
When using the TCP/IP protocol, confirm the follow-

- ☐ The printer is connected to the network with Category 5 interface cable.
- ☐ The TCP/IP protocol is enabled.
- ☐ The IP address is set for the printer and the com-

mportant]

- To install printer drivers under Windows 2000/XP Professional/Vista or Windows Server 2003/2003 R2. you must have an account that has the Manage Printers permission. Log on as an administrator.
- · For details about installing the printer drivers, see "Preparing for Printing", Software Guide.
- · When using this printer under parallel connection, only the printer drivers are installed and not SmartDeviceMonitor for Clients.
- · Quick Install is not available when using this printer under USB connection. If you connect the printer using USB, see Software Guide.

Quit all applications currently running.



system settings. In this case, launch "Setup.exe" in the CD-ROM root directory.

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

The default interface language is English.



4 Click [Quick Install].

The software license agreement appears in the [License Agreement] dialog box.



This is an example when English is selected in

After reading through all of the contents, click [laccept the agreement] to agree with the License Agreement, and then click [Next >].



6 Select the printer model you want to install in the "Select Printer" dialog box.



■ Note

- For a network connection via TCP/IP, select the printer whose IP address is displayed in [Connect to]. In this case, SmartDeviceMonitor for Client will also be installed.
- · For parallel connection, select the printer whose printer port is displayed in [Connect to].

7 Click [Install].

The following display appears while installing the



Click [Finish].

A message about restarting the computer may appear. Restart the computer to complete installation.



9 Click [Exit] in the first dialog box of the installer, and then take out the CD-ROM.



₩ Note

· To stop installation of the selected software, click [Cancel] before installation is complete.

Reference

• Quick Install is not available for parallel connection unless bidirectional communication between the printer and computer is enabled. For details about bidirectional communication between the printer and computer, see "Printing with Parallel Connection", Software Guide.



Maintenance Kit SP 8200 A/B REPLACEMENT GUIDE





Replacing Maintenance Kit A

⚠ Warning

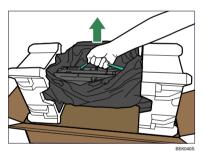
 Do not incinerate the development unit. Toner dust might ignite when exposed to an open flame. Dispose of the used development unit in accordance with local regulations.

⚠ Caution

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

Important

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



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

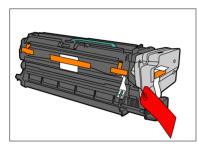
The maintenance kit contains the parts required to maintain the printer. When "Replace Maintenance Kit A." or "Replace Maintenance Kit B." appears on the panel display, replace the parts included in the maintenance kit. Read this guide carefully before you use the maintenance kit. For safety purposes, carefully follow the instructions in this guide.

Checking the Contents of the Box

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

Maintenance Kit SP 8200 A

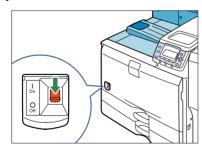
- ☑ Replacement Guide (this sheet)
- ☐ Leaflet about Unpacking the Development Unit
- ☐ Development Unit



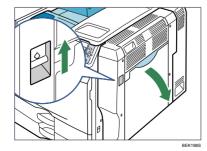
☐ Disposal Bag
For packing the used development unit

Replacing the Development Unit

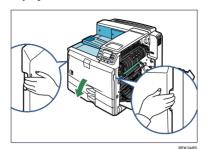
Turn off the printer and unplug the power cord.



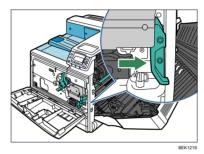
Push up the lever on the right side, and open the printer's right cover carefully.



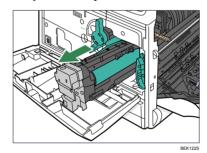
Holding the left and right side grips, carefully open the front cover.



4 Unlock the right green lever.

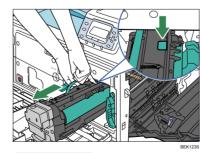


5 Slide the used development unit out slowly until it stops.



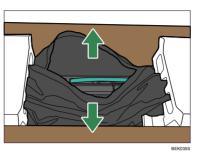
6 Holding the green handle, push the lock down, and then remove the development unit completely.

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



Important

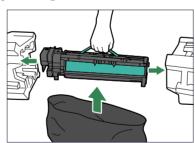
 Be careful not to tilt or shake the unit. Otherwise, toner might scatter. Open the box of the new development unit, and then open the plastic bag from the center.



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

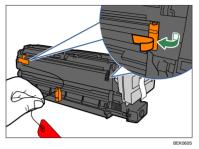


Holding the green handle, remove the protective materials from both ends, and then take the development unit out of the plastic bag.

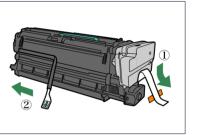


- After taking the new development unit from the box, do not to shake or jar the unit.
- 10 Remove the desiccant from the development unit.

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

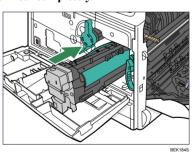


Remove the tape from the side of the development unit(①), and then take out the transparent tape (②).

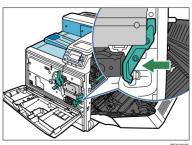


☆ Important

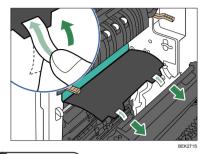
- While pulling out the tape, keep the development unit horizontal. Tilting or shaking the unit might cause the toner to scatter.
- Do not remove the black sheet until you finish installing the unit. The black sheet is used to protect the photo conductor area of the development unit.
- Slide the development unit into the printer completely.



14 Lock the right green lever back in place.



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



Important

- Do not touch the photo conductor area protected by the black sheet.
- 16 Carefully close the front cover.
- 17 Carefully close the right cover.
- Put the old development unit into the disposal bag.
- 19 Turn on the printer.

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

Note

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





Replacing Maintenance Kit B

⚠ Caution

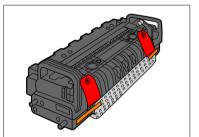
- Wait at least one hour after power off before replacing parts. Not allowing the printer to cool may result in burns.
- The inside of this printer becomes very hot. Do not touch parts labeled "\(\Delta\)" (indicating a hot surface).
 Touching these parts will result in burns.

Checking the Contents of the Box

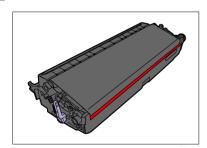
The box contains the following parts. Confirm that the contents of the box match the following lists. Check the contents of the box before replacing Maintenance Kit B.

Maintenance Kit SP 8200 B

✓ Replacement Guide (this sheet)☐ Fusing Unit



☐ Transfer Unit

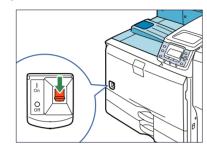


Replacing the Transfer Unit

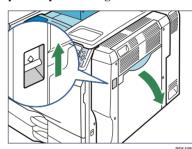
⚠ Warning

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

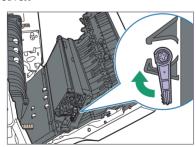
- If you attempt to start printing when the transfer unit is not installed correctly, the message "SC440" may appear on the display. If this happens, contact your sales or service representative.
- Turn off the printer and unplug the power cord.



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

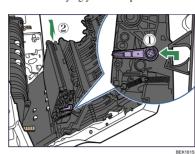


Raise the purple lever inside the right cover.



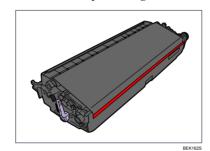
4 Holding both sides of the unit, lift the unit slightly and bring it towards the printer to unhook it from the right cover (1), and then take it out completely (2).

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

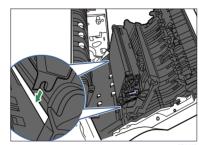


Important

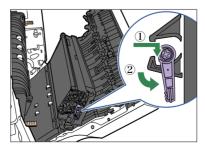
- Be careful not to tilt or shake the unit. Otherwise, toner might scatter.
- Take the new transfer unit out of the box, and remove the plastic bag.



- 6 Remove the desiccant from the transfer unit.
- Align the new transfer unit with the shaft.



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



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

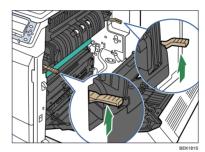
This completes transfer unit replacement. Leave the right cover open, and replace the fusing unit as shown below.

● Note

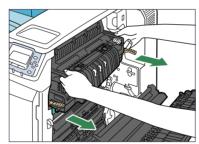
 If you cannot return the green lever to its original position, raise the green lever and remove the transfer unit. After that, try to install the transfer unit again.

Replacing the Fusing Unit

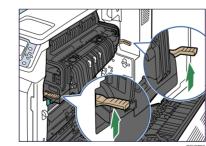
Raise the brown levers on both sides.



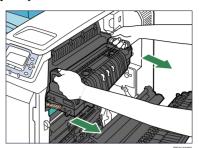
Holding the fusing unit by the handles, slowly pull out the fusing unit until it stops.



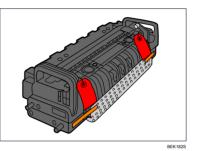
Raise the brown levers on both sides again.



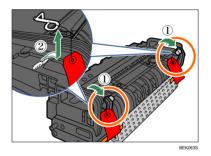
Holding the fusing unit firmly by the handles, pull out the fusing unit completely.



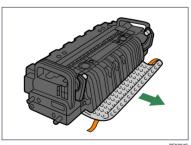
Take the new fusing unit out of the bag.



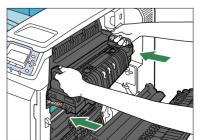
Pull down the levers on both sides of the unit (①), turn the pins with a red tag toward you, and then pull them out (②).



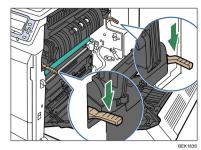
Remove the tapes from both sides and take out the protective material.



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



9 Lower the brown levers back in place.



Maintenance Kit

10 Carefully close the right cover.

11 Turn on the printer.

■ Note

- The first time you turn the printer on after installation or after replacing the fusing unit, it will make several noises. This is due to the fusing unit initializing and is perfectly normal.
- Confirm that the "Replace Maintenance Kit B." message on the display has cleared. Replacing the Maintenance Kit B is finished.

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GB GB EN USA M818-7217



MLP**150**DN SP 8200dn *LP150dn* **Aficio** SP 8200dn

Operating Instructions Hardware Guide



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

Introduction

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

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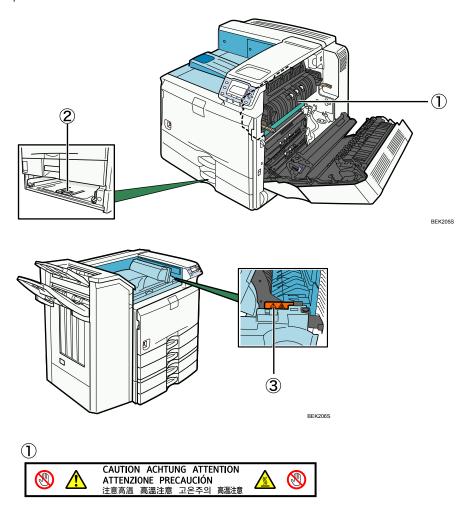
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Positions of WARNING and CAUTION Labels

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



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



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



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

Manuals for This Printer

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

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

Safety Information

Contains information about safe usage of this printer.

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

Quick Installation Guide

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

Hardware Guide (This manual)

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

Software Guide

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

Security Guide

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

UNIX Supplement

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

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



• Manuals provided are specific to machine types.

How to Read This Manual

Symbols

This manual uses the following symbols:



Indicates important safety notes.

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

ACAUTION

Indicates important safety notes.

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

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.



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

■ Reference

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

[]

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

[]

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

Model-Specific Information

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

220-240V

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

Read if you have purchased this model.

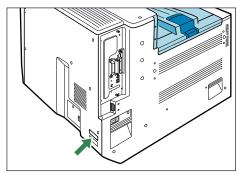
120V

This indicates information about the 120 V model printer.

Read if you have purchased this model.



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



BEK189

List of Options

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

Option name	Referred to as
HDD ENCRYPTION UNIT Type B	HDD encryption unit
VM Card Type G	VM card
Data Overwrite Security Unit Type J	Data overwrite security unit
IEEE802.11a/g Interface Unit Type J, IEEE802.11g Interface Unit Type K	Wireless LAN interface board
Data Storage Card Type A	Data storage card
Memory Unit Type G 128 MB, Memory Unit Type G 256 MB	SDRAM module
Hard Disk Drive Option Type 5000	Hard disk
Gigabit Ethernet Board Type A	Gigabit Ethernet board
IEEE 1284 Interface Board Type A	IEEE 1284 interface board
IPDS Unit Type 5100	IPDS unit
Finisher SR3030	2 tray finisher
Finisher SR790	1000-sheet finisher
Punch Unit Type 3260 NA 3/2, Punch Unit Type 3260 EU 2/4, Punch Unit Type 3260 SC	Punch unit
Output Jogger Unit Type 3260	Output jogger unit
Paper Feed Unit PB3040	1000-sheet paper feed unit
LCIT PB3050	2000-sheet paper feed unit
LCIT RT3000	1200-sheet paper feed unit
Bridge Unit BU3030	Bridge unit

Installing the Operating Instructions

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



- System Requirements:
 - Windows 95/98/Me, Windows 2000/XP/Vista, Windows Server 2003/2003 R2, or Windows NT 4.0
 - 800 × 600 or higher monitor resolution
- Web Browsers:
 - Microsoft Internet Explorer 4.01 SP2 or later
 - Netscape 6.2 or later
- Non-recommended browsers can display the simplified manual only.
- HTML manuals can also be viewed on a Macintosh.
- 1. Quit all applications currently running.
- 2. Insert the CD-ROM "Manuals" into the CD-ROM drive.

The installer starts.

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

- 3. Select an interface language, and click [OK].
- 4. Click [Install manuals].

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

- 5. Follow the instructions on the screen to complete the installation.
- 6. Click [Finish] when the installation is complete.
- 7. Click [Exit].

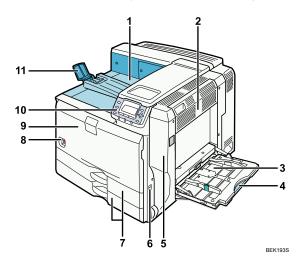


- If you cannot install a manual, copy the "MANUAL_HTML" folder to your computer's hard drive, and then run "Setup.exe".
- To delete an installed manual, on the [Start] menu, click All Programs, then [Product Name], and then
 uninstall the data.
- If you are installing the manuals on a Macintosh, open the "Manuals.htm" file on the CD-ROM.

1. Guide to the Printer

Exterior: Front View

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



1. Standard Output Tray

Printed pages are output here.

2. Upper Right Cover

Open this cover to remove jammed paper.

3. Bypass Tray

Up to 100 sheets of plain paper can be loaded.

4. Bypass Tray Extension

When loading paper larger than A4D, pull out the bypass tray extension.

5. Right Cover

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

6. Handle

Pull out this handle when lifting the printer.

7. Tray 1, Tray 2

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

8. Power Switch

Use this switch to turn the power on and off.

9. Front Cover

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

10. Control Panel

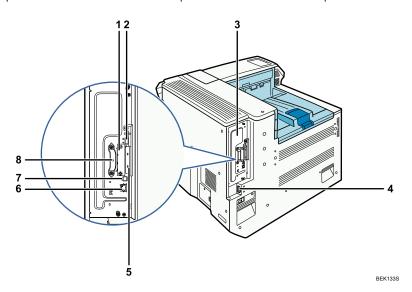
Contains keys for printer control and a display that shows the printer's status.

11. Paper Support

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

Exterior: Rear View

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



1. Optional Interface Board Slot

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

2. USB Port A

This port is usually not used.

3. Controller Board

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

4. Power Connector

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

5. SD Card Slots

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

6. Ethernet Port

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

7. USB Port B

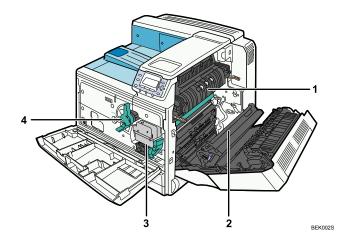
Use a USB cable to connect the printer to a computer.

8. Handle

Hold this handle when you pull out the controller board.

Interior

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



1. Fusing Unit

Replace the fusing unit when the following messages appear:

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

The fusing unit is included in Maintenance Kit B.

2. Transfer Unit

Replace the transfer unit when the following messages appear:

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

The transfer unit is included in Maintenance Kit B.

3. Development Unit

Replace the development unit when the following messages appear:

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

The development unit is included in Maintenance Kit A.

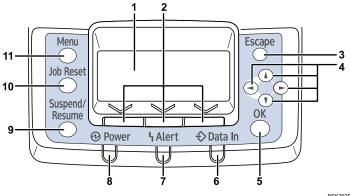
4. Toner

Replace the toner when the following messages appear:

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

Control Panel

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



1. Display

Displays current printer status and error messages.

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

2. Selection Keys

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

3. [Escape] Key

Press this key to return to the previous display.

4. Scroll Keys

Press to move the cursor in each direction.

When the $[\blacktriangle]$ $[\blacktriangledown]$ $[\blacktriangledown]$ keys appear in this manual, press the scroll key of the same direction.

5. [OK] Key

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

6. Data In indicator

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

7. Alert Indicator

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

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

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

Follow the instructions that appear on the display.

8. Power Indicator

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

9. [Suspend/Resume] Key

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

10. [Job Reset] Key

Press this key to cancel an ongoing print job.

11. [Menu] Key

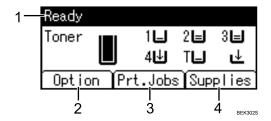
Press this key to configure and check the current printer settings.

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

Display Panel

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

The items are highlighted when selected.



1. Operational Status or Messages

Displays the current printer status or messages.

2. [Option]

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

3. [Prt.Jobs]

Press to display print jobs sent from a computer. For details, see Software Guide.

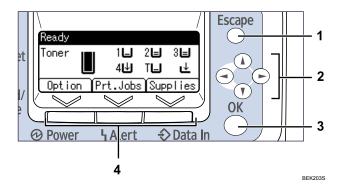
4. [Supplies]

Press to display the menu of supplies for the printer.



- [Prt.Jobs] is displayed only when the hard disk is installed in the printer.
- By default, the remaining amount of toner and paper in each tray are displayed. You can change this
 setting by selecting [Maintenance] → [General Settings] → [Display Supply Info] → [Off].
- Adjust the brightness if the screen is dark. To adjust the display contrast, select [Maintenance] →
 [General Settings] → [Display Contrast].

Reading the Display and Using Keys



19

1. [Escape] key

Cancels an operation or returns to the previous display.

2. Scroll keys

Move the cursor in each direction.

When the $[^{\blacktriangle}]$ $[^{\blacktriangledown}]$ $[^{\blacktriangledown}]$ keys appear in this manual, press the scroll key of the same direction.

3. [OK] key

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

4. Selection keys

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

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

2

2. Installing Options

Available Options

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

CAUTION

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

Order of Option Installation

When installing multiple options, the following order is recommended:

1. Attach the 1000-sheet paper feed unit or 2000-sheet paper feed unit

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

2. Attach the 1200-sheet paper feed unit

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

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

3. Install the SDRAM module

Install in the slot inside the controller board.

4. Install the hard disk

Install inside the controller board.

5. Install the interface board

Install in the slot of the controller board.

Only one interface board can be installed.

6. Insert SD card options

Insert in the SD card slot of the controller board.

There are two slots for SD cards.

Each slot supports different types of SD cards.

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

7. Attach the bridge unit

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

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

Either the 1000-sheet finisher or 2 tray finisher can be attached, but not both.

9

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

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

9. Install the punch unit in the 2 tray finisher

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

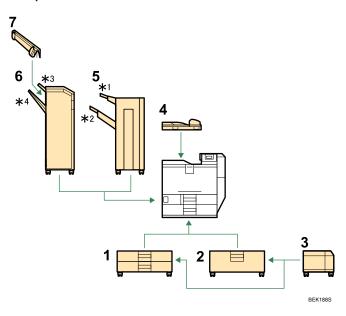
10. Attach the output jogger unit to the 2 tray finisher

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

Where to Install Options

Install options in the locations shown in the following illustrations.

External options



1. 1000-sheet paper feed unit

Attach to the underside of the printer. See "Attaching the Paper Fed Unit".

2. 2000-sheet paper feed unit

Attach to the underside of the printer. See "Attaching the Paper Fed Unit".

3. 1200-sheet paper feed unit

Attach to the right side of the 1000-sheet paper feed unit or 2000-sheet paper feed unit.

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

4. Bridge unit

Remove the output tray and attach the bridge unit.

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

5. 1000-sheet finisher

Attach to the left side of the printer.

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

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

6. 2 Tray finisher

Attach to the left side of the printer.

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

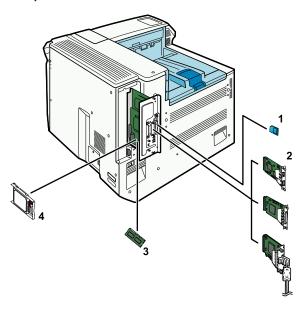
To attach this option, contact your sales or service representative.

7. Output jogger unit

Attach to the 2 tray finisher.

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

Internal options



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

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

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

• Lower slot: HDD encryption unit or VM card

See "Installing SD Card Options".

2. Optional interface board

Only one interface board can be installed.

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

See "Installing the Interface Units".

3. SDRAM module

See "Installing the Memory Expansion Units".

4. Hard disk

See "Installing the Memory Expansion Units".



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

Reference

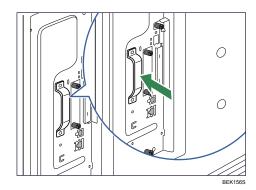
- p.26 "Attaching the Paper Feed Unit"
- p.46 "Installing SD Card Options"
- p.37 "Installing the Interface Units"
- p.30 "Installing the Memory Expansion Units"
- p.206 "Specifications"

Cautions When Re-installing the Controller Board

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

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

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



Attaching the Paper Feed Unit

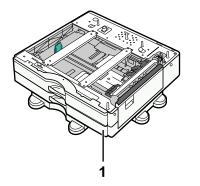
This section describes how to attach the 1000-sheet paper feed unit or 2000-sheet paper feed unit to the printer. The procedure is the same for both units. The 1000-sheet paper feed unit is used as an example.

CAUTION

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

Mportant !

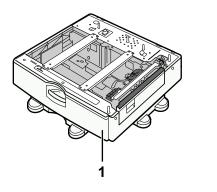
- When attaching multiple options, attach the paper feed unit first.
- Either the 1000-sheet paper feed unit or 2000-sheet paper feed unit can be attached, but not both.
- When the 1000-sheet paper feed unit or the 2000-sheet paper feed unit is attached, you can also attach the 1200-sheet paper feed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







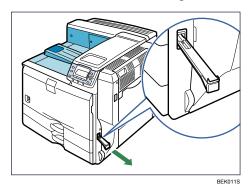
- 1. 1000-sheet paper feed unit
- 2. Two Brackets
- 3. Three Screws
- For 2000-sheet paper feed unit:



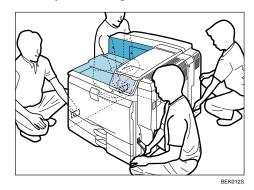




- 1. 2000-sheet paper feed unit
- 2. Two Brackets
- 3. Three Screws
- 2. Turn the printer off and unplug the power cord.
- 3. Remove the packaging from the paper feed unit.
- 4. Pull out the handle from the right side of the printer.

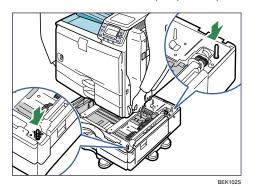


5. Lift the printer using the handles on both sides.



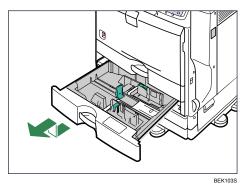
The printer should always be lifted by at least four people.

6. Align the front of the printer with the front of the paper feed unit, and slowly lower it.
Place it so that it is held firmly in place by the vertical pins.



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

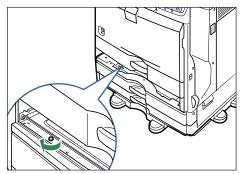
7. Pull out tray 2 of the printer slowly until it stops, lift the front of the tray slightly, and then pull out the tray completely.



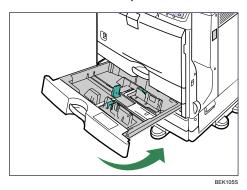
Place the tray on a flat surface.

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

Tighten the screw firmly using a coin.

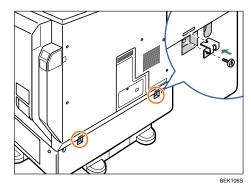


9. Lift the front of the tray, and slide it carefully into the printer until it stops.



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

Tighten the screws firmly using a coin.



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



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

Reference

• p.147 "Adjusting Printing Position"

Installing the Memory Expansion Units

This section describes how to install the memory expansion units.

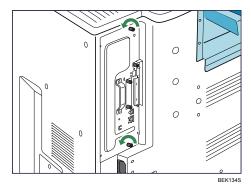
Installing the SDRAM Module

CAUTION

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

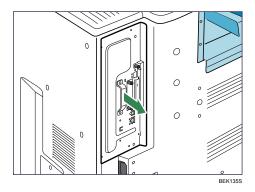
Important

- Before beginning work, ground yourself by touching something metal to discharge any static electricity. Static electricity can damage the SDRAM module.
- Do not subject the SDRAM module to physical shocks.
- When installing the SDRAM module, hard disk, and wireless LAN interface board together, install
 them in the following order: SDRAM module, hard disk, wireless LAN interface board. If the hard disk
 or wireless LAN interface board is already installed, remove it before installing the SDRAM module.
- The printer comes equipped with 256 MB of memory. This can be expanded to a maximum of 512 MB.
- Before using the new SDRAM module, you must configure settings in the printer driver.
- 1. Turn the printer off and unplug the power cord.
- 2. Remove the two screws securing the controller board.

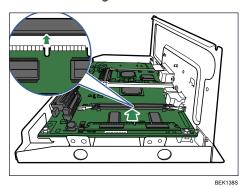


The removed screws will be used to secure the controller board again later.

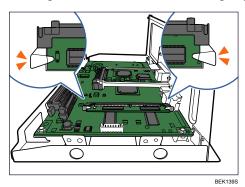
3. Holding the handle, carefully pull out the controller board.
Slide the controller board completely out and place it on a flat surface such as a table.



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

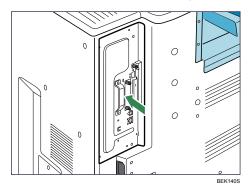


5. Holding the SDRAM module at an angle, press it down until it clicks into place.



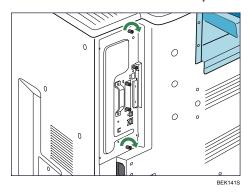
6. When also installing the hard disk, install it before returning the controller board to the printer.





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

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



- 9. Plug in the power cord, and then turn on the printer.
- 10. Print the configuration page to confirm that the SDRAM module was installed correctly.



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

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

- If the SDRAM module was not installed properly, repeat the procedure from the beginning. If it cannot be installed correctly even after reattempting installation, contact your sales or service representative.
- For information on printing the configuration page, see "Test Printing", Quick Installation Guide.

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

Reference

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

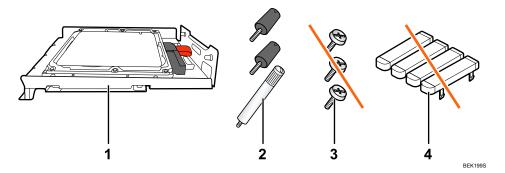
Installing the Hard Disk

ACAUTION

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

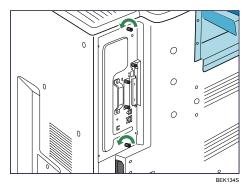
Mportant !

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



- 1. Hard Disk
- 2. Three Screws
- 3. Screws for Other Models
- 4. Key Tops
- 2. Turn the printer off and unplug the power cord.

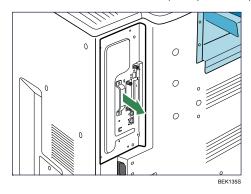
3. Remove the two screws securing the controller board.



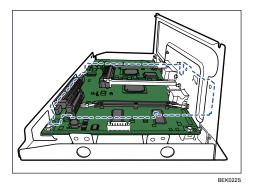
The removed screws will be used to secure the controller board again later.

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

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

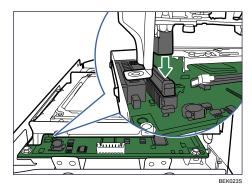


5. Install the hard disk in the indicated position.

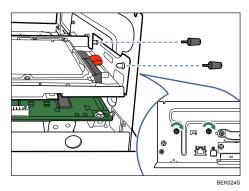


Install the hard disk carefully if the SDRAM module is already installed. If the hard disk comes in contact with the SDRAM module, the SDRAM module may become damaged.

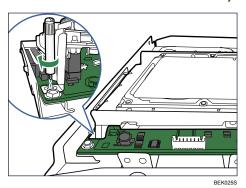
6. Fit the hard disk on the connector of the controller board carefully until it stops.



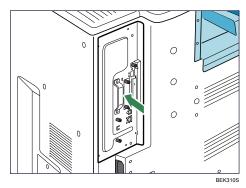
7. Fasten the two screws clockwise as shown by using a coin, to secure the hard disk.



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

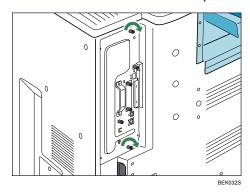






Push it firmly into the printer using the handle. The printer may malfunction if the controller board is not properly installed.

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



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

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

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



- Confirm that the hard disk was correctly installed by printing the configuration page. If it is correctly installed, "Hard Disk Drive" will appear for "Device Connection" on the configuration page.
- If the hard disk was not installed properly, repeat the procedure from step 2. If it cannot be installed correctly even after reattempting installation, contact your sales or service representative.
- For information on printing the configuration page, see "Test Printing", Quick Installation Guide.
- Install the controller board carefully. For details, see "Cautions When Re-installing the Controller Board".

■ Reference

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

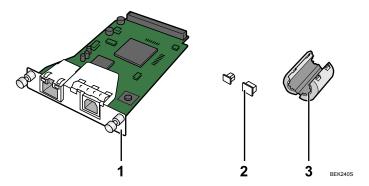
2

Installing the Interface Units

Installing the Gigabit Ethernet Board

Important

- Before beginning work, ground yourself by touching something metal to discharge any static electricity. Static electricity can damage the board.
- Do not subject the board to physical shocks.
- The printer's Ethernet and USB ports are not available when the Gigabit Ethernet board is attached to the printer. Use the Ethernet and USB ports on the Gigabit Ethernet board.
- 1. Check the contents of the package.

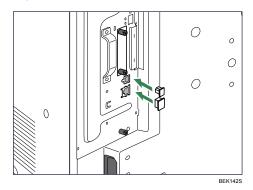


- 1. Gigabit Ethernet Board
- 2. Protective Caps (one each for the Ethernet port and the USB port)
- 3. Ferrite Core

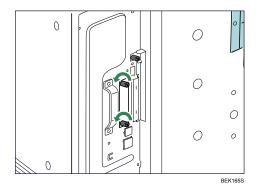
Use the included ferrite core when connecting an Ethernet cable to the board.

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

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

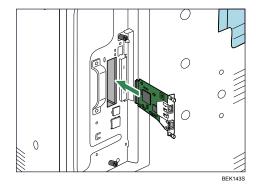


4. Loosen the two screws and remove the slot cover.



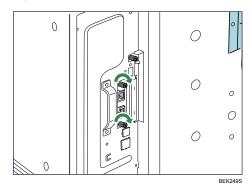
The removed cover will not be reused.

5. Fully insert the Gigabit Ethernet board.



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

6. Tighten the two screws to secure the board.



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



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

Reference

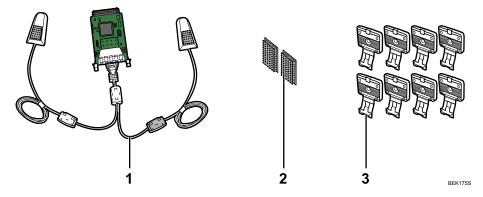
• p.55 "Ethernet Configuration"

Installing the Wireless LAN Interface Board

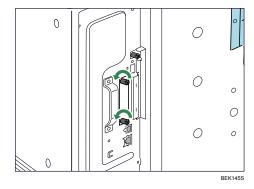


- Before beginning work, ground yourself by touching something metal to discharge any static electricity. Static electricity can damage the board.
- Do not subject the board to physical shocks.
- When installing the SDRAM module, hard disk, and wireless LAN interface board together, install
 them in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

1. Check the contents of the package.

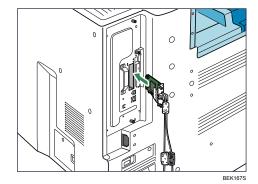


- 1. Wireless LAN Interface Board
- 2. Two Hook-and-loop Fasteners
- 3. Eight Hooks
- 2. Turn the printer off and unplug the power cord.
- 3. Loosen the two screws and remove the slot cover.



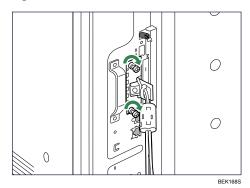
The removed cover will not be reused.

4. Fully insert the interface board.

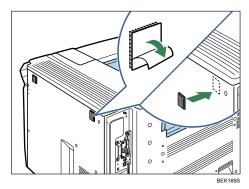


Confirm that the interface board is firmly connected to the controller board.

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

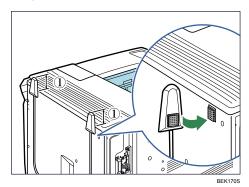


6. Remove protective paper from the hook-and-loop fasteners, and then place them as far away from each other as possible on the upper side of the printer rear.



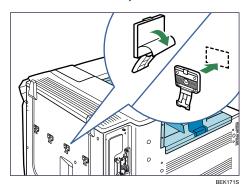
Make sure that the hook-and-loop fasteners are not placed over any screw holes or seams on the printer body.

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



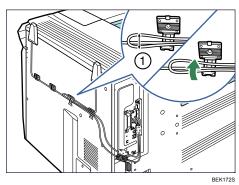
①: The antenna tops must project at least 4 cm (1.6inches) above the printer body.

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



Extra hooks are spare accessories.

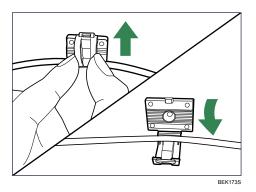
9. Secure the cables using the four hooks. Loop the cable for the antenna on the right as shown.



- 1: The loop must have a diameter of at least 1 cm (0.4inches).
- 10. Plug in the power cord, and then turn on the printer.
- 11. Print the configuration page to confirm that the board was attached correctly.



- Confirm that the board was correctly installed by printing the configuration page. If it is correctly
 installed, "Wireless LAN" will appear for "Device Connection" on the configuration page.
- If the board was not installed properly, repeat the procedure from step 2. If it cannot be installed correctly even after reattempting installation, contact your sales or service representative.
- For information on printing the configuration page, see "Test Printing", Quick Installation Guide.
- If you need to open the hook, hold the tab of the hook, raise it slightly upward, and then pull it open.



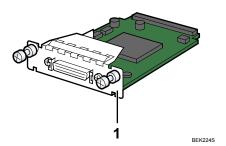
 Before using the board, you must configure settings from the printer control panel. For details, see "Wireless LAN Configuration".

Reference

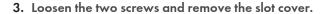
• p.64 "Wireless LAN Configuration"

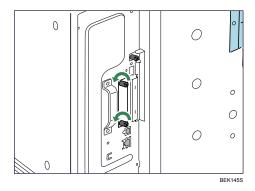
Installing the IEEE 1284 Interface Board

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



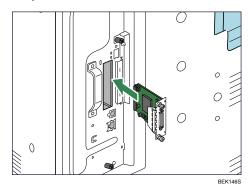
- 1. IEEE 1284 Interface Board
- 2. Turn the printer off and unplug the power cord.





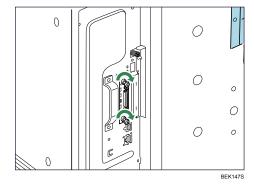
The removed cover will not be reused.

4. Fully insert the IEEE 1284 interface board.



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

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



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

U Note

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

■ Reference

• p.54 "Parallel Cable Connection"

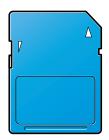
This section provides the procedure for installing the following SD cards: a data overwrite security unit, data storage card, IPDS unit, HDD encryption unit, and VM card.

ACAUTION

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

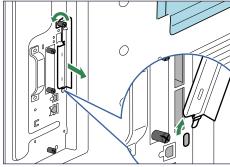
☆ Important

- Do not subject the card to physical shocks.
- 1. Check the contents of the package.



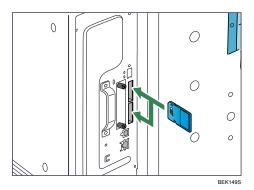
BFL308S

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



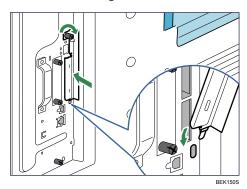
BEK107S

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



Insert the SD card in the appropriate slot as follows:

- Upper slot: data overwrite security unit, data storage card, or IPDS unit
- Lower slot: HDD encryption unit or VM card
- 5. Hook the SD card slot cover onto the opening, attach it flat against the controller board, and then fasten it using the screw.



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



- Do not touch the card while the printer is in use. The card may come loose, even if it is pushed only slightly. The SD card slot cover must be reattached.
- You can confirm that the SD card was installed correctly by checking the control panel menu. Depending on the SD card, certain menu items appear on the display.
 - Data overwrite security unit: [Memory Erase Status] appears on the top level menu.
 - IPDS unit: [IPDS Menu] appears in [Print Settings].
 - HDD encryption unit: [Machine Data Encryption] appears in [Security Options].
- If the card is not installed properly, repeat the procedure from the beginning. If it cannot be installed correctly even after reattempting installation, contact your sales or service representative.

2

• For information on printing the configuration page, see "Test Printing", Quick Installation Guide.

3. Connecting the Printer Cables

Ethernet Cable Connection

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

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

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

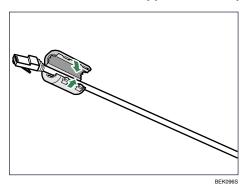
ACAUTION

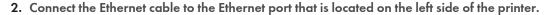
- A network interface cable with a ferrite core must be used for RF interference suppression.
- For users outside the United States of America: properly shielded and grounded cables and connectors
 must be used for connections to a host computer (and/or peripheral) in order to meet emission limits.
-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

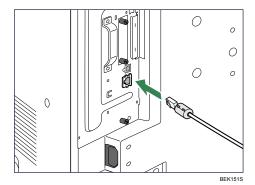
- An Ethernet cable is not supplied with this printer. Select your cable according to the network environment.
- The printer's Ethernet port is not available when the Gigabit Ethernet board is attached to the printer.
- The Ethernet cable must be an Unshielded Twisted Pair cable (UTP) or Shielded Twisted Pair cable (STP), and Category type 5 or more.

Connecting to the standard Ethernet port

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





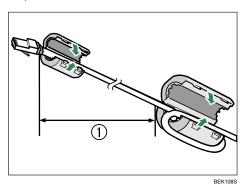


3. Connect the other end of the cable to the network, for example using a hub.

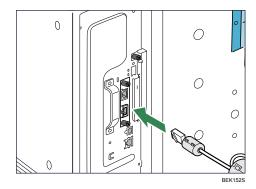
Connecting to the Ethernet port of the Gigabit Ethernet board

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

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



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



3

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



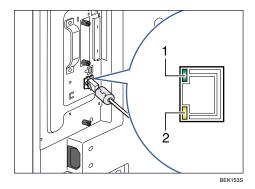
• For details about configuring the network environment, see "Ethernet Configuration".

Reference

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

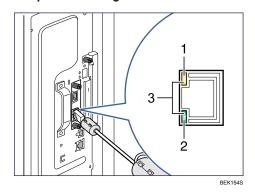
Reading the LED Lamps

Standard Ethernet port



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

Ethernet port of the Gigabit Ethernet board



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

USB Cable Connection

CAUTION

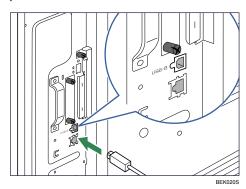
- For users outside the United States of America: properly shielded and grounded cables and connectors must be used for connections to a host computer (and/or peripheral) in order to meet emission limits.
- For users in the United States of America: properly shielded and grounded cables and connectors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

Important

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

Connecting to the standard USB port

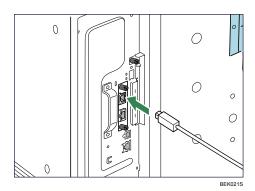
1. Connect the square-shaped connector of the USB cable to USB port B on the left side of the printer.



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

Connecting to the USB port of the Gigabit Ethernet board

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



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



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

■ Reference

• p.37 "Installing the Gigabit Ethernet Board"

Parallel Cable Connection

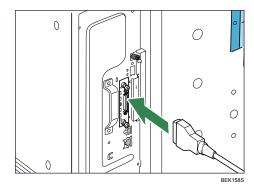
The type of cable required varies depending on the computer you are using. Make sure to use the interface cable compliant with your computer.

ACAUTION

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

Mportant (

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



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



• "Preparing for Printing", Software Guide

Reference

• p.43 "Installing the IEEE 1284 Interface Board"

4. Configuration

Ethernet Configuration

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

Mportant (

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

Setting Name	Default
Machine IPv4 Address	DHCP: OnIPv4 Address: 11.22.33.44Subnet Mask: 0.0.0.0Gateway Address: 0.0.0.0
IPv6 Stateless Setting	Active
IPsec	Inactive
NW Frame Type	Auto Select
Effective Protocol	 IPv4: Active IPv6: Inactive NetWare: Active SMB: Active Apple Talk: Active
Ethernet Speed	Auto Select
LAN Type	Ethernet



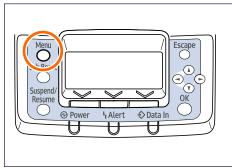
- If DHCP is in use on your network, the IP address, subnet mask, and gateway address are all set automatically.
- If the printer is already placed on a TCP/IP-capable environment, you can also use
 SmartDeviceMonitor for Admin or a Web browser to configure IP address-related settings.

Specifying an IP Address (No DHCP)

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

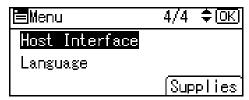
Before beginning, make sure that you know the IP address, subnet mask and gateway address that the printer will use.

1. Press the [Menu] key.



BEK2048

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



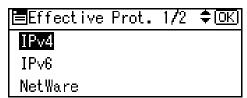
Press the [▼] or [▲] to select [Network], and then press the [OK] key.



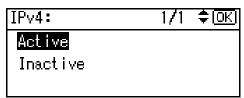
Press the [▼] or [▲] key to select [Effective Protocol], and then press the [OK] key.



Press the [♥] or [♠] key to select the appropriate network protocol, and then press the [OK] key.



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



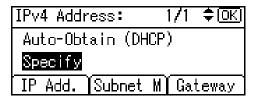
Set other protocols you need to set in the same way.

- Select [Inactive] for unused protocols.
- Enable IPv4 to use the pure IPv4 environment of NetWare 5/5.1, Netware 6/6.5.
- 7. Press the [Escape] key until the screen returns to the [Network] menu.
- If you use IPv4, assign the IPv4 address to the printer. Press the [▼] or [▲] key to select [Machine IPv4 Address], and then press the [OK] key.



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

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

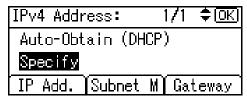


If you use IPv4, also assign the subnet mask and gateway address. To assign these, press [Subnet M] or [Gateway].

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

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





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

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



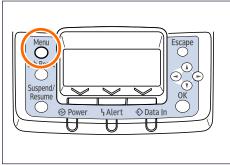
· For details about printing the configuration page, see "Test printing", Quick Installation Guide.

Receiving an IP Address Automatically (DHCP)

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

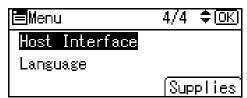
☆ Important

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

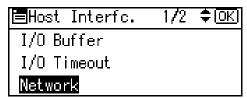


BEK204S

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



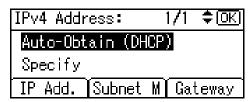
3. Press the [♥] or [♠] key to select [Network], and then press the [OK] key.



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



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



The printer will automatically receive an IP address.

To check the detected addresses, press the following:

- [IP Add.] : IP address
- [Subnet M]: Subnet mask
- [Gateway]: Gateway address
- 6. Press the [Menu] key to return to the initial screen.
- 7. Print a configuration page to confirm the settings.



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

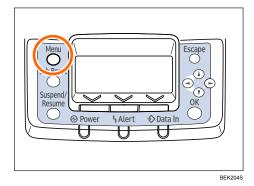
Configuring Network Settings When Using NetWare

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

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



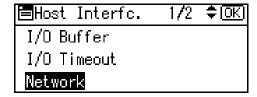
- Usually, you can use the default (Auto Select). When you first select [Auto Select,] the frame type
 detected by the printer is adopted. However, if your network can use more than two frame types, the
 printer may fail to select the correct frame type with [Auto Select] selected. In this case, select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



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



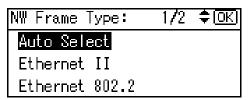
3. Press the [♥] or [♠] key to select [Network], and then press the [OK] key.



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



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



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



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

Setting the Ethernet Speed

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

	Printer				
Router/HUB	[10Mbps Half D.]	[10Mbps Full D.]	[100Mbps Half D.]	[100Mbps Full D.]	[Auto Select]
10 Mbps half duplex	0	-	-	-	0
10 Mbps full duplex	-	0	-	-	-
100 Mbps half duplex	-	-	0	-	0
100 Mbps full duplex	-	-	-	0	-

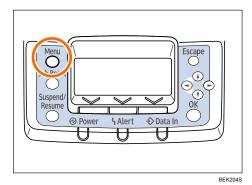
Important

 Connection cannot be established if the selected Ethernet speed does not match your network's transmission speed.

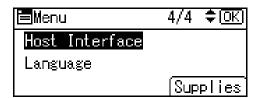
Printer

0

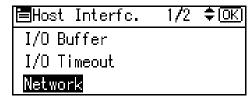
- The auto-negotiation mechanism allows two interfaces to automatically determine an optimum Ethernet speed as soon as they are connected. We recommend you select [Auto Select].
- 1. Press the [Menu] key.



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



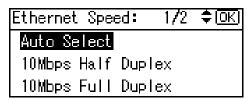
Press the [▼] or [▲] key to select [Network], and then press the [OK] key.



4. Press the $[\,^{\blacktriangledown}]$ or $[\,^{\blacktriangle}]$ key to select [Ethernet Speed], and then press the $[\,^{\blacktriangledown}]$ key.



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



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



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

Wireless LAN Configuration

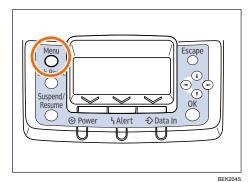
Configure the following wireless LAN settings according to the network environment using the control panel.



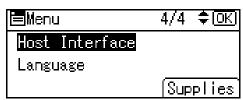
- Ethernet and Wireless LAN cannot be used at the same time.
- To use wireless LAN, set as follows using the control panel: press the [Menu] key, select [Host
 Interface], [Network], [LAN Type], and then select [Wireless LAN]. In addition, you must set the IP
 address, subnet mask, gateway address, DHCP,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

Setting Name	Default	
Communication Mode	Infrastructure Mode	
Ad-hoc Channel	When using the IEEE 802.11a/g Interface Board: 36 When using the IEEE 802.11g Interface Board: 11	
Communication Speed	Auto	
SSID Setting	blank	
Security Method	None	

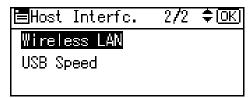
1. Press the [Menu] key.



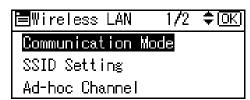
2. Press the [▼] or [▲] key to select [Host Interface], and then press the [OK] key.



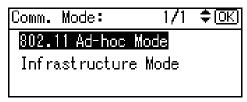
3. Press the [♥] or [♠] key to select [Wireless LAN], and then press the [OK] key.



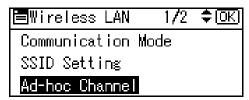
4. Press the [▼] or [▲] key to select [Communication Mode], and then press the [OK] key.



 Press the [♥] or [♠] key to select the transmission mode of the wireless LAN, and then press the [OK] key.



- To communicate wirelessly with a device that does not require an SSID to be set, select [802.11
 Ad-hoc Mode].
- The transmission mode of the wireless LAN can also be set using Web Image Monitor.
- If [802.11 Ad-hoc Mode] is selected for [Communication Mode], press the [▼] or [▲] key to select [Ad-hoc Channel], and then press the [OK] key.



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

Ad-ho	c Chan	nel:	1/1 🐗	▶ [OK]
1	2	3	4	5
6	7	8	9	10
i i i i	36	40	44	48

- Press the [▼] or [▲] key to select the appropriate channel, and then press the [OK] key.
- 9. Press the [▼] or [▲] key to select [Communication Speed], and then press the [OK] key.
- 10. Press the [▼] or [▲] key to select the appropriate speed, and then press the [OK] key.
 The default is [Auto]. If you need to change the transmission speed depending on the environment you are using, select the appropriate speed.
- 11. Print a configuration page to confirm the settings.



- · For details, see Web Image Monitor Help, and "Using Web Image Monitor", Software Guide.
- For details about printing the configuration page, see "Test Printing", Quick Installation Guide.

Reference

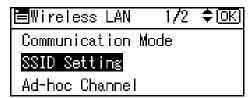
• p.55 "Ethernet Configuration"

Setting the SSID

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

Ask the network administrator for the SSID to use.

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



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

2. Press [Enter].

4

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



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

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

4. Print a configuration page to confirm the settings.



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

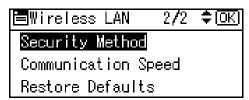
Setting Security Method of Wireless LAN

Setting a WEP Key

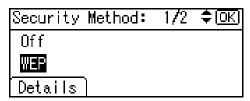
If the wireless network uses WEP to encrypt transmitted data, the corresponding WEP key must be set to the printer to allow communications with other network devices.

Ask the network administrator for the WEP key to use.

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



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



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

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

```
Enter WEP (Encryption)
Key.
Hex:10/26 Digits
ASCII:5/13 Digits Enter
```

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



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

- When using 64-bit WEP, up to 10 hexadecimal characters or five ASCII characters can be
 entered. When using 128-bit WEP, up to 26 hexadecimal characters or 13 ASCII characters
 can be used.
- Up to 10 or 26 hexadecimal characters and 5 or 13 ASCII characters can be entered.
- For ASCII character strings, uppercase and lowercase letters are differentiated, so be sure to enter characters in the required case.
- 5. Press the [Menu] key to return to the initial screen.
- 6. Print a configuration page to confirm the settings.



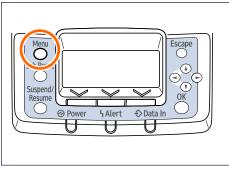
- The WEP key can also be set using a Web browser. For details, see the Web Image Monitor Help.
- For details about printing the configuration page, see "Test Printing", Quick Installation Guide.

Setting WPA

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

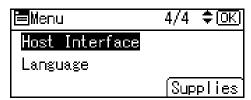


- For setting WPA, installing the optional HDD or the optional Data Storage Card is required.
- 1. Press the [Menu] key.

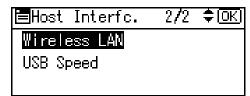


BEK204S

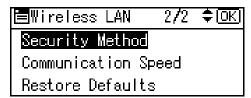
2. Press the [▲] or [▼] key to select [Host Interface], and then press the [OK] key.



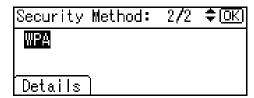
3. Press the [▲] or [▼] key to select [Wireless LAN], and then press the [OK] key.



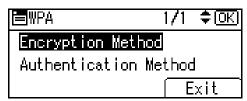
4. Press the [▲] or [▼] key to select [Security Method], and then press the [OK] key.



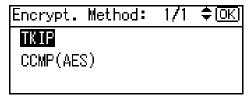
5. Press the [▲] or [▼] key to select [WPA], and then press [Details].



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



7. Press the $[^{\blacktriangle}]$ or $[^{\blacktriangledown}]$ key to select encryption method, and then press the [OK] key.



Consult your network administrator for information about making encryption settings.

Encryption settings are as follows:

[TKIP]

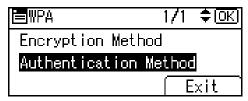
Uses the same algorithm as RC4, but further reduces vulnerability using methods such as key mixing.

[CCMP(AES)]

Increases security using AES (Advanced Encryption Standard).

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

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



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



Authentication settings are as follows:

• [WPA-PSK]

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

• [WPA]

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

• [WPA2-PSK]

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

• [WPA2]

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

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

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

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





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



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

14. Press the [Menu] key.

The initial screen appears.

15. Print a configuration page to confirm the settings.



• For details about printing a configuration page, see "Test Printing", Quick Installation Guide.

4

Configuring WPA/WPA2

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

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

Types and requirements of certificates are as follows:

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

EAP Types Requiring a "Site Certificate"

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

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

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

Mportant (

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

Installing a Site Certificate

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

For details about the login user name and password, consult your administrator.

- 5. Click [Configuration].
- 6. [Site Certificate] in the "Security" area.
- Click [Browse] on the "Site Certificate to Import" window, and then select the CA certificate you obtained.
- 8. Click [Import].
- 9. Click [OK].
- 10. Click [Logout].
- 11. Quit the Web browser.

Installing Device Certificate

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

- 1. Start your Web browser.
- 2. Enter "http://(printer's address)/" in the address bar of a Web browser.
- Enter your user name and password, and then click [Login].For details about the login user name and password, consult your administrator.
- 4. Click [Configuration].
- 5. Click [Device Certificate] in "Security" area.
- Check [Certificate1] or [Certificate2] on the "Device Certificate" window, and then click [Request].
- 7. Enter appropriate "Common Name" and "Country Code" on "Certificate Information" page, and then click [OK].
- 8. "Updating..." appears. Wait for about 2 minutes, and then click [OK].
- Click [Details], shown in the "Device Certificate" window as the memo pad icon for "Requesting".
- 10. Select all, and then copy the entire "Text for Requested Certificate" text that is displayed in the "Certificate Status" window.
- 11. Access the certificate authority server, and then obtain the CA signified certificate using the text copied into "Text for Requested Certificate" windows.
 - Obtaining the certificate differs depending on the environment you want to use.
- 12. Click [Certificate 1] or [Certificate 2] on "Device Certificate" window, and then click [Install].

 If you have selected [Certificate 1] in step 6, click [Certificate 1] in this step. If you have selected

 [Certificate 2] in step 6, click [Certificate 2] in this step.
- Using a text editor, open the CA signified certificate downloaded in step 11, and then copy over all the text.
- 14. In the [Install Certificate] window, paste all the text copied into the CA signified certificate.
- 15. Click [OK].
- 16. "Updating..." appears. Wait for about one or two minutes, and then click [OK]. Check that the "Device Certificate" shows "Installed".
- 17. Click [Certificate 1] or [Certificate 2] on "Certification", and then click [OK].

 If you have selected [Certificate 1] in step 6, click [Certificate 1] in this step. If you have selected [Certificate 2] in step 6, click [Certificate 2] in this step.
- 18. Click [Logout].
- 19. Quit the Web browser.



- If you request two certificates simultaneously, the certificate authority might not display either certificate. Click [Cancel Request] to cancel the request.
- Click [Cancel Request] to cancel the request for the server certificate.
- If "Not found" appears after clicking [OK] in steps 8 and 16, wait one or two minutes, and then click [Refresh].

Setting Items of WPA/WPA2

- 1. Start your Web browser.
- 2. Enter "http://(printer's address)/" in the address bar of a Web browser.
- Enter your user name and password, and then click [Login].For details about the login user name and password, consult your administrator.
- 4. Click [Configuration], and then click [Wireless LAN Settings] in the "Interface" area.
- 5. Select [Infrastructure Mode] in "Communication Mode".
- 6. Enter the alphanumeric characters (a-z, A-Z, or 0-9) in [SSID] according to the access point you want to use.
- 7. Select [WPA] in "Security Method".
- 8. Select [TKIP] or [CCMP (AES)] in "WPA Encryption Method" according to the access point you want to use.
- 9. Select [WPA] or [WPA2] in "WPA Authentication Method".
- 10. In "User Name", enter the user name set in the RADIUS server.
- 11. Enter the domain name in "Domain Name".
- 12. Select "EAP Type". Configurations differ according to the EAP Type.

EAP-TLS

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

LEAP

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

EAP-TTLS

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

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

PEAP

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



- You can select [Certificate 1] or [Certificate 2] in the "Device Certificate" window. Note that if you select [Certificate 1] in the "Device Certificate" window, you must select [Certificate 1] in the "IEEE802.11 a" drop down menu in the "Certification" window.
- If there is a problem with settings, you might not be able to communicate with the printer. To identify the problem, print a network summary.
- If you cannot identify the problem, reset the printer interface to normal, and then repeat the procedure from the beginning.

5. Paper and Other Media

Supported Paper for Each Tray

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



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

500-sheet Paper Trays

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



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

Reference

• p.89 "Loading Paper"

2000-sheet Paper Feed Unit

Metric version	Imperial version
A4D	8 ¹ / ₂ " × 11" (Letter)□

UNote

• The paper tray guides are fixed. However, you can switch the setting between A4 \square and 8 $^1/_2$ " × 11" (Letter) \square . If you wish to use a paper size other than the default, contact your sales or service representative.

1200-sheet Paper Feed Unit

Metric version	Imperial version
A4D	8 ¹ / ₂ " × 11" (Letter)D

Note

• The paper tray guides are fixed. However, you can switch the setting between A4D, 8¹/₂" × 11" (Letter)D, and B5 JISD. If you wish to use a paper size other than the default, contact your sales or service representative.

Bypass Tray

	Metric version	Imperial version
Paper sizes selected automatically	A3□, A4□, A5□	11"×17"□,8 ¹ / ₂ "×11" (Letter) □,5 ¹ / ₂ "×8 ¹ / ₂ " (Half Letter) □
Paper sizes requiring manual setting	A4D, A5D, A6D, B4 JISD, B5 JISDD, B6 JISD, 11" × 17"D, 8 ¹ / ₂ " × 14" (Legal)D, 8 ¹ / ₂ " × 13" (Foolscap)D, 8 ¹ / ₄ " × 11" (Letter)DD, 8 ¹ / ₄ " × 13" (Folio)D, 8" × 13" (F/GL) D, 7 ¹ / ₄ " × 10 ¹ / ₂ " (Executive) DD, 5 ¹ / ₂ " × 8 ¹ / ₂ " (Half Letter) D, 4 ¹ / ₈ " × 9 ¹ / ₂ "D, 3 ⁷ / ₈ " ×	8 ¹ / ₂ " × 14" (Legal) □, 8 ¹ / ₂ " × 13" (Foolscap) □, 8 ¹ / ₄ " × 11" (Letter) □, 8 ¹ / ₄ " × 13" (Folio) □, 8" × 13" (F/GL) □, 7 ¹ / ₄ " × 10 ¹ / ₂ " (Executive) □□, 4 ¹ / ₈ " × 9 ¹ / ₂ " □, 3 ⁷ / ₈ " × 7 ¹ / ₂ " □, C5 Env. □, C6 Env. □, DL Env □, A3 □, A4 □ □, A5 □ □, A6 □, B5 JIS □□, B4 JIS □, B6 JIS □

Metric version	Imperial version
7 ¹ / ₂ "D, C5 Env.D, C6 Env.D, DL EnvD Custom size: 90 to 305 mm in width, 148 to 600 mm in length	Custom size: 3.55" to 12.00" in width, 5.83" to 23.62" in length



- Print quality may not be guaranteed for custom size paper that is wider than 297 mm (11.69 inches) in width or longer than 433 mm (17.05 inches) in length.
- When using paper whose sizes are not automatically selected, select the paper size manually using the control panel. See "Loading Paper".

Reference

• p.89 "Loading Paper"

Paper Weight and Capacity

Tray	Supported paper weight	Supported capacity (Plain paper)
Tray 1	60 to 216 g/m² (16 to 57 lb.)	550 sheets (80 g/m², 20 lb.)
Tray 2	60 to 216 g/m² (16 to 57 lb.)	550 sheets (80 g/m², 20 lb.)
1000-sheet paper feed unit	60 to 216 g/m² (16 to 57 lb.)	550 sheets × 2 (80 g/m², 20 lb.)
2000-sheet paper feed unit	60 to 216 g/m ² (16 to 57 lb.)	1000 sheets × 2 (80 g/m², 20 lb.)
1200-sheet paper feed unit	60 to 216 g/m² (16 to 57 lb.)	1200 sheet (80 g/m², 20 lb.)
Bypass tray	52 to 216 g/m ² (14 to 57 lb.)	100 sheets (80 g/m², 20 lb.)

UNote

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

Paper Recommendations

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



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

Storing Paper

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

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

Types of Paper and Other Media

This section describes the types of paper and required settings.

Plain paper

Paper thickness	60 to 81g/m² (14 to 21lb.)	
Printer setup	Select [Paper Input] → [Paper Type: (tray name)] → [Plain Paper].	
Printer driver setup	Select [Plain] in [Paper Type].	
Supported paper feeding tray	Any input tray can be used.	
Paper capacity	• Tray 1, 2: 550	
	Tray 3: 550 (1000-sheet paper feed unit) or 2000 (2000-sheet paper feed unit)	
	• Tray 4: 550	
	• LCT: 1200	
	Bypass tray: 100	

	Make sure paper is not stacked higher than the upper limit mark (▼) inside the tray. When using the bypass tray, make sure paper is not stacked higher than the paper guides inside it.
Duplex printing	Supported

Middle Thick

Paper thickness	82 to 105g/m² (21 to 28lb.)
Printer setup	Select [Paper Input] → [Paper Type: (tray name)] → [Middle Thick].
Printer driver setup	Select [Middle Thick] in [Paper Type].
Supported paper feeding tray	Any input tray can be used.
Paper capacity	• Tray 1, 2: 550
	Tray 3: 550 (1000-sheet paper feed unit) or 2000 (2000-sheet paper feed unit)
	• Tray 4: 550
	• LCT: 1200
	Bypass tray: 100
	Make sure paper is not stacked higher than the upper limit mark (▼) inside the tray. When using the bypass tray, make sure paper is not stacked higher than the paper guides inside it.
Duplex printing	Supported

Thick paper

	106 to 216 g/m² (28 to 58 lb.)
Paper thickness	• [Thick Paper 1]: 106 to 160 g/m² (28 to 45 lb.)
	• [Thick Paper 2]: 161 to 216 g/m² (45 to 57 lb.)
	• [Thick Paper 3]: 161 to 216 g/m² (45 to 57 lb.)

Printer setup	Select [Paper Input] → [Paper Type: (tray name)] → [Thick Paper 1]. Select [Paper Input] → [Paper Type: Bypass Tray] → [Thick Paper 2] to [Thick Paper 3]
Printer driver setup	Select [Thick Paper 1] to [Thick Paper 3] in [Paper Type].
Supported paper feeding tray	[Thick Paper 1]: Any input tray can be used. [Thick Paper 2] and [Thick Paper 3]: Bypass tray
Paper capacity	 Bypass tray: 40 for [Thick Paper 1], 20 for [Thick Paper 2] and [Thick Paper 3] Make sure paper is not stacked higher than the upper limit mark (▼) inside the tray. When using the bypass tray, make sure paper is not stacked higher than the paper guides inside it.
Duplex printing	 [Thick Paper 1]: Supported [Thick Paper 2,] [Thick Paper 3]: Not supported
Additional cautions	 Print speed is slightly slower than when using plain paper. When printing on the reverse side of thick paper that is already printed on, select [Paper Type: (tray name)] → [Thick 1:Dup.Back1] to [Thick 1:Dup.Back3] using control panel or printer driver.

Thin paper

Paper thickness	52 to 60 g/m² (14 to 16lb.)
Printer setup	Select [Paper Input] → [Paper Type: (tray name)] → [Thin Paper].
Printer driver setup	Select [Thin Paper] in [Paper Type].
Supported paper feeding tray	Bypass tray
Paper capacity	Make sure paper is not stacked higher than the upper limit mark (▼) inside the tray. When using the

	bypass tray, make sure paper is not stacked higher than the paper guides inside it.
Duplex printing	Not supported

OHP transparencies

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

Letterhead

Printer setup	Select [Paper Input] → [Paper Type: (tray name)] → [Letterhead].
Printer driver setup	Select [Letterhead] in [Paper Type].

Supported paper feeding tray	Any input tray can be used.
Paper capacity	Make sure paper is not stacked higher than the upper limit mark (▼) inside the tray. When using the bypass tray, make sure paper is not stacked higher than the paper guides inside it.
Duplex printing	Supported
	Default: [Letterhead 1]
Letterhead setup	If the print quality needs to be improved, select [Maintenance] → [General Settings] → [Letterhead] → [Letterhead 1] to [Letterhead 3] to change the setting value to a different number depending on the paper thickness that you are using. High numbered settings allow thicker paper to be used, but are printed more slowly.
Additional cautions	 Paper tray: When loading paper vertically, make sure to set its header to the back; when horizontally, make sure to set its header to the left. Bypass tray: When loading paper vertically, make sure to set its header to the back; when horizontally, make sure to set its header to the right.

Label paper

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

	→ [Labels 1] to [Labels 3] to change the setting value to a different number depending on the paper thickness that you are using. High numbered settings allow thicker paper to be used, but are printed more slowly.
Additional cautions	 Print speed is slightly slower than when using plain paper. Shuffle paper before loading the stack onto the tray, so multiple sheets are not fed in together.

Special paper

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

Envelopes

Printer setup	Select [Paper Input] → [Paper Type: Bypass Tray] →[Envelope].
Printer driver setup	Select [Envelope Settings] in [Paper Type].
Supported paper feeding tray	Bypass tray
Paper capacity	Make sure paper is not stacked higher than the paper guides inside the bypass tray.

Duplex printing	Not supported
Envelope setup	Default: [Envelope 1]
	If the print quality needs to be improved, select a paper type that is appropriate for the thickness of the envelope you are using. Select [Maintenance] → [General Settings] → [Envelope] → [Envelope 1] to [Envelope 3].
	High numbered settings allow thicker paper to be used, but are printed more slowly.
Additional cautions	Load envelopes with the print side down, and the open end of the envelope facing out from the printer.
	 When printing on envelopes, set the envelope size using the printer driver or control panel. See "Loading Paper" for details.
	 Before loading envelopes, remove any air inside and make sure all edges are sharply creased. If envelopes are curled, straighten them before loading.
	If envelopes are curled when they are output, straighten them by rubbing.
	Depending on the printing environment, envelopes may be output with the edges wrinkled, with toner marks on the back, or blurred. In addition, when printing solid black areas, streaks may appear where two envelopes touch.
	Depending on the type of envelope or printing environment, envelopes might be output creased or printed improperly. In such cases, try changing the loading orientation.

■ Reference

• p.89 "Loading Paper"

5

Paper Not Supported by This Printer



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

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

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



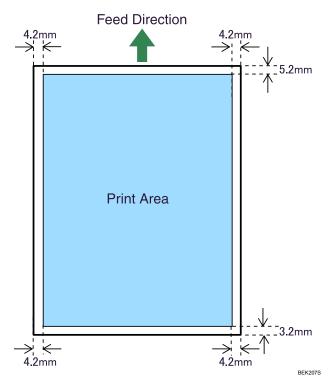
• Even if paper is adequate for the printer, poorly stored paper can cause paper misfeeds, print quality degradation, or malfunctions.

Print Area

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

The following diagram shows the print area for this printer.

Paper



U Note

- While printing may be possible on the entire page depending on the settings of the printer driver or print conditions, the quality cannot be guaranteed for the 5.2 mm (0.21 inches) margin of the upper side, the 4.2 mm (0.17 inches) margins of the right and left sides, and the 3.2 mm (0.13 inches) margin of the lower side.
- The print area of long paper is restricted to 600 mm (23.62 inches) long in the feed direction.

5

Loading Paper

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

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

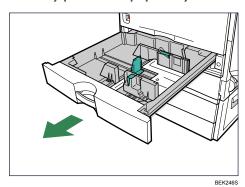
500-sheet Paper Feed Trays

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

The same procedure can be used for all trays. Tray 1 is used as an example.

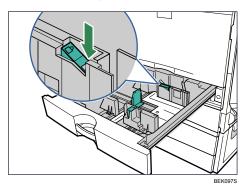


- Make sure paper is not stacked higher than the upper limit mark inside the paper tray. Paper misfeeds
 might occur.
- Do not mix different types of paper in the same paper tray.
- During printing, do not open or close the printer covers or bypass tray, or pull out or push in the paper tray.
- 1. Carefully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

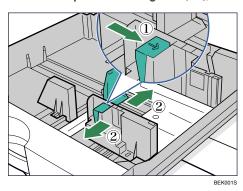


When printing using the bypass tray, do not pull out the paper tray.

2. Unlock the side guides.

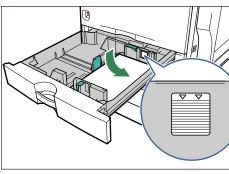


3. Pinch the clip on the side guide (\bigcirc), and match the guides to the paper size (\bigcirc).



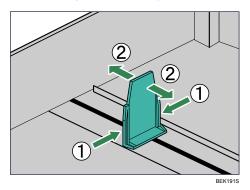
4. Align and load paper in the tray with the print side up.

You can load up to 550 sheets in each tray.



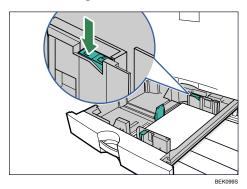
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5. Pinch the clips on the end guide ($\widehat{\mathbb{Q}}$), and match the guide to the paper size ($\widehat{\mathbb{Q}}$).



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

6. Lock the side guides.



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

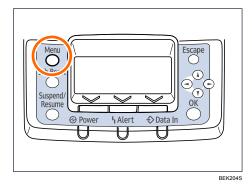
If you push the tray forcefully, the paper guides might move.

Reference

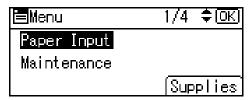
 For details about types of paper supported by this printer, see p.77 "Supported Paper for Each Tray".

Setting paper size not selected automatically

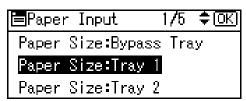
Set the paper size using the control panel when loading paper whose size cannot be selected automatically.



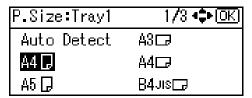
2. Press the [♥] or [♠] key to select [Paper Input], and then press the [OK] key.



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



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

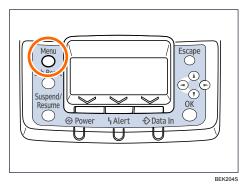


About two seconds later, the display returns to the [Paper Input] screen.

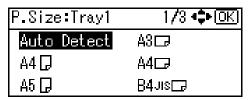
5. Press the [Menu] key.

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

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



- 7. Press the [♥] or [▲] key to select [Paper Input], and then press the [OK] key.
- 8. Press the [▼] or [▲] key to select [Paper Size: Tray 1], and then press the [OK] key.
- 9. Select [Auto Detect] using the scroll keys, and then press the [OK] key.



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

10. Press the [Menu] key.

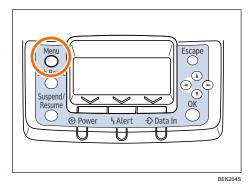
The display returns to the initial screen.

Setting custom size paper

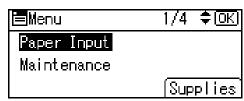
Set the custom paper size using the control panel when loading custom size paper.



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



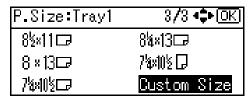
2. Press the [♥] or [♠] key to select [Paper Input], and then press the [OK] key.



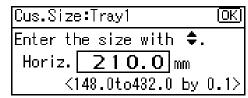
3. Press the [▼] or [▲] key to select [Paper Size: (tray name)], and then press the [OK] key. For example, [Paper Size: Tray 1] is selected for Tray 1 as shown.



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

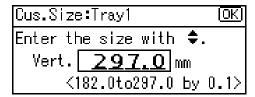


5. Press the $[\P]$ or $[\P]$ key to enter the horizontal value, and then press the [OK] key.



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

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



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

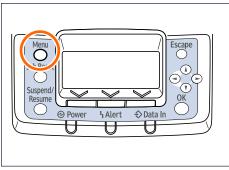
The settings appear and about two seconds later, the display returns to the [Paper Input] screen.

7. Press the [Menu] key.

The display returns to the initial screen.

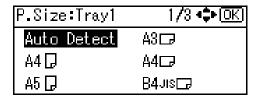
If you want to return the settings to [Auto Detect], load paper into the paper tray, and follow the procedure below.

8. Press the [Menu] key.



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- 9. Press the [▼] or [▲] key to select [Paper Input], and then press the [OK] key.
- 10. Press the [▼] or [▲] key to select [Paper Size: Tray 1], and then press the [OK] key.
- 11. Select [Auto Detect] using the scroll keys, and then press the [OK] key.



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

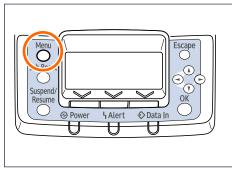
12. Press the [Menu] key.

The display returns to the initial screen.

Specifying a paper type

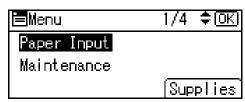
This section describes how to specify a paper type. You can improve printer performance by selecting the optimum paper type for the tray.

1. Press the [Menu] key.

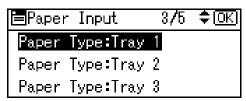


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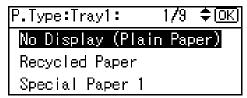
2. Press the [▼] or [▲] key to select [Paper Input], and then press the [OK] key.



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



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



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

5. Press the [Menu] key.

The display returns to the initial screen.





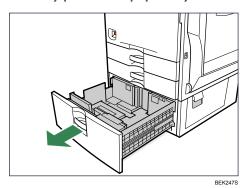
- The tray does not support envelopes and OHP transparencies.
- Duplex printing is not supported for the following paper types: labels, thin paper, cardstock, thick paper ([Thick Paper 2], [Thick Paper 3]), the reverse side of thick paper ([Thick 2:Dup.Back], [Thick 3:Dup.Back]).

2000-sheet Paper Feed Unit

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



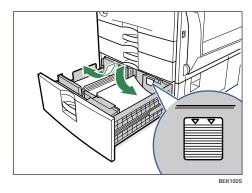
- Make sure paper is not stacked higher than the upper limit mark inside the paper tray. Paper misfeeds
 might occur.
- Do not mix different types of paper in the same paper tray.
- During printing, do not open or close the printer covers, bypass tray, or paper tray.
- Make sure to align paper and push it neatly to both sides of the tray. If you do not, it can cause a
 paper misfeed.
- The paper tray guides are fixed at A4 \square (\square 20-240 \vee) or 8 $^1/_2 \times 11$ (Letter) \square (\square 120 \vee 1) size positions. However, you can switch the setting between A4 \square and 8 $^1/_2 \times 11$ (Letter) \square . If you wish to use a paper size other than the default, contact your sales or service representative.
- 1. Carefully pull out the paper tray until it stops.



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

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

You can load up to 1000 sheets in each side.



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

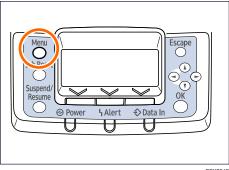


• For details about types of paper supported by this printer, see p.77 "Supported Paper for Each

Specifying a paper type

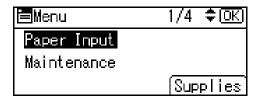
This section describes how to specify a paper type. You can improve printer performance by selecting the optimum paper type for the tray.

1. Press the [Menu] key.

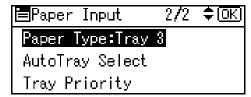


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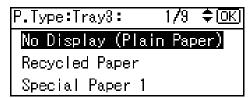
2. Press the [♥] or [♠] key to select [Paper Input], and then press the [OK] key.



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



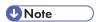
4. Press the [♥] or [▲] key to select the paper type that is loaded, and then press the [OK] key.



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

5. Press the [Menu] key.

The display returns to the initial screen.



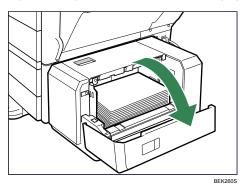
- The tray does not support envelopes and OHP transparencies.
- Duplex printing is not supported for the following paper types: labels, thin paper, cardstock, thick paper ([Thick Paper 2], [Thick Paper 3]), the reverse side of thick paper ([Thick 2:Dup.Back], [Thick 3:Dup.Back]).

1200-sheet Paper Feed Unit

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

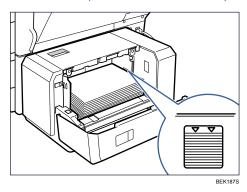


- Align the paper stacks and load them against the left and right walls, or a paper misfeed might occur.
- The tray can hold up to 1,200 sheets of paper. Do not stack paper over the limit mark.
- The paper tray guides are fixed at A4D (220-240V) or 81/2 × 11 (Letter)D (120V) size positions. However, you can switch the setting between A4D, 81/2 × 11 (Letter)D, or B5 JISD. If you wish to use a paper size other than the default, contact your sales or service representative.

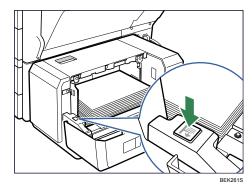


2. Align and load paper in the tray along the edge on the back with the print side down.

You can load up to 1200 sheets in the tray.



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



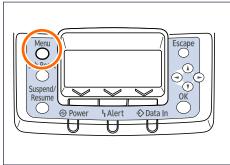
- 4. Load paper by repeating steps 2 and 3.
- 5. Close the cover of the 1200-sheet paper feed unit.

5

Specifying a paper type

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

1. Press the [Menu] key.



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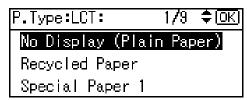
2. Press the [▼] or [▲] key to select [Paper Input], and then press the [OK] key.



3. Press the $[\P]$ or [A] key to select [Paper Type: LCT], and then press the [OK] key.



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



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

5. Press the [Menu] key.

The display returns to the initial screen.



• The tray does not support envelopes and OHP transparencies.

3:Dup.Back]).

Bypass Tray

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

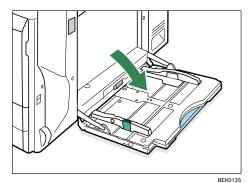
Loading standard size paper



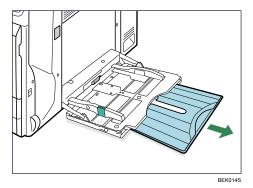
- Shuffle paper before loading the stack onto the tray, so multiple sheets are not fed in together.
- Set the size and direction of the loaded paper on the control panel or with the printer driver. Make sure the settings do not conflict. Otherwise, the paper may jam or the print quality may be affected.

· Duplex printing is not supported for the following paper types: labels, thin paper, cardstock, thick paper ([Thick Paper 2], [Thick Paper 3]), the reverse side of thick paper ([Thick 2:Dup.Back], [Thick

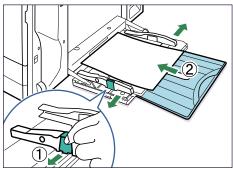
- Load paper with the print side down and in the short-edge feed direction.
- The bypass tray does not support duplex printing.
- When setting long paper to the bypass tray, support it with your hand to ensure it is fed properly.
- Paper feeding process or image quality varies depending on the paper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



2. If you load paper longer than A4D, pull out the bypass tray extension.



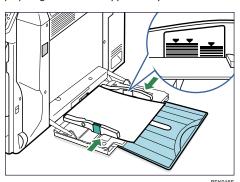
3. Slide the side guides outward (\mathbb{Q}), and then load paper with the print side down (\mathbb{Q}), flush against the printer.

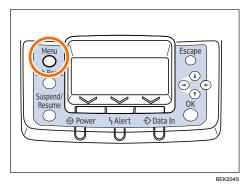


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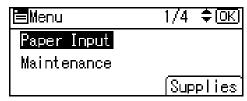
4. Adjust the side guides to fit the paper width.

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





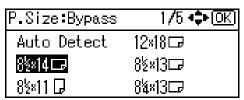
6. Press the [♥] or [♠] key to select [Paper Input], and then press the [OK] key.



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



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



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

9. Press the [Menu] key.

The display returns to the initial screen.



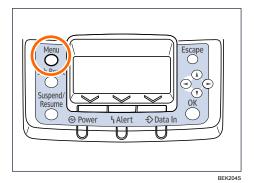
- Make sure paper is not stacked higher than the paper guides inside the bypass tray.
- Be sure to select the appropriate paper type when you load labels, thick paper, envelopes, or OHP transparencies in the bypass tray.

5

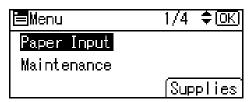
Setting custom size paper



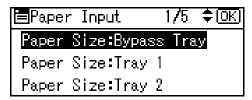
- When printing on custom size paper, specify the paper size using the control panel or printer driver.
- The custom size paper selected using the printer driver overrides that selected using the control panel.
 Do not configure settings using the control panel if you have already configured settings using the printer driver. However, when printing with a printer driver other than the RPCS printer driver, you must configure the settings using the control panel.
- The following is the range of paper size that can be set as custom size: 90 to 305 mm (3.55 to 12 inches) in width and 148 to 600 mm (5.83 to 23.62 inches) in length.
- The printer cannot print to custom size paper from applications that do not support custom size paper.
- 1. Press the [Menu] key.



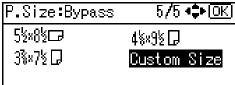
2. Press the [▼] or [▲] key to select [Paper Input], and then press the [OK] key.



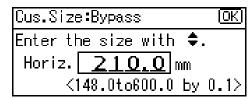
3. Press the [▼] or [▲] key to select [Paper Size: Bypass Tray,] and then press the [OK] key.



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

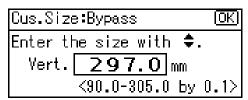


5. Press the [♥] or [▲] key to enter the horizontal value, and then press the [OK] key.



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

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



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

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

7. Press the [Menu] key.

The display returns to the initial screen.



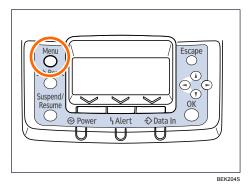
• Print quality may not be guaranteed for custom size paper that is wider than 297 mm (11.69 inches) in width or longer than 433 mm (17.05 inches) in length.

Specifying a paper type

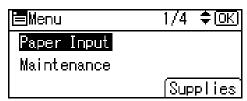
This section describes how to specify a paper type. You can improve printer performance by selecting the optimum paper type for the tray.



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



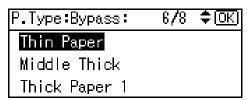
2. Press the [♥] or [♠] key to select [Paper Input], and then press the [OK] key.



3. Press the $[\P]$ or [A] key to select [Paper Type: Bypass Tray], and then press the [OK] key.



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



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

5. Press the [Menu] key.

The display returns to the initial screen.

6. Replacing Consumables

Adding Toner

∴ WARNING

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

ACAUTION

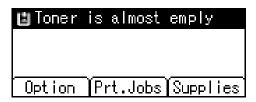
- Keep toner (used or unused) and toner containers out of reach of children. If a child swallows toner, consult a doctor immediately.
- If toner or used toner is inhaled, gargle with plenty of water and move into a fresh air environment.
 Consult a doctor if necessary.
- If toner or used toner gets into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

Mportant (

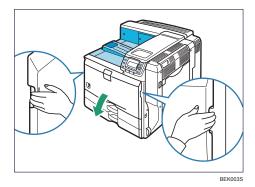
- When removing toner, be careful not to drop it.
- Do not forcefully push toner in.
- When handling toner, never stand them up on either end or position them upside down.
- Store toner in a cool dark place.
- Toner is a consumable and not covered by warranty. If there is a problem, contact the store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

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

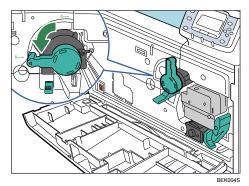
When the following message appears on the display, the toner should be replaced soon. Prepare a new toner.



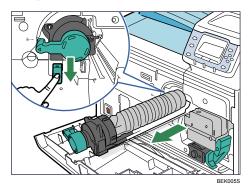
1. Holding the left and right side grips, carefully open the front cover.



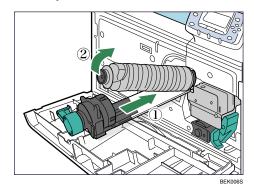
2. Turn the green handle counterclockwise until it clicks into place.



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



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

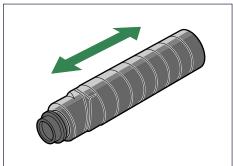


Do not shake the removed toner. Any remaining toner may leak.

Pull the toner out carefully to prevent leakage.

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

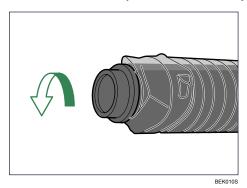
- 5. Take the new toner out of the box.
- 6. Shake the new toner back and forth five or six times.



BEK009S

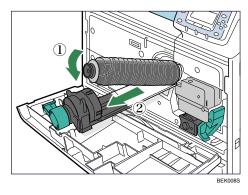
Even distribution of toner improves print quality.

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

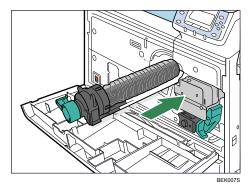


Do not shake or jar the toner after removing the black cap as toner can scatter easily.

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



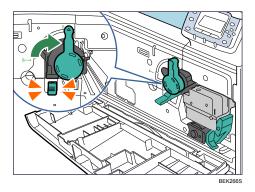
9. Push the toner holder back in carefully until it clicks into place.



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

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

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



11. Carefully close the front cover.

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

Replacing Maintenance Kit A

Replacing the Development Unit

∴ WARNING

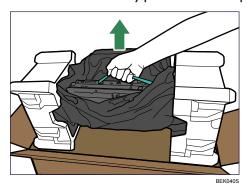
• Do not incinerate the development unit. Toner dust might ignite when exposed to an open flame. Dispose of the used development unit in accordance with local regulations.

CAUTION

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

Mportant (

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



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

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

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

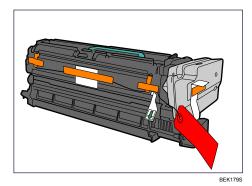
When the following message appears on the display, the Maintenance Kit A should be replaced soon. Prepare a new Maintenance Kit A.



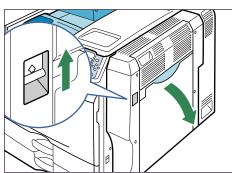
The box contains the following parts. Confirm that the contents of the box match the following lists. Check the contents of the box before replacing Maintenance Kit A.

Maintenance Kit SP 8200 A

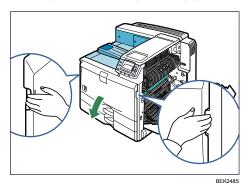
- Replacement Guide
- Leaflet about Unpacking the Development Unit
- Development Unit



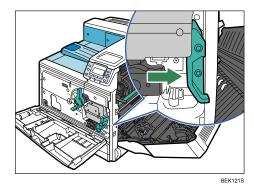
- Disposal Bag
 For packing the used development unit
- 1. Turn off the printer and unplug the power cord.
- 2. Push up the lever on the right side, and open the printer's right cover carefully.



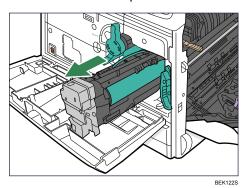
BEK198S



4. Unlock the right green lever.

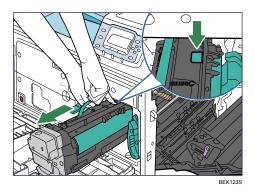


5. Slide the used development unit out slowly until it stops.



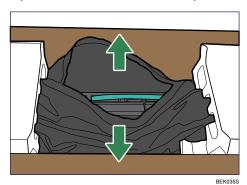
6. Holding the green handle, push the lock down, and then remove the development unit completely.

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



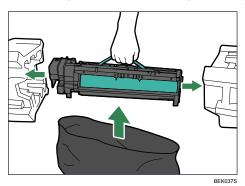
Be careful not to tilt or shake the unit. Otherwise, toner might scatter.

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



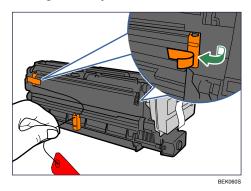
8. Holding the green handle, lift the development unit out of the box, without removing its protective materials.



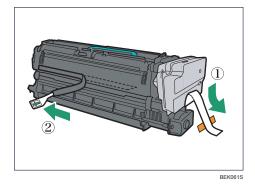


After taking the new development unit from the box, do not to shake or jar the unit.

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



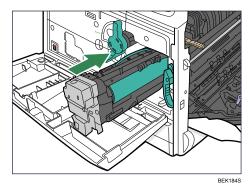
12. Remove the tape from the side of the development unit (\mathbb{Q}) , and then take out the transparent tape (\mathbb{Q}) .



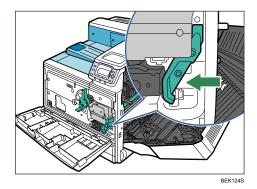
While pulling out the tape, keep the development unit horizontal. Tilting or shaking the unit might cause the toner to scatter.

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

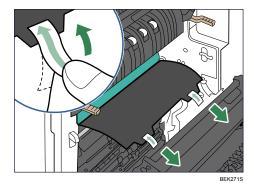
13. Slide the development unit into the printer completely.



14. Lock the right green lever back in place.



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



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

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

19. Turn on the printer.

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



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

Replacing Maintenance Kit B

ACAUTION

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

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

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

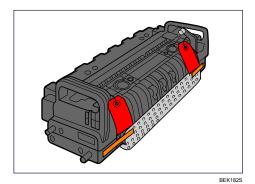
When the following message appears on the display, the Maintenance Kit B should be replaced soon. Prepare a Maintenance Kit B.



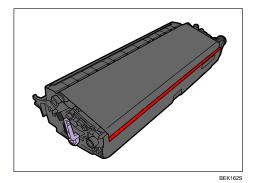
The box contains the following parts. Confirm that the contents of the box match the following lists. Check the contents of the box before replacing Maintenance Kit B.

Maintenance Kit SP 8200 B

- Replacement Guide
- Fusing Unit



Transfer Unit



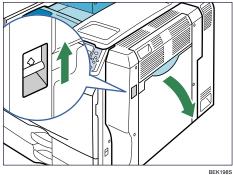
Replacing the Transfer Unit

MARNING

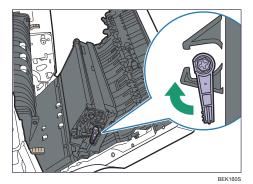
• Do not incinerate the transfer unit. Toner dust might ignite when exposed to an open flame. Dispose of the used transfer unit in accordance with local regulations.

Mportant !

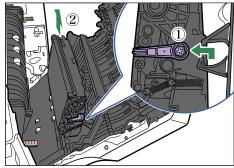
- If you attempt to start printing when the transfer unit is not installed correctly, the message "SC440" may appear on the display. If this happens, contact your sales or service representative.
- 1. Turn off the printer and unplug the power cord.
- 2. Push up the lever on the right side, and open the printer's right cover carefully.



3. Raise the purple lever inside the right cover.



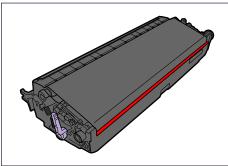
4. Holding both sides of the unit, lift the unit slightly and bring it towards the printer to unhook it from the right cover (1), and then take it out completely (2). Put the used transfer unit on paper or similar material to avoid dirtying your workspace.



BEK161S

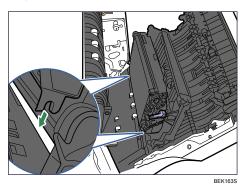
Be careful not to tilt or shake the unit. Otherwise, toner might scatter.

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

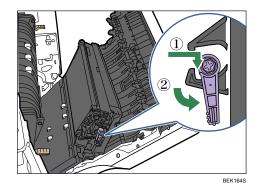


DEV160

6. Remove the desiccant from the transfer unit.



8. Return the purple lever back in place ($\widehat{\mathbb{Q}}$), and then lock the transfer unit ($\widehat{\mathbb{Q}}$).



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

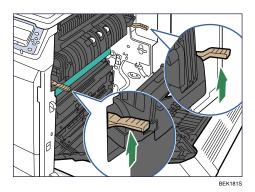
This completes transfer unit replacement. Leave the right cover open, and replace the fusing unit as shown below.



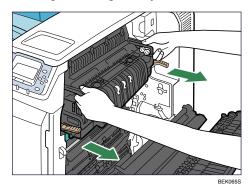
• If you cannot return the purple lever to its original position, raise the purple lever and remove the transfer unit. After that, try to install the transfer unit again.

Replacing the Fusing Unit

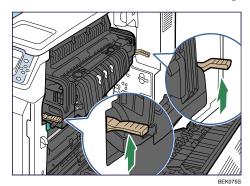
1. Raise the brown levers on both sides.

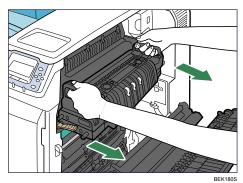


2. Holding the fusing unit by the handles, slowly pull out the fusing unit until it stops.

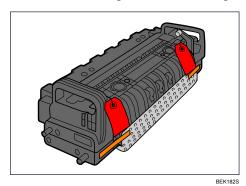


3. Raise the brown levers on both sides again.

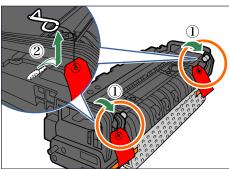




5. Take the new fusing unit out of the bag.

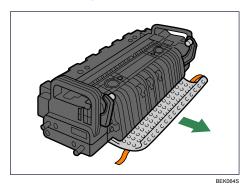


6. Pull down the levers on both sides of the unit (\mathbb{Q}) , turn the pins with a red tag toward you, and then pull them out (2).

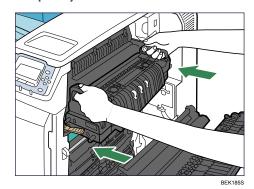


BEK063S

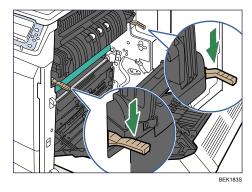
7. Remove the tapes from both sides and take out the protective material.



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



9. Lower the brown levers back in place.



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



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

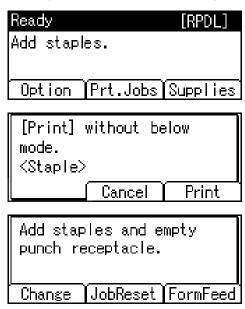
• Confirm that the "Replace Maintenance Kit B." message on the display has cleared. Replacing the Maintenance Kit B is finished.

Adding Staples



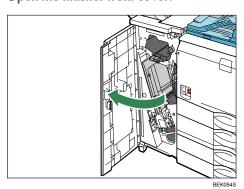
- Be sure to use the approved staple cartridges. Stapling failures or jams may occur if you use a staple cartridge other than that recommended.
- After the cartridge is replaced, the next five to seven sheets will not be stapled until the finisher has
 adjusted the position of the staple sheet.

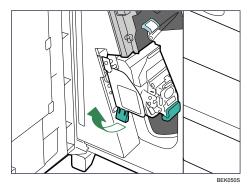
Add staples to the finisher if the following messages appear on the display:



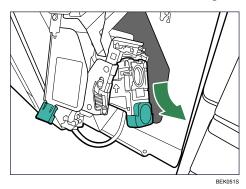
When the 1000-sheet Finisher is Installed

1. Open the finisher front cover.

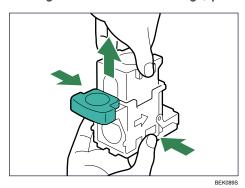




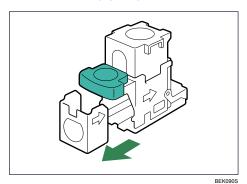
3. Hold and lift the lever on the cartridge and pull the cartridge gently out of the staple unit.



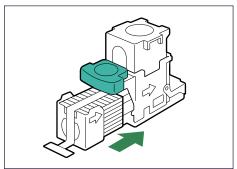
4. Pushing both sides of the cartridge, pull out the upper unit.



5. Take out the empty staple case.

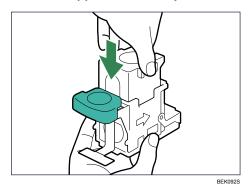


6. Push the new case into the cartridge until it clicks.



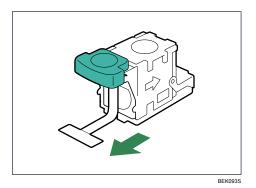
BEK091S

7. Lower the upper unit carefully.

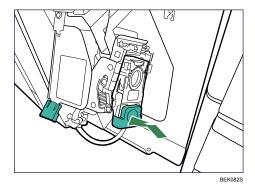


8. Pull the ribbon out of the staple case that you attached.

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



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



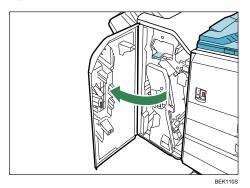
- 10. Return the staple unit to its original position.
- 11. Close the front cover of the finisher.



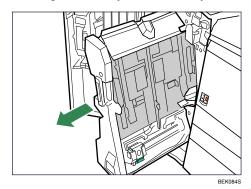
• If you cannot pull out the upper unit there are staples remaining inside the cartridge. Use all the staples before replacing the cartridge.

When the 2 Tray Finisher is Installed

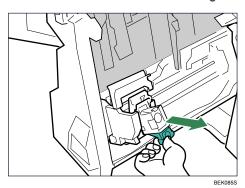
1. Open the front cover of the finisher.

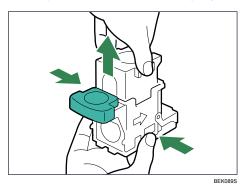


2. Holding the lever, pull out the staple unit.

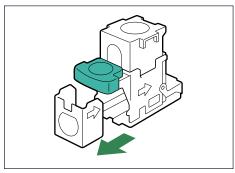


3. Hold and lift the lever on the cartridge and pull the cartridge gently out of the staple unit.



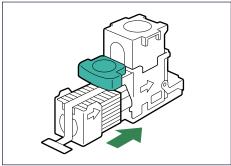


5. Take out the empty staple case.



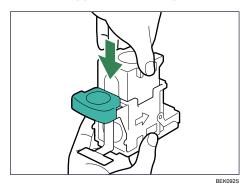
BEK090S

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



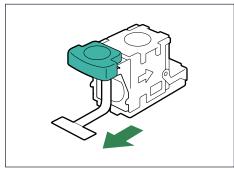
BEK091S

7. Lower the upper unit carefully.



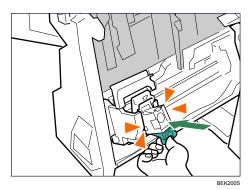
8. Pull the ribbon out of the staple case that you attached.

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



BEK093S

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



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



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

7. Cleaning the Printer

Cautions When Cleaning

MARNING

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

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

Clean the printer periodically to maintain fine printing.

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

☆ Important

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

Cleaning the Friction Pads

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



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

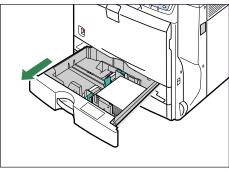


• If misfeeds or multi-feeds of paper occur after cleaning the friction pad, contact your sales or service representative.

500-sheet Paper Trays

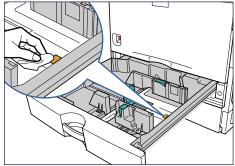
The same procedure is applied to clean the friction pads of standard paper trays and 1000-sheet paper feed unit. Tray 1 is used as an example.

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



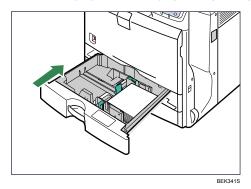
BEK034S

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



BEK265

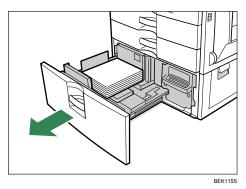
4. Reload the paper into the paper tray and push it gently into the printer until it stops.



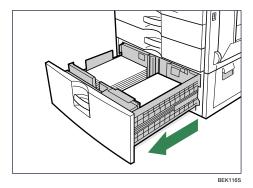
Do not slide the paper tray in with force. If you do, the paper guides might move.

2000-sheet Paper Feed Unit

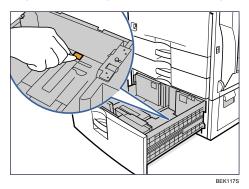
1. Carefully pull out the paper tray until it stops.



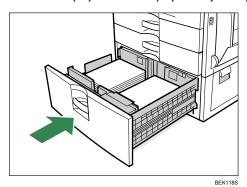
2. Holding the lever on the right side of the tray, pull the tray completely out.



3. Remove the loaded paper.

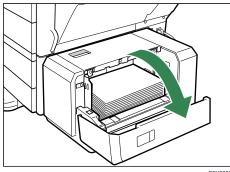


5. Reload the paper into the paper tray and push it gently into the printer until it stops.



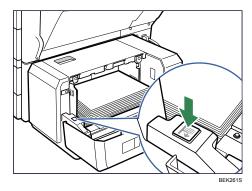
1200-sheet Paper Feed Unit

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



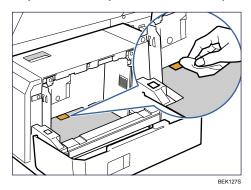
BEK260S

2. Press the [Down] key.

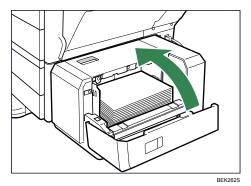


The bottom plate is moving down.

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



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



Cleaning the Registration Roller

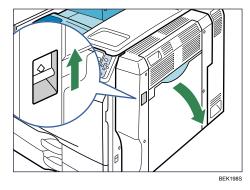
If types of paper other than the standard types are used, specks of paper may stick around the registration roller, causing problems. Clean the registration roller if white dots appear on prints.

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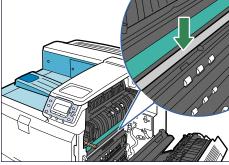
• The inside of this printer becomes very hot. Do not touch parts labeled "△" (indicating a hot surface). Touching these parts will result in burns.

Important

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

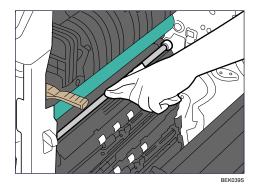


The registration roller is installed as shown below.



BEK038S

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



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

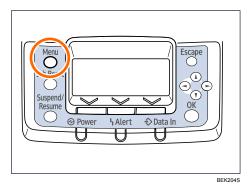
8. Adjusting the Printer

Adjusting Image Density

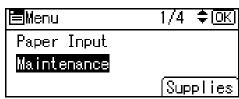
This section describes how to adjust image density.

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

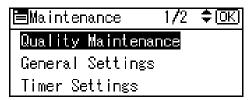
1. Press the [Menu] key.



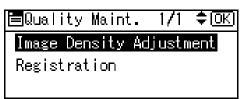
2. Press the $[\P]$ or $[\P]$ key to select [Maintenance], and then press the [OK] key.



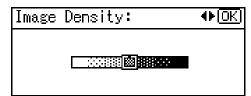
3. Press the [▼] or [▲] key, and then press the [OK] key to select [Quality Maintenance].



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



5. Press the $[\,^{\blacktriangledown}]$ or $[\,^{\blacktriangle}]$ key to select the image density, and then press $[\,^{\blacktriangledown}]$.



Enter the value between -3 and 3.

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

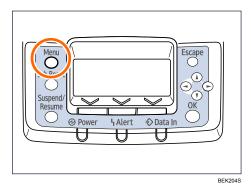
6. Press the [Menu] key.

The display returns to the initial screen.

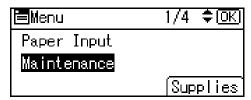
Adjusting Printing Position

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

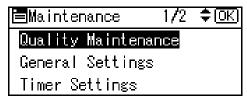
1. Press the [Menu] key.



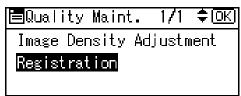
2. Press the [▼] or [▲] key to select [Maintenance], and then press the [OK] key.



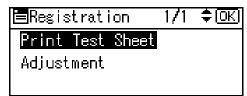
3. Press the [▼] or [▲] key, and then press the [OK] key to select [Quality Maintenance].



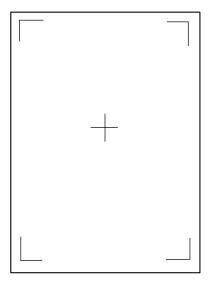
4. Press the $[\P]$ or $[\P]$ key to select [Registration], and then press the [OK] key.



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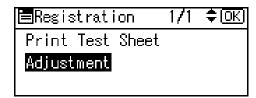


- 6. Press the [▼] or [▲] key to select the tray you want to adjust, and then press the [OK] key.
- 7. Print the test sheet to preview the settings.

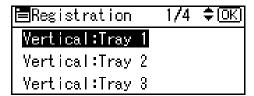


Use this sheet to confirm the current print position.

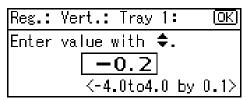
- 8. Press the [Escape] key to return to the registration menu.
- 9. Press the [♥] or [▲] key to select [Adjustment], and then press the [OK] key.



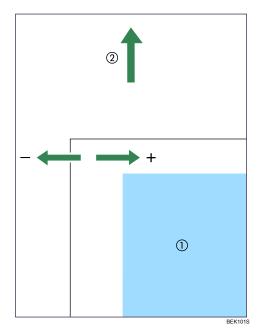
10. Press the [▼] or [▲] key to select the tray you want to adjust, and then press the [OK] key.



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



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



- 1): Print Area
- 2): Paper Feed Direction
- 12. Press the [OK] key to return to the [Registration] menu.
- 13. Print the test sheet to confirm the adjustment result.
- 14. Press the [Menu] key.

The display returns to the initial screen.

9. Troubleshooting

Error and Status Messages Appears on the Control Panel

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

Status Messages (in alphabetical order)

Energy Saver

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

Hex Dump Mode

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

Please wait.

This message may appear for a few seconds. It means the printer is preparing, cooling down the fusing unit, initializing the development unit, loading toner, or executing maintenance operations. Wait a while.

Printing...

The printer is printing. Wait a while.

Printing Suspended

Printing is suspended. Turn off the printer, and turn it on again to recover.

Ready

This is the default ready message. The printer is ready for use. No action is required.

Resetting Job...

The printer is resetting jobs. Wait a while.

Setting change...

The printer is changing settings. Wait a while.

Set the Fusing Unit correctly.

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

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

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

Updating Certificate...

The printer is updating @Remote certificate.

Waiting for print data...

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

Alert Messages (in alphabetical order)

Cannot connect with DHCP server.(101/201)

Cannot obtain IP address from DHCP server. Contact the network administrator.

Cannot connect with NetWare print server. (107/207)

Connection with NetWare print server is unavailable. Contact the network administrator.

Cannot connect with NetWare server.(106/206)

Connection with NetWare server is unavailable. Contact your network administrator.

Cannot print.

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

Check network settings.(103/203)

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

Connect failed:Wireless Card Turn power off, check card

Check there is a wireless LAN board installed.

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

Install the correct board properly.

For details, see p.37 "Installing the Interface Units".

Ethernet Board Error

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

IPv6 Address already exists Link-local Address(109/209)

The same IPv6 address already exists. Contact your network administrator.

IPv6 Address already exists Stateless Address(109/209)

The same IPv6 address already exists. Contact your network administrator.

IPv6 Address already exists Manual Config. Address (109/209)

The same IPv6 address already exists. Contact your network administrator.

Option RAM Error

The printer cannot detect an optional SDRAM module. It may be incorrectly installed.

Check if it is installed properly.

For details about installing the unit, see p.30 "Installing the Memory Expansion Units".

Parallel I/F Error

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

For details, see p.37 "Installing the Interface Units".

Printer Font Error.

There are problems with the printer's font file.

Contact your sales or service representative.

Problem with Hard Disk Please call service.

The printer cannot detect a hard disk. It may be incorrectly installed.

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

For details about installing the unit, see p.37 "Installing the Interface Units".

Problem:Wireless board Please call service.

The printer cannot detect a wireless board failure. It may be incorrectly installed.

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

For details about installing the unit, see p.37 "Installing the Interface Units".

Problem:Wireless card Please call service.

The printer cannot detect a wireless card. It may be incorrectly installed.

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

For details about installing the unit, see p.37 "Installing the Interface Units".

This NetBIOS name is already in use.(108/208)

The NetBIOS name specified for the machine is already in use by another device on the network. Contact your network administrator.

The same IPv4 Address already exists.(102/202)

The IPv4 address specified for the machine is already in use by another device on the network. Contact the network administrator.

The selected job has already been printed or deleted.

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

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

WPA Auth. incomplete.(211)

WPA authentication could not complete. Contact your network administrator.



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

Panel Tones

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

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



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

Is the power on?

Confirm that the cord is securely plugged into both the power outlet and the printer.

Turn on the power.

Does the Alert indicator stay red?

If so, check the error message on the display and take the required action.

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

Is paper loaded?

Load paper into the paper tray or onto the bypass tray.

See p.89 "Loading Paper".

Can you print a configuration page?

If you cannot print a configuration page, it probably indicates a printer malfunction. Contact your sales or service representative.

See "Test Printing", Quick Installation Guide.

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

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

Are you using the correct interface cable?

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

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

See p.206 "Specifications".

Is the Data In indicator blinking or lit after starting the print job?

If not blinking or lit, the data is not being sent to the printer.

If the printer is connected to the computer using the interface cable

Check the port connection setting is correct. For details about checking the port connection, see p.157 "Checking the Port Connection".

Network Connection

Contact your network administrator.

How is the signal strength when using the wireless LAN?

Ad-hoc Channel

Either move to a location where the signal is good, or remove obstructions.

Q

Infrastructure Mode

Check the signal status in the [Wireless LAN] menu on the control panel. If the signal is poor, either move to a location where it is good, or remove obstructions.

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

Checking the Port Connection

*(n) varies depending on the number of printers connected. This section describes how to check the print port when the Data In indicator does not light up or blink.

Check if the print port setting is correct. When it is connected using a parallel interface, connect it to LPT1 or LPT2.

Windows 2000

- 1. Click the [Start] button, point to [Settings], and then click [Printers].
- 2. Click the icon of the machine. On the [File] menu, click [Properties].
- 3. Click the [Ports] tab.
- 4. In the [Print to the following port(s)] list, confirm the correct port is selected.

Windows XP Professional or Windows Server 2003/2003 R2

- 1. Click the [Start] button, and then click [Printers and Faxes].
- 2. Click the icon of the machine. On the [File] menu, click [Properties].
- 3. Click the [Ports] tab.
- 4. In the [Print to the following port(s)] list, confirm the correct port is selected.

Windows XP Home Edition

- 1. Click the [Start] button, and then click [Control Panel].
- 2. Click [Printers and Other Hardware].
- 3. Click [Printers and Faxes].
- 4. Click the icon of the machine. On the [File] menu, click [Properties].
- 5. Click the [Ports] tab.
- 6. In the [Print to the following port(s)] list, confirm the correct port is selected.

Windows Vista

- 1. Click the [Start] button, and then click [Control Panel].
- 2. Click [Printers].

- 3. Click the icon of the machine. On the [Organize] menu, click [Properties].
- 4. Click the [Ports] tab.
- 5. In the [Print to the following port(s)] list, confirm the correct port is selected.

Printing Problems

Toner smears appear on the print side of the page.

- The paper setting may not be correct. For example, although you are using thick paper, the setting for thick paper may not be set. Check the paper setting of the control panel and printer driver.
 - See p.77 "Paper and Other Media" and the printer driver Help.
- When "Replace Maint. Kit A soon." or "Replace Maintenance Kit A." appears on the display, replace the photo conductor unit.
 - See p.114 "Replacing Maintenance Kit A".
- Confirm that the paper is not curled or bent. Envelopes can be curled easily. Flatten paper before loading.
 - See p.80 "Paper Recommendations".

Paper jams occur frequently.

- · Check the following:
 - Paper guides are set correctly, leaving no gaps between paper guides and paper.
 - The side guides of the paper tray are locked.
 - Paper guides are not set too tight. If too tight, re-position the guides so that they gently touch the loaded paper.
 - The top of the paper stack is not higher than the limit mark inside the tray, or side guides of the bypass tray.
 - See p.89 "Loading Paper".
- If paper misfeeds every time duplex print is performed, check the following items.
 - The end guides of the paper tray are set correctly.
 - The loaded paper and the paper type set at the control panel match.
 For more solutions to this problem, see p. 198 "Duplex Print Always Misfeeds".
- Make sure that nothing is placed on the finisher tray.
- The stapler cartridge may not be installed correctly.
- When printing on thick paper, it is recommended to load more than 20 sheets.
- If paper misfeeds occur regularly when printing from the bypass tray, the settings of the control panel and those of the printer driver may not match.
- Paper not suitable for printing is used. For example, paper may be too thick, too thin, bent or wrinkled, damp, or already been printed on.
 - See p.80 "Paper Recommendations".
- When loading paper, fan the paper well before loading.

Multiple pages are fed at once.

- · Check the following:
 - Paper guides are set correctly, leaving no gaps between paper guides and paper.
 - The side guides of the paper tray are locked.
 - Paper guides are not set too tight. If too tight, re-position the guides so that they gently touch the loaded paper.
 - The top of the paper stack is not higher than the limit mark inside the tray, or side guides of the bypass tray.

See p.89 "Loading Paper".

 Paper not suitable for printing is used. For example, paper may be too thick, too thin, bent or wrinkled, damp, or already been printed on.

See p.80 "Paper Recommendations".

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

Paper gets wrinkles.

- · Check the following:
 - Paper guides are set correctly, leaving no gaps between paper guides and paper.
 - The side guides of the paper tray are locked.
 - Paper guides are not set too tight. If too tight, re-position the guides so that they gently touch the loaded paper.
 - The top of the paper stack is not higher than the limit mark inside the tray, or side guides of the bypass tray.

See p.89 "Loading Paper".

 Paper not suitable for printing is used. For example, paper may be too thick, too thin, bent or wrinkled, damp, or already been printed on.

See p.80 "Paper Recommendations".

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

See p.121 "Replacing Maintenance Kit B".

The back of the paper is printed on.

• The paper has been loaded upside down.

Load paper in the 500-sheet paper trays or 2000-sheet paper feed unit with the print side up. Load paper in the 1200-sheet feed unit or bypass tray with the print side down.

See p.89 "Loading Paper".

Duplex printing cannot be performed.

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

- Duplex printing is not supported for the following paper types: labels, thin paper, cardstock, OHP transparency, envelopes, thick paper ([Thick Paper 2], [Thick Paper 3]), the reverse side of thick paper ([Thick 2:Dup.Back], [Thick 3:Dup.Back]).
- Paper heavier than 161 g/m² (40 lb.) is loaded. Change the paper for printing.

With Windows 2000/XP/Vista, Windows Server 2003/2003 R2, when doing aggregate prints or bound prints.

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

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

Paper is not fed from the selected tray.

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

See the printer driver Help.

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

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

See the printer driver Help.

It takes too much time to turn on the printer.

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

It takes too much time to resume printing.

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

It takes too much time to complete the print job.

 Photographs and other data intensive pages take a long time for the printer to process, so simply wait when printing such data.

Changing the settings with printer driver may help to speed up printing.

See the printer driver Help.

- The data is so large or complex that it takes time to process it. If the Data In indicator is blinking, the
 data is being processed. Just wait until it resumes.
- If "Please wait." appears on the display, the printer is now warming up. Wait for a while.

Images are cut off, or excess pages are printed.

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

See the printer driver Help.

Photo images are coarse.

Some applications lower the resolution for making prints.

Raise the resolution in the settings for that application.

Fine dot pattern does not print.

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

Black gradation is not natural.

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

Solid lines are printed as broken lines.

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

Images are printed at an angle

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

Images appear only partially.

• The Paper is damp. Use paper that has been stored properly.

See p.80 "Paper Recommendations".

Toner is almost depleted. When the "Add toner" or "Toner is almost empty." message appears on the
display panel, or the toner indicator on the initial screen seems empty, replace the toner.

See p.109 "Adding Toner".

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

See p.114 "Replacing Maintenance Kit A".

Q

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

The whole printout is blurred.

- Paper is damp. Use paper that has been stored properly.
 - See p.80 "Paper Recommendations".
- If you select [Toner saving] on the [Print Quality] tab in the printer properties dialog box, printing is generally less dense.
 - See the printer driver Help.
- Toner is almost depleted. When the "Add toner" or "Toner is almost empty." message appears on the display panel, or the toner indicator on the initial screen seems empty, replace the toner.
 - See p.109 "Adding Toner".
- When "Replace Maint. Kit A soon." or "Replace Maintenance Kit A." appears on the display, replace the photo conductor unit.
 - See p.114 "Replacing Maintenance Kit A".
- Condensation may have collected. If rapid change in temperature or humidity occurs, use this printer only after it has acclimatized.

White streaks appear.

- Toner is almost depleted. When the "Add toner" or "Toner is almost empty." message appears on the display panel, or the toner indicator on the initial screen seems empty, replace the toner.
 - See p.109 "Adding Toner".
- When "Replace Maint. Kit A soon." or "Replace Maintenance Kit A." appears on the display, replace the photo conductor unit.
 - See p.114 "Replacing Maintenance Kit A".
- The paper is damp. Use paper that has been stored at a suitable temperature and humidity.
- Specks of paper may be attached to the registration roller. Clean the registration roller.
 For details, see p.142 "Cleaning the Registration Roller".

White rivers appear.

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

The backs of printed sheets are blemished.

- When removing a jammed sheet, the inside of the printer may have become dirtied. Print several sheets until they come out clean.
- If document size is larger than paper size, e.g. A4 document on B5 paper, the back of the next printed sheet may be dirtied.

Printed pages are faint, or have white streaks.

• If 📥 is flashing, toner is almost depleted. Add toner.

See p. 109 "Adding Toner".

Printed pages are faint.

 The appropriate paper is not loaded. (Printed pages may be faint when printing to coarse or coated paper.)

For details, see p.204 "Consumables".

If rubbed with your finger, it smears out.

 The setting of the paper may not be correct. For example, although thick paper is used, the setting for thick paper may not be set.

On the [Menu] tab of the printer driver, set [Paper Input] to [Thick Paper].

• Check the paper settings of this printer.

See p.80 "Paper Recommendations".

• Check the paper settings of the printer driver.

See the printer driver Help.

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

See p.121 "Replacing Maintenance Kit B".

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

• The registration roller is dirty. Clean the registration roller.

See p.142 "Cleaning the Registration Roller".

When printing on plain paper, white dots are obvious.

The registration roller is dirty. Clean the registration roller.

See p. 142 "Cleaning the Registration Roller".

PDF Direct Print is not executed (PDF file is not printed).

When printing a PDF with a password set, set the password of the PDF file using the [Change PDF Password] menu in [PDF Menu] or Web Image Monitor. For [Change PDF Password], see the "Print Settings Menu", Software Guide.

For Web Image Monitor, see Web Image Monitor Help.

- PDF files not allowed to be printed by the PDF file security setting cannot be printed.
- Highly compressed PDFs cannot be printed using PDF Direct Print.

Open the relevant application and print the PDF file using the printer driver.

Set the file format to standard PDF.

As a result of printing using PDF Direct Printing, characters are missing or misshapen.

• Before printing, embed the font in the PDF file to be printed.

The paper size appears on the control panel and printing is not performed with PDF Direct Print.

When using PDF Direct Print, printout requires paper set within the PDF file. When a message indicating
a paper size appears, either place the indicated size in the paper tray, or perform Form Feed.

Also, if [Sub Paper Size] in the [System] Menu is set to [Auto], printing is performed assuming letter size and A4 size to be the same size. For example, When a PDF file set to A4 size paper is printed using PDF Direct Print and letter size paper is installed in the paper tray, the file will print out. This applies similarly to the opposite case.

With Windows 2000/XP/Vista, Windows Server 2003/2003 R2, attached options are not detected.

 The computer and printer are not in two-way communication. You must configure attached options in the printer properties.

For details, see the printer driver Help.

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

Additional Troubleshooting

€ Important

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

Strange noise is heard.

 If a supply was recently replaced or an option attached in the area the strange noise is coming from, check the supply or option is properly attached. If the strange noise persists, contact your sales or service representative.

No e-mail is received when an Alert occurs, and after resolving an Alert.

- Confirm [Auto Email Notify] is active in the [System] Menu on the Control Panel. See "System Menu", Software Guide.
- Access the printer through the Web browser, log on as an Administrator on the Web Image Monitor, and then confirm the following settings in [Auto E-mail Notification]:
 - Device E-mail Address
 - Groups to Notify
 - Select Groups/Items to Notify

For details about the settings, see Web Image Monitor Help.

- Access the printer through the Web browser, log on as an Administrator on the Web Image
 Monitor, and then confirm the settings of the SMTP server in [E-mail]. For details about the settings,
 see Web Image Monitor Help.
- When the power is turned off before the e-mail is transmitted, the e-mail will not be received.
- Check the e-mail address set for the destination. Confirm the printer's operation history using the Web
 Image Monitor's System Log menu in [Network]. If the e-mail was sent but not received, it is possible
 the destination was incorrect. Also check the information concerning error mail from the e-mail server.
 The setting for [Auto Email Notify] on the System Menu was changed from [Off] to [On], but e-mail
 is not arriving.
- After changing the setting, turn the main unit's power off and then back on again.

Error notification e-mail was received, but no error-solved e-mail is received.

Check e-mail is set for sending using the Web Image Monitor's [Auto E-mail Notification] at the time
the error was fixed. You must click the [Edit] button of [Detailed Settings of Each Item] in [Auto E-mail
Notification], and set [Notify when error:] to [Occurs & Fixed] on the displayed screen.

For details about the settings, see Web Image Monitor Help.

Alert Resolving is set for sending e-mail, but no Alert-resolved e-mail is sent.

• If the power of the main unit is turned off after an Alert occurs, the Alert is resolved during the time the power is off: no Alert-resolved e-mail is sent.

Alert Occurrence and Alert Resolving are set for sending e-mail, but while no Alert Occurrence mail is received, Alert-resolved e-mail is received.

Alert-notification e-mail is not sent if the problem is resolved before sending. However, an Alert-resolved e-mail is sent.

Alert-notification level was changed, and e-mail stopped arriving.

• If an Alert-notification e-mail, set with the earlier notification level, arrives, later e-mail will not be sent, even if the notification level is changed after.

When no date information is included in sent e-mail, the mail server has a malfunction.

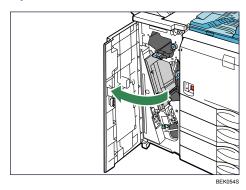
 Configure the setting for obtaining time information from the SNTP server. Refer to the Web Image Monitor's Help to the settings.

Removing Jammed Staples

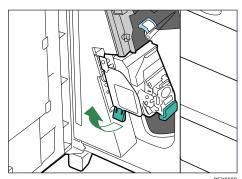
- Staples might be frequently jammed because of curled paper. In this case, try turning over the paper in the tray.
- After the cartridge is replaced, the next five to seven sheets of paper will not be stapled until the finisher
 has adjusted the position of the staple sheet.

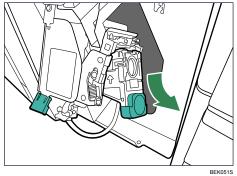
When the 1000-sheet Finisher is Installed

1. Open the finisher front cover.

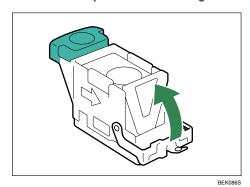


2. Lift the staple unit.

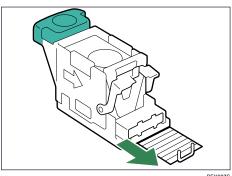




4. Raise the face plate of the cartridge.

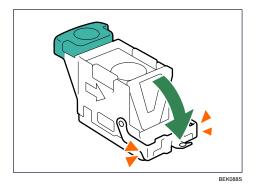


5. Holding the cartridge's face plate up, remove the jammed staples.

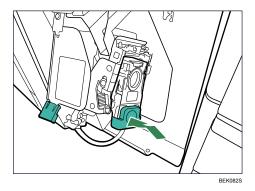


6. Return the face plate to its original position.

Make sure it clicks into place.



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

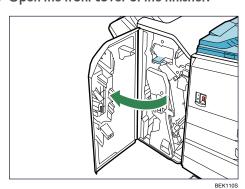


- 8. Return the staple unit to its original position.
- 9. Close the front cover of the finisher.

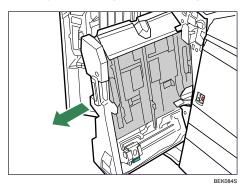
9

When the 2 Tray Finisher is Installed

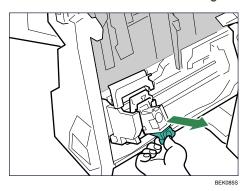
1. Open the front cover of the finisher.



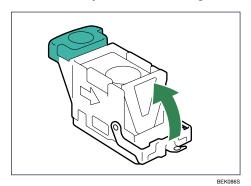
2. Holding the lever, pull out the staple unit.

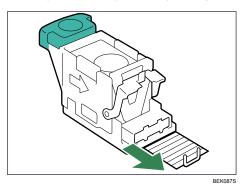


3. Hold and lift the lever on the cartridge and pull the cartridge gently out of the staple unit.



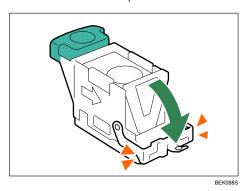
4. Raise the face plate of the cartridge.



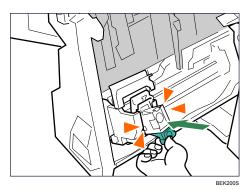


6. Return the face plate to its original position.

Make sure it clicks into place.



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



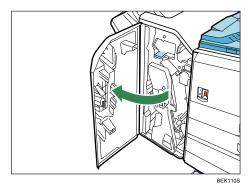
- 8. Return the staple unit to its original position.
- 9. Close the front cover of the finisher.

Removing Punch Waste

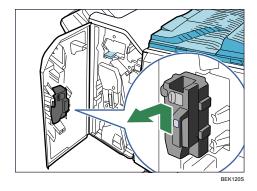
"The punch hole receptacle is full." or "Empty the punch receptacle." message appears, remove punch waste from the finisher. When these messages appear on the display, you cannot use the punch function.

When the 2 Tray Finisher is Installed

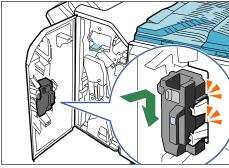
1. Open the front cover of the finisher.



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



3. Re-install the punch waste box.

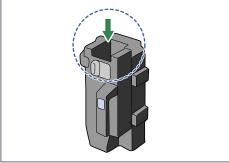


K126S

4. Close the front cover of the finisher.



- If you do not re-install the punch waste box in step 3, the message remains displayed.
- If the message remains displayed, re-install the punch waste box.
- The message might appear even when the punch waste box is not full. In this case, there may be some punch waste on the surface shown by the arrow. Remove the punch waste.



BEK131S

10. Removing Misfed Paper

Removing Misfed Paper

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

CAUTION

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

- Do not forcefully remove misfed paper, it may tear and torn pieces may remain inside the printer.
- When paper is misfed a number of times, the following are possible causes.
 - The control panel settings do not match the size or orientation of the loaded paper.
 - The friction pad is dirty.
- Misfed paper may be covered with toner. Be careful not to get toner on your hands or clothes.
- If paper is still misfed after you have checked the above-mentioned causes, contact your sales or service representative.

■ Reference

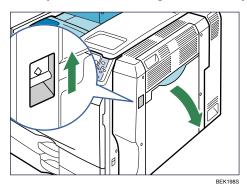
• p.138 "Cleaning the Friction Pads"

Paper Misfeed Message (A)

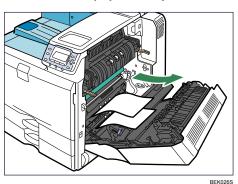
The "% A Open the part as shown and remove paper." error message appears when a paper misfeed occurs in the paper feed section.

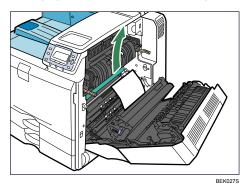


- The inside of this printer becomes very hot. Before removing paper around the fusing unit, wait until the temperature of the covers inside the fusing unit and duplex unit cool down.
- When a paper misfed (A) occurs, the paper tray is locked and cannot be pulled out. Do not forcefully
 pull out the tray.
- 1. Push up the lever on the right side, and open the printer's right cover carefully.

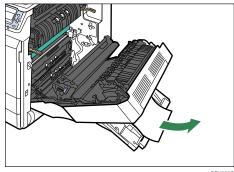


2. Remove misfed paper slowly.





4. Remove the paper slowly from the bypass tray.



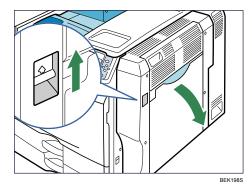
- BEK028S
- 5. Carefully close the right cover.
- 6. Carefully close the bypass tray.

Paper Misfeed Message (B)

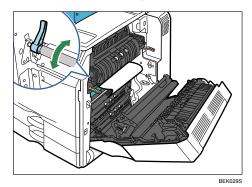
The "84 B Read instructions in Front Cover to remove." error message appears when a paper misfeed occurs in the paper feed section.



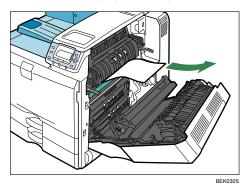
- The inside of this printer becomes very hot. Before removing paper around the fusing unit, wait until the temperature of the covers inside the fusing unit and duplex unit cool down.
- When removing misfed paper from the fusing unit, do not touch any parts other than those specified
 in this manual.
- When a paper misfeed (B) occurs, the paper tray is locked and cannot be pulled out. Do not forcefully
 pull out the tray.
- 1. Push up the lever on the right side, and open the printer's right cover carefully.



2. Turn lever B1 five to eight times.



3. Remove misfed paper slowly.



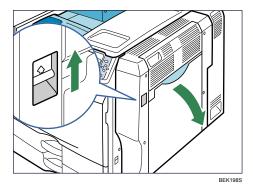
4. Carefully close the right cover.

Paper Misfeed Message (C)

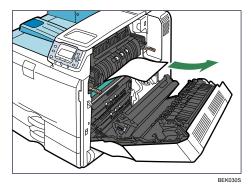
The "% C Read instructions in Front Cover to remove." error message appears when a paper misfeed occurs in the paper feed section.



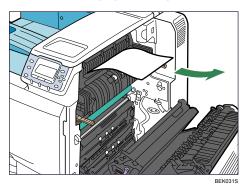
- The inside of this printer becomes very hot. Before removing paper around the fusing unit, wait until the temperature of the covers inside the fusing unit and duplex unit cool down.
- When removing misfed paper from the fusing unit, do not touch any parts other than those specified
 in this manual.
- When a paper misfeed (C) occurs, the paper tray is locked and cannot be pulled out. Do not forcefully
 pull out the tray.
- 1. Push up the lever on the right side, and open the printer's right cover carefully.



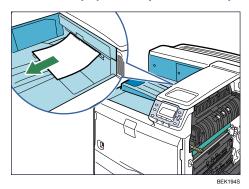
2. Remove misfed paper slowly.



3. Remove misfed paper slowly.



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



5. Carefully close the right cover.

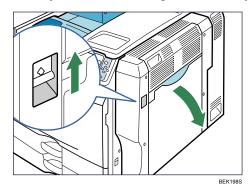


• If the message indicating paper misfeed does not disappear, pull the fusing unit out and push it back in several times.

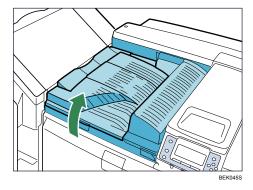
Paper Misfeed Message (D)

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

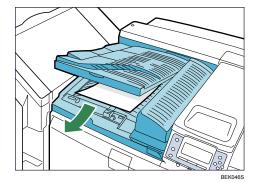
1. Push up the lever on the right side, and open the printer's right cover carefully.



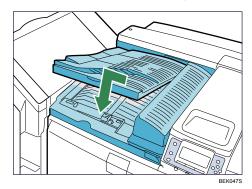
2. Open the left cover of the bridge unit.



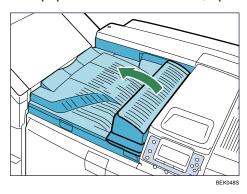
3. Remove the paper.



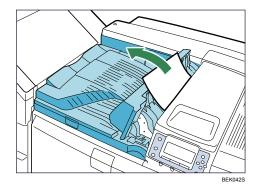




5. If the paper could not be removed, open the right cover of the bridge unit.



6. Remove the paper.



- 7. Close the right cover of the bridge unit.
- 8. Carefully close the right cover.

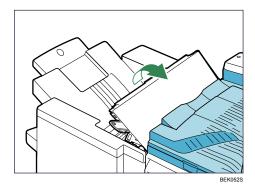
Paper Misfeed Message (R)

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

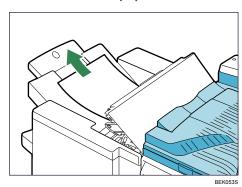
When the 1000-sheet Finisher is Installed

When R1 to R5 is displayed.

1. Open the finisher upper cover.

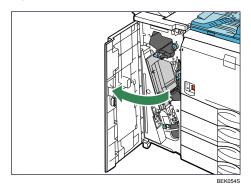


2. Remove the misfed paper.

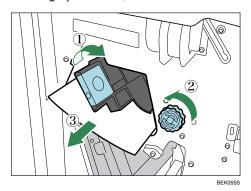


3. Close the finisher upper cover.

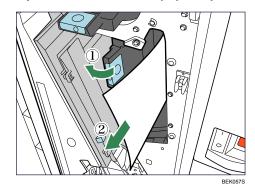
4. Open the finisher front cover.



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

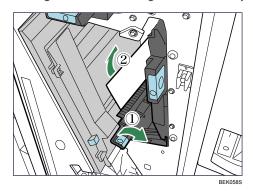


6. If you cannot remove the paper, open lever R3 to the left, and then remove the paper.

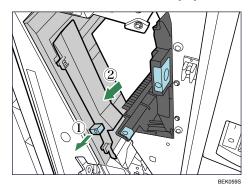


7. Return the lever R3 to its original position.

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



9. Pull lever R5 and remove the paper.

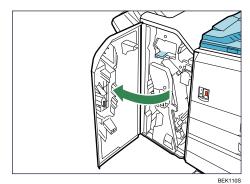


10. Close the finisher front cover.

When the 2 Tray Finisher is Installed

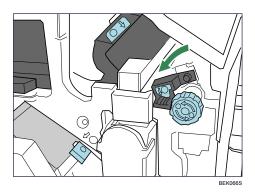
When R1, R2, R3, or R4 is displayed.

1. Open the front cover of the finisher.

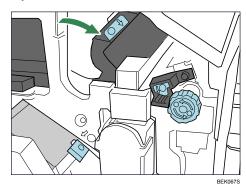


IU

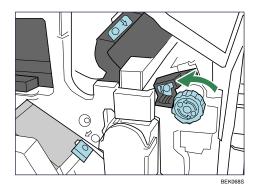
2. Turn lever R1 counterclockwise.

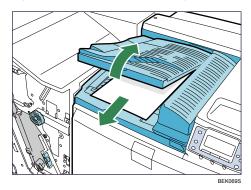


3. Open lever R3.

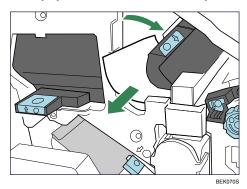


4. Turn lever R2 counterclockwise.

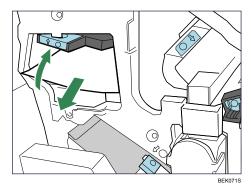




 $\pmb{6}. \;\; \text{If the paper cannot be removed, open lever R3 and remove the paper.}$



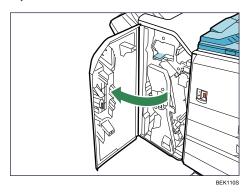
7. Raise lever R4 up and remove the paper.



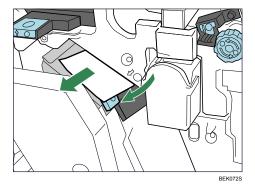
- 8. Return levers R3 and R4 to their original positions.
- 9. Close the front cover of the finisher.

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

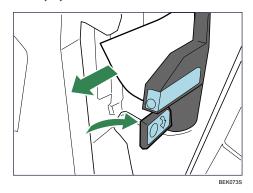
1. Open the front cover of the finisher.



2. Push lever R5 outward and remove the paper.

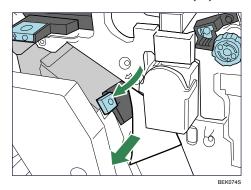


- 3. Return lever R5 to its original position.
- 4. If the paper could not be removed, raise lever R6 and remove the paper.



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

7. Lower lever R7 and remove the paper.



- 8. Return levers R3 and R7 to their original positions.
- 9. Close the front cover of the finisher.

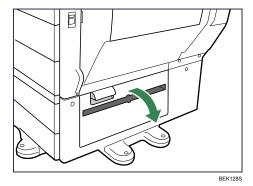
10

Paper Misfeed Message (Y)

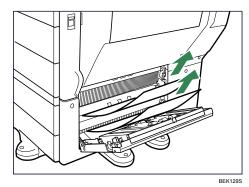
The "% Y Open the part as shown and remove paper." error message appears when a paper misfeed occurs in the paper feed section of an optional paper feed unit.



- When a paper misfeed (Y) occurs, the paper tray is locked and cannot be pulled out. Do not forcefully
 pull out the tray.
- If the 1200-sheet paper feed unit is installed, pull the 1200-sheet paper feed unit before following the procedure below.
- Open the cover on the right side of the paper feed unit or 2000-sheet paper feed unit carefully.



2. Remove misfed paper slowly.



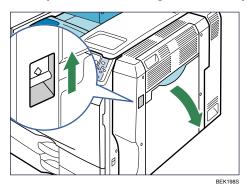
3. Close the cover on the right side of the paper feed unit or 2000-sheet paper feed unit carefully.

Paper Misfeed Message (Z)

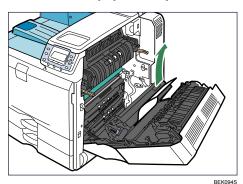
The "% Press Z to open cover and remove paper." error message appears when a paper misfeed occurs inside the duplex unit.



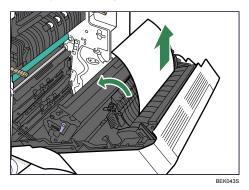
- The inside of this printer becomes very hot. Before removing paper around the fusing unit, wait until the temperature of the covers inside the fusing unit and duplex unit cool down.
- When a paper misfeed (Z) occurs, the paper tray is locked and cannot be pulled out. Do not forcefully
 pull out the tray.
- 1. Push up the lever on the right side, and open the printer's right cover carefully.



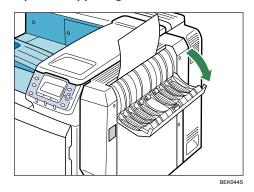
2. Remove misfed paper slowly.



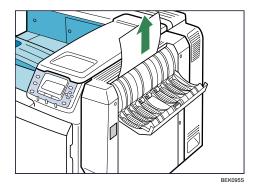




- 4. Close the cover.
- 5. Carefully close the right cover.
- 6. Open the upper right cover.



7. Remove misfed paper slowly.



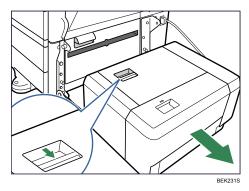
8. Close the upper right cover.

Paper Misfeed Message (U)

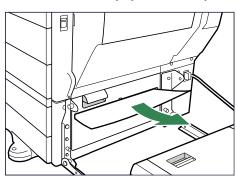
The "% U Open the part as shown and remove paper." error message appears when a paper misfeed occurs in the paper feed section of an optional paper feed unit.



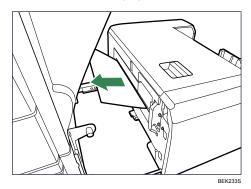
- The inside of this printer becomes very hot. Before removing paper around the fusing unit, wait until the temperature of the covers inside the fusing unit and duplex unit cool down.
- When a paper misfeed (U) occurs, the paper tray is locked and cannot be pulled out. Do not forcefully
 pull out the tray.
- 1. Unlock the lever on the 1200-sheet paper feed unit, pull the 1200-sheet paper feed unit.



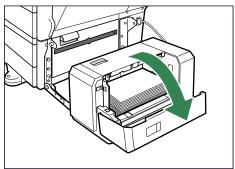
2. Remove the misfed paper from the printer slowly.



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

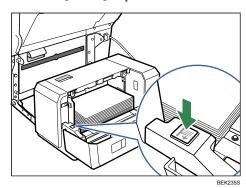


4. If the paper cannot be removed, open the cover of the 1200-sheet paper feed unit.

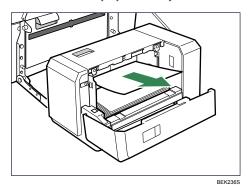


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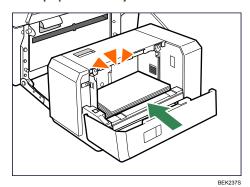
5. Press the [Down] key to lower the bottom plate.



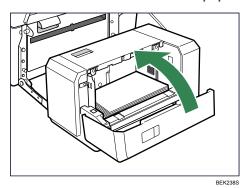
6. Remove misfed paper slowly.



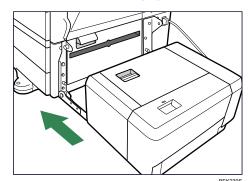
7. Load paper correctly.



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



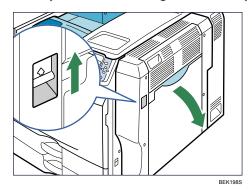
9. Return the 1200-sheet paper feed unit to its original position.



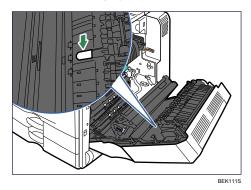
Duplex Print Always Misfeeds

☆ Important

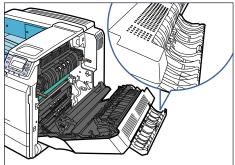
- The inside of this printer becomes very hot. Before removing paper around the duplex units, wait until the covers inside the fusing unit and duplex unit cool down.
- 1. Push up the lever on the right side, and open the printer's right cover carefully.



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

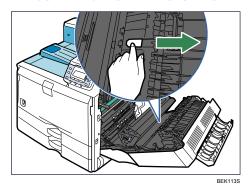


3. If there is paper, open the upper right cover.

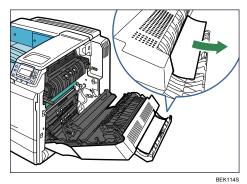


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4. Using your finger, push the paper up in the direction of the arrow.



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



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

11. Appendix

Moving and Transporting the Printer

MARNING

 Disconnect the power plug (by pulling the plug, not the cable) if the power cable or plug becomes frayed or otherwise damaged.

ACAUTION

- Before moving the machine, unplug the power cord from the wall outlet. If the cord is unplugged abruptly, it could become damaged. Damaged plugs or cords can cause an electrical or fire hazard.
- When moving the machine, hold the handles at both sides, and then lift the printer slowly. Lifting it carelessly or dropping it may cause an injury.
- When moving the printer after use, do not take out any of the toners, photo conductor units, nor waste toner bottle to prevent toner spill inside the machine.

- Be sure to disconnect all cables from the printer before transporting it.
- The printer is a piece of precision machinery. Take care to avoid damage during transportation.
- If optional paper feed units are attached, remove them from the printer and move them separately.

Repack the printer using its original packaging for transporting.



• The printer weighs approximately 73 kg (161 lb.).

Moving the Printer

ACAUTION

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

Moving the printer a short distance

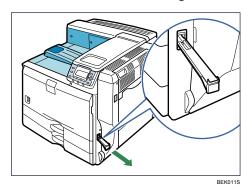


Be sure to place the printer on a smooth and stable place.

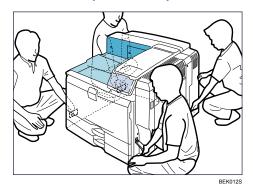
- 1. Be sure to check the following points:
 - The power switch is turned off.
 - The power cord is unplugged from the wall outlet.
 - The interface cable is unplugged from the printer.
- 2. If any external options are attached, remove them.

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

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



4. Lift the printer with four people by using the handles on both sides of the printer, and then move it to the place where you want to install it, keeping it horizontal.



- 5. Return the handle you pulled out from the printer to its original position.
- 6. If you removed options, reattach them.

For details, see the relevant sections in this manual.



- At least four people are required to lift the printer.
- Be sure to keep the printer horizontal while moving it. To prevent toner from being released, move the printer slowly.
- If optional paper feed units are attached, remove them from the printer and move them separately.

Consumables

Toner

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

UNote

- Toner can print up to 36,000 pages when it is compliant with ISO/IEC 19752 and the image density
 is set as the factory default. ISO/IEC 19752 is an international standard on measurement of printable
 pages, set by the International Organization for Standardization.
- Our products are engineered to meet the highest standards of quality and functionality. When
 purchasing expendable supplies, we recommend using only those specified by an authorized dealer.
- If the toner is not changed when necessary, printing will become impossible. We recommend keeping a stock of toner or purchasing one soon.
- The actual number of printable pages varies depending on the image volume and density, number
 of pages to be printed at a time, paper type and paper size used, contents of print images, and
 environmental conditions such as temperature and humidity.
- Toner (consumable) is not covered by warranty. However, if there is a problem, contact the store
 where it was purchased.
- Toner may need to be changed sooner than indicated above due to deterioration over the period of use.

Maintenance Kit

Maintenance Kit SP 8200 A

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

Maintenance Kit SP 8200 B

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



- The actual number of printable pages varies depending on the image volume and density, number
 of pages to be printed at a time, paper type and paper size used, and environmental conditions such
 as temperature and humidity.
- If Maintenance Kit is not changed when necessary, the quality of printing is not guaranteed. We recommend keeping a stock of Maintenance Kit or purchasing one soon.
- Maintenance Kit (consumables) is not covered by warranty. However, if there is a problem, contact the store where they were purchased.
- Maintenance Kit may need to be changed sooner than indicated above due to deterioration over the period of use.

Staple Cartridge

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

Specifications

Mainframe

Configuration:

Desktop

Memory:

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

Print Process:

Laser beam scanning and Electrophotographic printing

Dualcomponent development

First Print Speed:

3.5 seconds or less (A4 \mathbb{D} , 8 $^{1}/_{2}$ " × 11" (Letter) \mathbb{D})

Note that if the printer has not been used for some time, there may be a short delay before the first page starts printing.

Printing Speed:

Maximum 50 pages per minute (A4 \mathbb{D} , 8 $^{1}/_{2}$ " × 11" (Letter) \mathbb{D})

Fonts:

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

Paper Size:

See p.77 "Paper and Other Media".

Paper Weight:

See p.77 "Paper and Other Media".

Media Type:

See p.77 "Paper and Other Media".

Resolution:

600 dpi

300 dpi

Printer Language:

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

Network protocol:

TCP/IP, IPX/SPX, Apple Talk, NetBEUI, IPP, SMB

Interfaces:

Standard:

- Ethernet (10BASE-T/100BASE-TX)
- USB 2.0, USB Host

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

Optional:

- Parallel (Bidirectional IEEE1284)
- Wireless LAN (IEEE802.11 a/b/g)
- Gigabit Ethernet (1000BASE-T)

Noise Emission:

During Printing: 72 db (A) or less

Standby: 48 db (A) or less

Warm-up Time:

Less than 22 seconds (23 °C, 73 °F)

Paper Capacity:

Standard Paper Tray	550 sheets × 2 trays
Bypass Tray	100 sheets

Power Source:

220-240V

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

120V

120 V, 60 Hz, 12 A or more

Power Consumption:

220-240V

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

120V

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

Dimensions (W \times D \times H):

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

Weight:

Approximately 73 kg (161 lb.)

Options

Paper Feed Unit PB3040

Paper Size:

A3 \$\boldsymbol{\Pi}\$, A5 \$\boldsymbol{\Pi}\$, B4 JIS \$\boldsymbol{\Pi}\$, B5 JIS \$\boldsymbol{\Pi}\$\boldsymbol{\Pi}\$, 11" × 17" \$\boldsymbol{\Pi}\$, 8\$^1/2" × 14" (Legal) \$\boldsymbol{\Pi}\$, 8\$^1/2" × 13" (Folio) \$\boldsymbol{\Pi}\$, 8\$^1/4" × 13" (Folio) \$\boldsymbol{\Pi}\$,

8" × 13" (F/GL) \Box , $7^{1}/_{4}$ " × $10^{1}/_{2}$ " (Executive) \Box

Custom Size: 182 to 297 mm (7.17 to 11.69 inches) in width, 148 to 432 mm (5.83 to 17.00 inches) in length

Dimensions (W \times D \times H):

 $580 \times 620 \times 260 \text{ mm}$ (22.9 × 24.5 × 10.3 inches)

Paper Capacity (80 g/m², 20 lb.):

550 sheets × 2 trays

Weight:

Approximately 26 kg (57.3 lb.)

Power Consumption:

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

LCIT PB3050

Paper Size:

220-240V : A4D

120V : 8¹/₂" × 11" (Letter)□

Dimensions (W × D × H):

 $580 \times 650 \times 260 \text{ mm}$ (22.9 × 24.5 × 10.3 inches)

11

Paper Capacity (80 g/m², 20 lb.):

1000 sheets × 2trays

Weight:

Approximately 26 kg (57.3 lb.)

Power Consumption:

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

LCIT RT3000

Paper Size:

A4□, B5 JIS□, 8¹/₂" × 11" (Letter)□

Dimensions (W × D × H):

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

Paper Capacity (80 g/ m^2 , 20 lb.):

1200 sheets

Weight:

Approximately 14 kg (30.9 lb).

Power Consumption:

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

Finisher SR3030

[Finisher Upper Tray]

Paper Size:

A3 \square , A4 \square \square , A5 \square \square , A6 \square , B4 JIS \square , B5 JIS \square \square , B6 JIS \square , 11" × 17" \square , 8¹/₂" × 14" (Legal) \square , 8¹/₂" × 13 " (Foolscap) \square , 8¹/₂" × 11" (Letter) \square \square , 8¹/₄" × 13" (Folio) \square , 8" × 13" (F/GL) \square , 7¹/₄" × 10¹/₂" (Executive) \square {\square}, 5¹/₂" × 8¹/₂" \square {Half Letter}, 12" × 18" \square {

Custom Size: 100 to 305 mm (3.94 to 12.00 inches) in width, 148 to 600 mm (5.83 to 23.62 inches) in length

Paper Weight:

52 to $163 \text{ g/m}^2 (14 \text{ to } 43 \text{ lb.})$

Paper Capacity (80g/m², 20lb.):

• 250 sheets:

A4 \square , B5 JIS \square , A5 \square , B6 JIS \square , A6 \square , 8 $^1/_2$ " × 13" (Foolscap) \square , 8 $^1/_2$ " × 11" (Letter) \square , 8 $^1/_4$ "× 13" (Folio) \square , 8" × 13" (F/GL) \square , 7 $^1/_4$ " × 10 $^1/_2$ " (Executive) \square , 5 $^1/_2$ " × 8 $^1/_2$ " (Half Letter) \square

• 50 sheets:

[Finisher Shift Tray]

Paper Size (no staple):

A3 \square , A4 \square \square , A5 \square \square , A6 \square , B4 JIS \square , B5 JIS \square \square , B6 JIS \square , 11" × 17" \square , 8 $^1/_2$ " × 14" (Legal) \square , 8 $^1/_2$ " × 13" (Foolscap) \square , 8 $^1/_2$ " × 11" (Letter) \square \square , 8 $^1/_4$ " × 13" (Folio) \square , 8" × 13" (F/GL) \square , 7 $^1/_4$ " × 10 $^1/_2$ " (Executive) \square \square , 5 $^1/_2$ " × 8 $^1/_2$ " (Half Letter) \square , Com10 \square , Monarch \square , C5 \square , C6 \square , DL Env \square . 12" × 18" \square

Custom Size: 100 to 305 mm (3.94 to 12.0 inches) in width, 148 to 600 mm (5.83 to 23.62 inches) in length

Paper Weight:

52 to 256 g/m^2 (14 to 68 lb.)

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

• 3,000 sheets:

A4
$$\mathbb{D}$$
, 8 $^{1}/_{2}$ " × 11" (Letter) \mathbb{D}

• 1500 sheets:

A3 \square , A4 \square , B4 JIS \square , B5 JIS \square \square , 11" × 17" \square , 8 $^1/_2$ " × 14" (Legal) \square , 8 $^1/_2$ " × 11" (Letter) \square , 12" × 18" \square

- 500 sheets for A5□
- 100 sheets:

A5
$$\Box$$
, B6 JIS \Box , A6 \Box , 5 $^{1}/_{2}$ " × 8 $^{1}/_{2}$ " \Box

Staple Paper Size:

A3 \square , A4 \square \square , B4 JIS \square , B5 JIS \square \square , 11" × 17" \square , 8 $^1/_2$ " × 14" (Legal) \square , 8 $^1/_2$ " × 13" (Foolscap) \square , 8 $^1/_2$ " × 11" (Letter) \square \square , 8 $^1/_4$ " × 13" (Folio) \square , 8" × 13" (F/GL) \square , 7 $^1/_4$ " × 10 $^1/_2$ " (Executive) \square \square , 12" × 18" \square

Staple Paper Weight:

 $64 \text{ to } 90 \text{ g/m}^2 (17 \text{ to } 24 \text{ lb.})$

Staple Capacity (80g/m², 20lb.):

Without Mixed Size:

• 30 sheets:

A3 \square , B4JIS \square , 11" × 17" \square , 8 $^1/_2$ " × 14" (Legal) \square , 8 $^1/_2$ " × 13" (Foolscap) \square , 8 $^1/_4$ " × 13" (Folio) \square , 8" × 13" (F/GL) \square

• 50 sheets:

A4
$$\square$$
D, B5 JIS \square D, 8 $^{1}/_{2}$ " × 11" (Letter) \square D, $7^{1}/_{4}$ " × $10^{1}/_{2}$ " (Executive) \square D, 12" × 18" \square D

With Mixed Size:

• 30 sheets:

A3
$$\Box$$
/A4 \Box , B4 JIS \Box /B5 JIS \Box , 11" × 17" \Box /8¹/₂" × 11" (Letter) \Box

Paper Capacity after staple (80g/m², 20lb.):

Without Mixed Size:

• 2 to 19 sheets: 150 sets

A4
$$\Box$$
, 8 $^{1}/_{2}$ " × 11" (Letter) \Box

• 20 to 50 sheets: 150 to 60 sets

A4
$$D$$
, 8 $^{1}/_{2}$ " × 11" (Letter) D

• 2 to 14 sheets: 100 sets

• 15 to 50 sheets: 100 to 30 sets

• 2 to 14 sheets: 100 sets

A3
$$\square$$
, B4 JIS \square , 11" × 17" \square , 8 $^1/_2$ " × 14" (Legal) \square , 8" × 13" (F/GL) \square , 8 $^1/_2$ " × 13" (Foolscap) \square , 8 $^1/_4$ " × 13" (Folio) \square , 7 $^1/_4$ " × 10 $^1/_2$ " (Executive) \square

• 15 to 30 sheets: 100 to 33 sets

A3
$$\square$$
, B4 JIS \square , 11" × 17" \square , 8 $^1/_2$ " × 14" (Legal) \square , 8" × 13" (F/GL) \square , 8 $^1/_2$ " × 13" (Foolscap) \square , 8 $^1/_4$ " × 13" (Folio) \square , 7 $^1/_4$ " × 10 $^1/_2$ " (Executive) \square

With Mixed Size:

• 2 to 30 sheets: 50 sets

A3
$$\square$$
/A4 \square , B4 JIS \square /B5 JIS \square , 11" × 17" \square /8 $^1/_2$ " × 11" (Letter) \square

Staple Positions:

- 1 staple 3 positions
- 2 staples 2 positions

Power Consumption:

Approximately 96 W

Dimensions:

657 × 613 × 960 mm (25.9 × 24.2× 37.8 inches)

Weight:

Approximately 54 kg (119.1 lb.)

Finisher SR790

[Finisher Upper Tray]

Paper size:

A3D, A4DD, A5DD, A6D, B4 JISD, B5 JISDD, B6 JISD, 11" × 17"D, $8^1/_2$ " × 14" (Legal) D, $8^1/_2$ " × 13" (Foolscap) D, $8^1/_2$ " × 11" (Letter) DD, $8^1/_4$ " × 13" (Folio) D, 8^1 × 13" (F/GL) D, $7^1/_4$ " × $10^1/_2$ " (Executive) DD, $5^1/_2$ " × $8^1/_2$ " (Half Letter) D, 12" × 18^1 D

Custom Size: 100 to 305 mm (3.94 to 12.0 inches) in width, 148 to 600 mm (5.83 to 23.62 inches) in length

Paper weight:

52 to 260 g/ m^2 (14 to 68 lb.)

Paper capacity (80 g/ m^2 , 20 lb.):

• 250 sheets:

A4 \square , B5 JIS \square , A5 \square , B6 JIS \square , A6 \square , 8 $^1/_2$ " × 13" (Foolscap) \square , 8 $^1/_2$ " × 11" (Letter) \square , 8 $^1/_4$ "× 13" (Folio) \square , 8" × 13" (F/GL) \square , 7 $^1/_4$ " × 10 $^1/_2$ " (Executive) \square , 5 $^1/_2$ " × 8 $^1/_2$ " (Half Letter) \square

• 50 sheets:

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

[Finisher Shift Tray]

Paper size(no staple):

A3 \square , A4 \square \square , A5 \square \square , B4 JIS \square , B5 JIS \square \square , 11" × 17" \square , 8 $^1/_2$ " × 14" (Legal) \square , 8 $^1/_2$ " × 13" (Foolscap) \square , 8 $^1/_2$ " × 11" (Letter) \square \square , 8 $^1/_4$ " × 13" (Folio) \square , 8" × 13" (F/GL) \square , 7 $^1/_4$ " × 10 $^1/_2$ " (Executive) \square {\square}, 5 $^1/_2$ " × 8 $^1/_2$ " (Half Letter) \square , 12" × 18" \square

Paper weight:

52 to 163 g/m² (14 to 43 lb.)

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

• 1,000 sheets:

A4 \square , B5 JIS \square , 8 $^{1}/_{2}$ " × 11" (Letter) \square , $7^{1}/_{4}$ " × $10^{1}/_{2}$ " (Executive) \square

• 500 sheets:

A3 \square , B4 JIS \square , 11" × 17" \square , 8 $^1/_2$ " × 14" (Legal) \square , 8 $^1/_2$ " × 13" (Foolscap) \square , 8 $^1/_4$ " × 13" (Folio) \square , 8" × 13" (F/GL) \square , 12" × 18" \square

Staple paper size:

A3 \square , A4 \square \square , B4 JIS \square , B5 JIS \square \square , 11" × 17" \square , 8 $^1/_2$ " × 14" (Legal) \square , 8 $^1/_2$ " × 13" (Foolscap) \square , 8 $^1/_2$ " × 11" (Letter) \square \square , 8 $^1/_4$ " × 13" (Folio) \square , 8" × 13" (F/GL) \square , 7 $^1/_4$ " × 10 $^1/_2$ " (Executive) \square \square , 12" × 18" \square

Staple paper weight:

 $64 \text{ to } 90 \text{ g/m}^2 (17 \text{ to } 28 \text{ lb.})$

Staple capacity (80 g/m², 20 lb.):

• 50 sheets:

A4
$$DD$$
, B5 JIS DD , $8^{1}/_{2}$ " × 11" (Letter) DD , $7^{1}/_{4}$ " × $10^{1}/_{2}$ " (Executive) DD

• 30 sheets:

A3
$$\square$$
, B4 JIS \square , 11" × 17" \square , 8 $^1/_2$ " × 14" (Legal) \square , 8 $^1/_2$ " × 13" (Foolscap) \square , 8 $^1/_4$ " × 13" (Folio) \square , 8" × 13" (F/GL) \square , 12" × 18" \square

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

- 2 to 9 sheets: 100 sets (A4DD, B5 JISDD, 81/2" × 11"DD)
- 10 to 50 sheets: 100 to 20 sets (A4D, 8¹/₂" × 11"D)
- 10 to 50 sheets: 50 to 10 sets (A4□, B5 JIS□□, 8¹/2" × 11"□)
- 2 to 9 sheets: 50 sets (A3□, B4 JIS□, 11" × 17"□, 8¹/₂" × 14"□, 12" × 18"□)
- 10 to 30 sheets: 50 to 10 sets (A3D, B4 JISD, 11" × 17"D, 8¹/₂" × 14"D, 12" × 18"D)

Staple position:

3 positions (Top, Bottom, 2 Staples)

Power consumption:

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

Dimensions (W \times D \times H):

$$270 \times 520 \times 790 \text{ mm} (10.7 \times 20.5 \times 31.2 \text{ inches})$$

Weight:

Approximately 25 kg (55.2 lb.)

Output Jogger Unit Type 3260

Paper size

Power consumption (Max):

7 W (power supplied from main unit)

Dimensions (W \times D \times H):

 $125 \times 450 \times 100 \text{ mm}$ (4.9 × 17.8 × 3.9 inches)

Weight:

Approximately 1.7 kg (3.8 lb.)

П

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

Module Type:

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

Memory Type:

SDRAM (Synchronous Dynamic RAM)

Number of Pins:

200 pins

Hard Disk Drive Option Type 5000

Storage Capacity (Formatted):

40 GB

Specifications:

- Spooling print data to collate
- Storing/Spooling Sample Print/Locked Print/Hold Print/Stored Print data
- Storing PostScript fonts
- · Storing log data



 You can install PostScript fonts with this optional hard disk drive. With Mac OS, types of fonts supported are PostScript Type 1 and PostScript Type 2. To download them, use Printer Utility for Mac.

Gigabit Ethernet Board Type A

Interface Connector:

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

USB 2.0

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

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

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

Protocol:

TCP/IP, IPX/SPX, Apple Talk

Maximum Length of Cable Between Devices:

Ethernet: 100 m

USB: 5 m

IEEE 802.11a/g Interface Unit Type J

Transmission Specification:

Based on IEEE 802.11 a/b/g (Wireless LAN)

Data Transfer Speed:

Auto select from the following speed:

- IEEE 802.11 b:
 - 1 Mbps, 2 Mbps, 5.5 Mbps, 11 Mbps
- IEEE 802.11 g:
 - 1 Mbps, 2 Mbps, 5.5 Mbps, 6 Mbps, 9 Mbps, 11 Mbps, 12 Mbps, 18 Mbps, 24 Mbps, 36 Mbps, 48 Mbps, 54 Mbps
- IEEE 802.11 a:
 - 6 Mbps, 9 Mbps, 12 Mbps, 18 Mbps, 24 Mbps, 36 Mbps, 48 Mbps, 54 Mbps

Frequency Range:

- IEEE 802.11 b/g:
 - 220-240V: 2412 to 2472 MHz (Channels 1 to 13)
 - 120V : 2412 to 2462 MHz (Channels 1 to 11)
- IEEE 802.11 a:
 - 5180 to 5320 MHz (Channels 36, 40, 44, 48, 52, 56, 60, and 64)

Transmission Mode:

- Ad-hoc mode
- Infrastructure mode

IEEE 802.11 g Interface Unit Type K

220-240V

Transmission Specification:

Based on IEEE 802.11b/g (Wireless LAN)

Data Transfer Speed:

Auto select from the following speed:

1 Mbps, 2 Mbps, 5.5 Mbps, 6 Mbps, 9 Mbps, 11 Mbps, 12 Mbps, 18 Mbps, 24 Mbps, 36 Mbps, 48 Mbps, 54 Mbps

Frequency Range:

2412 to 2462 MHz (Channels 1 to 11)

Transmission Mode:

- Ad-hoc mode
- Infrastructure mode

IEEE 1284 Interface Board Type A

Transmission Specification:

IEEE 1284

Required Cable:

Standard IEEE 1284-compliant Micro Getronics 36-pin cable

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

Paper size:

2 and 3 holes type

2 4114 6 116165 17 196	
	A3, A4, A4, A5, A5, A6, B4, B5, B5, B5, B5, B5, B6, B6, B6, B6, B6, B6, B6, B6, B6, B6
2 holes	8 ¹ / ₂ " × 13" (Foolscap) □, 8 ¹ / ₂ " × 11" (Letter) □ □, 8 ¹ / ₄ " × 13" (Folio) □, 8" × 13" (F/GL) □, 7 ¹ / ₄ " × 10 ¹ / ₂ " (Executive) □ □,
	$5^1/_2$ " × $8^1/_2$ " (Half Letter) \Box
3 holes	A3, A4, B4, B4, JIS, B5, JIS, 11" × 17", 81/2" × 11" (Letter), 71/4" × 101/2" (Executive)

Paper weight:

52 to $163 \text{ g/m}^2 (14 \text{ to } 43 \text{ lb.})$

Punch Unit Type 3260 EU 2/4 (Finisher SR3030 Only)

Paper size:

2 and 4 holes type

	A3□, A4□□, A5□□, A6□, B4 JIS□, B5 JIS□
2 holes	\Box , B6 JIS \Box , 11" × 17" \Box , 8 $^{1}/_{2}$ " × 14" (Legal)
	D,

	$8^{1}/_{2}$ " × 13" (Foolscap) \Box , $8^{1}/_{2}$ " × 11" (Letter) \Box , $8^{1}/_{4}$ " × 13" (Folio) \Box , 8 " × 13" (F/GL) \Box , $7^{1}/_{4}$ " × $10^{1}/_{2}$ " (Executive) \Box , $5^{1}/_{2}$ " × $8^{1}/_{2}$ " (Half Letter) \Box
4 holes	A3D, A4D, B4 JISD, B5 JISD, 11" × 17"D, 8 ¹ / ₂ " × 11" (Letter)D, 7 ¹ / ₄ " × 10 ¹ / ₂ " (Executive)D

Paper weight:

 $52 \text{ to } 163 \text{ g/m}^2 \text{ (}14 \text{ to } 43 \text{ lb.)}$

Punch Unit Type 3260 SC (Finisher SR3030 Only)

Paper size:

4 holes type

	A3, A4, A5, A5, A6, B4, JIS, B5, B5, B5, B5, B5, B5, B5, B5, B5, B5
4 holes	$8^{1}/_{2}$ " × 13" (Foolscap) \square , $8^{1}/_{2}$ " × 11" (Letter) \square , $8^{1}/_{4}$ " × 13" (Folio) \square , 8 " × 13" (F/GL) \square , $7^{1}/_{4}$ " × $10^{1}/_{2}$ " (Executive) \square \square , $5^{1}/_{2}$ " ×
	8 ¹ / ₂ " (Half Letter)□

Paper weight:

 $52 \text{ to } 163 \text{ g/m}^2 \text{ (}14 \text{ to } 43 \text{ lb.)}$

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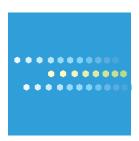
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Some illustrations in this manual might be slightly different from the machine.

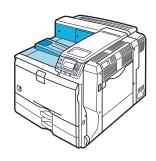






MLP**150**DN SP 8200bN *LP150dn* **Aficio** SP 8200bN

Operating Instructions Software Guide



- 1 Preparing for Printing
- 2 Setting Up the Printer Driver
- 3 Other Print Operations
- 4 Using Paper Types that Have Unique Names
- **5** Making Printer Settings Using the Control Panel
- 6 Monitoring and Configuring the Printer
- (7) Using a Printer Server
- 8 Mac OS Configuration
- 9 Security Measures Provided by this Printer
- 10 Appendix

Introduction

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

Manuals for This Printer

Refer to each manual as required.

Safety Information

Contains information about safe usage of this machine.

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

Quick Installation Guide

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

Hardware Guide

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

Software Guide (this manual)

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

Security Guide

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

Note to Administrator

Contains administrators' notes, such as information about administrators' hidden menus and hard disk overwrite functions.

Administrators must store this manual carefully.

UNIX Supplement

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

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

Model-Specific Information

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

220-240V ·

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

Read if you have purchased this model.

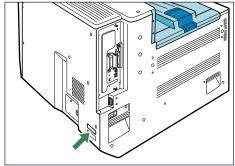
120V :

This indicates information about the 120 V model printer.

Read if you have purchased this model.



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



BEK189

How to Read This Manual

Symbols

This manual uses the following symbols:



Indicates important safety notes.

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

ACAUTION

Indicates important safety notes.

Ignoring these notes could result in moderate or minor injury, or damage to the printer or to property. Be sure to read these notes. They can be found in the "Safety Information" section of Safety Information.

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



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.

[]

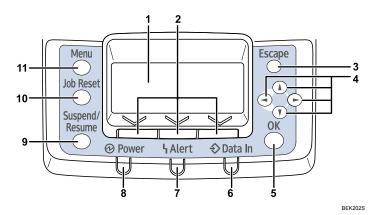
Indicates the names of keys on the printer's control panel.

About IP Address

In this manual, "IP address" covers both IPv4 and IPv6 environments. Read the instructions that are relevant to the environment you are using.

Using Keys

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



1. Display

Displays current printer status and error messages.

When the printer enters energy saver mode, the display back light turns off. For details about energy saver mode, see "System Menu".

2. Selection Keys

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

3. [Escape] Key

Press this key to return to the previous display.

4. Scroll Keys

Press to move the cursor in each direction.

When the $[^{\blacktriangle}]$ $[^{\blacktriangledown}]$ keys appear in this manual, press the scroll key of the same direction.

5. [OK] Key

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

6. Data In indicator

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

7. Alert Indicator

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

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

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

Follow the instructions that appear on the display.

8. Power Indicator

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

9. [Suspend/Resume] Key

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

10. [Job Reset] Key

Press this key to cancel an ongoing print job.

11. [Menu] Key

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

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

■ Reference

• p.151 "System Menu"

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1. Preparing for Printing

Confirming the Connection Method

This printer supports network and local connections.

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

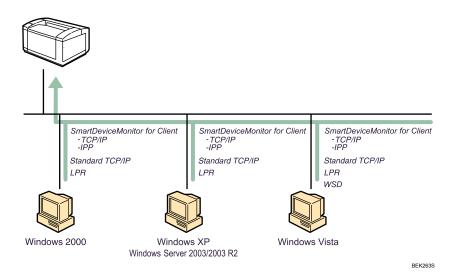
Network Connection

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

Using this printer as a Windows printing port

Network connections can be established through Ethernet and Wireless LAN.

Available ports are determined based on the combination of the Windows operating system version and connection method used.



Windows 2000/XP

Connection Method	Available Ports
Ethernet	SmartDeviceMonitor for Client port
Wireless LAN	Standard TCP/IP port

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Connection Method	Available Ports
	LPR port

Windows Vista

Connection Method	Available Ports
• Ethernet	SmartDeviceMonitor for Client port
Wireless LAN	Standard TCP/IP port
	• LPR port
	WSD port

Windows Server 2003/2003 R2

Connection Method	Available Ports
Ethernet	SmartDeviceMonitor for Client port
Wireless LAN	Standard TCP/IP port
	• LPR port



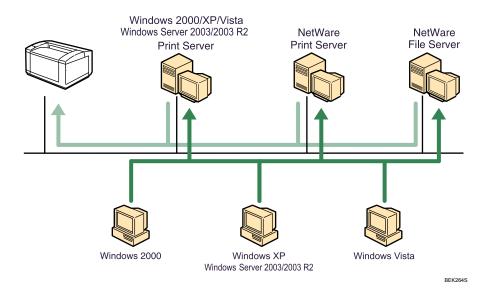
- See the explanation about how to install the printer driver for each type of ports.
- For details about the SmartDeviceMonitor for Client port, see "Installing the Printer Driver".
- For details about the Standard TCP/IP port, see "Installing the Printer Driver".
- For details about the LPR port, see "Installing the Printer Driver".
- For details about the WSD port, see "Installing the Printer Driver".

■ Reference

• p.21 "Installing the Printer Driver"

Using as a network printer

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





- In an IPv6 environment, NetWare servers cannot be used.
- See the explanation about how to install the printer driver for each type of network printers.
- For details about Windows network printer, see "Using as a Windows Network Printer".
- For details about a NetWare print server and remote printer, see "Using as a NetWare Print Server/ Remote Printer".

Reference

- p.39 "Using as a Windows Network Printer"
- p.42 "Using as a NetWare Print Server / Remote Printer"

Local Connection

Local connections can be established via parallel and USB connections.

Available connection methods are determined based on the Windows operating system version used.

Windows 2000/XP/Vista:

- USB connection
- Parallel connection

Windows Server 2003/2003 R2:

- USB connection
- Parallel connection

U Note

- See the explanation about how to install the printer driver for each connection method.
- For details about USB connections, see "Installing the Printer Driver Using USB".
- For details about parallel connections, see "Printing with Parallel Connection".

■ Reference

- p.45 "Installing the Printer Driver Using USB"
- p.48 "Printing with Parallel Connection"

Installing the Printer Driver

This section explains how to install the printer driver. There are two ways to install the printer driver: using Quick Install, which installs the settings at once, or installing the appropriate driver according to the port you want to use.

Downloading the Printer Driver

You can install the printer driver from the CD-ROM provided with this printer or download it from the supplier's Web site.

If your operating system is Windows XP Pro x64, Windows Vista x64, or Windows Server 2003/2003 R2 x64, you must download the printer driver from the supplier's Web site. Select this printer and the operating system you are using, and then download it.

Quick Install

Users of Windows 2000/XP/Vista, and Windows Server 2003/2003 R2 can install this software easily using the supplied CD-ROM.

Using Quick Install, the PCL and RPCS printer drivers and DeskTopBinder- SmartDeviceMonitor for Client are installed under the network environment, and the TCP/IP port will be set.

⊘Important

- To install the printer driver under Windows 2000/XP/Vista, and Windows Server 2003/2003 R2, you must have an account that has Manage Printers permission. Log on as an Administrator.
- If this printer is connected using USB, see "Installing the Printer Driver Using USB" and install the printer driver.
- 1. Quit all applications currently running.
- 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 [Quick Install].

The software license agreement appears in the [License Agreement] dialog box.

- After reading the agreement, click [I accept the agreement.] and then click [Next >].
- 6. Select the printer model you want to use in the [Select Printer] dialog box.

For network connection via TCP/IP, select the printer whose IP address is displayed in [Connect To]. For parallel connection, select the printer whose printer port is displayed in [Connect To].

1

7. Click [Install].

The printer driver installation starts.

8. Click [Finish].

A message about restarting the computer appears. Restart the computer to complete the installation.

9. Click [Exit] in the first dialog box of the installer, and then take out the CD-ROM.

Note

- To stop installation of the selected software, click [Cancel] before the installation is complete.
- Auto Run may not work with certain operating system settings. If this happens, launch "Setup.exe" on the CD-ROM root directory.
- Select a printer to whose IP address is displayed in [Connect To] to install SmartDeviceMonitor for Client when using TCP/IP.
- Quick Install is not available unless bidirectional communication between the printer and computer
 is enabled via parallel connection. For details about bidirectional communication between the printer
 and computer, see "Making Option Settings for the Printer".

Reference

- p.45 "Installing the Printer Driver Using USB"
- p.54 "Making Option Settings for the Printer"

Installing the Printer Driver for the Selected Port

Using the SmartDeviceMonitor for Client port



- To install SmartDeviceMonitor for Client under Windows 2000/XP/Vista, and Windows Server 2003/2003 R2, you must have an account that has Manage Printers permission. Log on as an Administrator.
- Install SmartDeviceMonitor for Client before installing the printer driver when using the SmartDeviceMonitor for Client port.

Installing SmartDeviceMonitor for Client

- 1. Quit all applications currently running.
- 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.

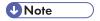
- 4. Click [DeskTopBinder SmartDeviceMonitor for Client].
- The message to quit all other applications appears. Quit all applications, and then click [Next
 .
- 6. The software license agreement appears in the [License Agreement] dialog box. After reading through its contents, click [Yes].
- 7. Click [Full install] or [Custom install].

[Full install] installs all required applications: DeskTopBinder Lite and SmartDeviceMonitor for Client.

[Custom install] installs selected applications.

- 8. Follow the instructions on the display and then click [Next >] to proceed to the next step.
- 9. After the installation is completed, select one of the options to restart the computer either now or later, and click [Complete].

Restart the computer to complete the installation.



- To stop installation of the selected software, click [Cancel] before the installation is complete.
- Auto Run may not work with certain operating system settings. If this happens, launch "Setup.exe" on the CD-ROM root directory.

Changing the port settings for SmartDeviceMonitor for Client

Follow the procedure below to change the SmartDeviceMonitor for Client settings, such as TCP/IP timeout, recovery/parallel printing, and printer groups.

Windows 2000:

- 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. On the [File] menu, click [Properties].
- 3. On the [Ports] tab, click [Configure Port].
 - The [Configuration] dialog box appears.

Windows XP, Windows Server 2003/2003 R2:

- 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. On the [File] menu, click [Properties].
- 3. Click the [Ports] tab, and then click [Configure Port].
 - The [Port Configuration] dialog box appears.

Windows Vista:

1. On the [Start] menu, click [Control Panel].

The [Control Panel] window appears.

2. Click [Printer].

The [Printers] window appears.

- 3. Right-click the icon of the printer you want to use, and then click [Properties].
- 4. Click the [Ports] tab, and then click [Configure Port].

The [Port Configuration:] dialog box appears.



- For TCP/IP, timeout setting can be configured.
- User, proxy, and timeout settings can be configured for IPP.
- If no settings on the [Recovery/Parallel Printing] tab are available, follow the procedure below.
 - 1. Click [Cancel] to close the [Port Configuration:] dialog box.
 - 2. Start SmartDeviceMonitor for Client, and then right-click the SmartDeviceMonitor for Client icon on the tasktray.
 - 3. Point to [Properties], and then click Extended Features Settings.
 - 4. Select the Set [Recovery/Parallel Printing] for each port check box.
 - 5. Click [OK] to close the [Extended Features] dialog box.
- For details about these settings, see "Using SmartDeviceMonitor for Client", or SmartDeviceMonitor for Client Help.

Reference

• p.206 "Using SmartDeviceMonitor for Client"

Installing the PCL / RPCS printer drivers (TCP/IP)

- To install this printer driver under Windows 2000/XP/Vista, and Windows Server 2003/2003 R2, you must have an account that has Manage Printers permission. Log on as an Administrators or Power Users group member.
- 1. Quit all applications currently running.
- 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/RPCS Printer Drivers].
- 5. The software license agreement appears in the [License Agreement] dialog box.

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

6. Select the printer driver you want to use in the [Select Program] dialog box.

You can select several printer drivers.

- 7. Click [Next >].
- 8. Select the printer model you want to use.

The printer name can be changed in the [Change settings for 'Printer Name'] box.

9. Double-click the printer name to display the printer settings.

The details shown in [Comment], [Driver], and [Port] vary depending on the operating system, printer model, and port.

- 10. Click [Port], and then click [Add].
- 11. Click [SmartDeviceMonitor], and then click [OK].
- 12. Click [TCP/IP], and then click [Search].

A list of printers using TCP/IP appears.

13. Select the printer you want to use, and then click [OK].

Only printers that respond to a broadcast from the computer appear. To use a printer not listed here, click [Specify Address], and then enter the IP address or host name of the printer.

- 14. Check that the port of the selected printer is displayed in [Port].
- 15. Set a user code, if necessary.

Up to 8 numeric characters can be entered. No alphabetic characters or symbols can be entered.

- 16. Select the [Default Printer] check box to configure the printer as default.
- 17. Click [Continue].

Installation starts.

18. After the installation is completed, select one of the options to restart the computer either now or later, and then click [Finish].



- Setting a user code allows a SmartDeviceMonitor for Admin user to display and check statistics about the number of sheets which each user prints. For details, see SmartDeviceMonitor for Admin Help.
- Auto Run may not work with certain operating system settings. If this happens, launch "Setup.exe" on the CD-ROM root directory.
- 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 "Messages Displayed When Installing the Printer Driver".

■ Reference

• p.51 "Messages Displayed When Installing the Printer Driver"

Installing the PostScript 3 printer driver (TCP/IP)

Mportant !

- Installing this printer driver requires Administrators permission. Log on using an account that has Administrators permission.
- You can install the printer driver from the CD-ROM provided with this printer or download it from the supplier's Web site.
- If your operating system is Windows XP Pro x64, Windows Server 2003/2003 R2 x64, you must download the printer driver from the manufacturer's Web site. Select this printer and the operating system you are using, and then download it.
- 1. Quit all applications currently running.
- 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.

The printer driver with the selected language will be installed. The English printer driver is installed when the following language is selected: Suomi, Magyar, Cestina, Polski, Portugues, Russian, Catala, Turkce.

4. Click [PostScript 3 Printer Driver].

Add Printer Wizard starts.

Step 5 does not apply for Windows Vista users.

- 5. Click [Next>].
- 6. Click [Local printer] or [Local printer attached to this computer.], and then click [Next>].
 If you are using Windows Vista, you do not need to click [Next>].
- 7. Click [Create a new port:].
- 8. Click [DeskTopBinder SmartDeviceMonitor], and then click [Next >].
- 9. Click [TCP/IP], and then click [Search].

A list of printers using TCP/IP appears.

10. Select the printer you want to use, and then click [OK].

Only printers that respond to a broadcast from the computer appear. To use a machine not listed here, click [Specify Address], and then enter the IP address or host name of the machine.

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

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

Step 13 does not apply for Windows Vista users.

- 13. Specify whether or not to share the printer, and then click [Next >].
- 14. Specify whether or not to print a test page.

If you are using other than Windows Vista, click [Next].

15. Click [Finish].

The printer driver installation starts.



- A user code can be set after the printer driver installation. For information about user code, see the
 printer driver Help.
- Auto Run may not work with certain operating system settings. In that case, launch "Setup.exe" on the CD-ROM root directory.

Installing the PCL/RPCS printer drivers (IPP)



- To install printer driver under Windows 2000/XP/Vista, and Windows Server 2003/2003 R2, you
 must have an account that has Manage Printers permission. Log on as an Administrators or Power
 Users group member.
- 1. Quit all applications currently running.
- 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/RPCS Printer Drivers].
- 5. The software license agreement appears in the [License Agreement] dialog box.

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

6. Select a printer driver you want to use in the [Select Program] dialog box.

You can select several printer drivers.

7. Select the printer model you want to use.

The printer name can be changed in the [Change settings for 'Printer Name'] box.

1

8. Double-click the printer name to display the printer settings.

The details shown in [Comment], [Driver], and [Port] vary depending on the operating system, printer model, and port.

- 9. Click [Port], and then click [Add].
- 10. Click [SmartDeviceMonitor], and then click [OK].
- 11. Click [IPP].
- 12. In the [Printer URL] box, enter "http://printer's IP address/printer" as the printer's address.

If the server authentication is issued, to enable SSL (a protocol for encrypted communication), enter "https://printer's IP address/printer" (Internet Explorer 5.01, or a higher version must be installed). (example IP address: 192.168.15.16)

http://192.168.15.16/printer

https://192.168.15.16/printer

You can enter "http://printer's IP address/ipp" as the printer's address.

 Enter a name for identifying the printer in [IPP Port Name]. Use a name different from the one of any existing ports.

If a name is not specified here, the address entered in the [Printer URL] box becomes the IPP port name.

14. Click [Detailed Settings] to make necessary settings.

For details about the settings, see SmartDeviceMonitor for Client Help.

- 15. Click [OK].
- 16. Check that the port of the selected printer is displayed in [Port].
- 17. Set a user code, if necessary.

Up to 8 numeric characters can be entered. No alphabetic characters or symbols can be entered.

- 18. Select the [Default Printer] check box to configure the printer as default.
- 19. Click [Continue].

Installation starts.

20. After the installation is completed, select one of the options to restart the computer either now or later, and then click [Finish].

Restart the computer to complete the installation.



- To stop installation of the selected software, click [Cancel] before the installation is complete.
- Auto Run may not work with certain operating system settings. In that case, launch "Setup.exe" on the CD-ROM root directory.
- Setting a user code allows a SmartDeviceMonitor for Admin user to display and check the number
 of sheets each user prints. For details, see SmartDeviceMonitor for Admin Help.

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 "Messages Displayed When Installing the Printer Driver".

■ Reference

• p.51 "Messages Displayed When Installing the Printer Driver"

Installing the PostScript 3 printer driver (IPP)

Mportant 🕽

- Installing this printer driver requires Administrators permission. Log on using an account that has Administrators permission.
- You can install the printer driver from the CD-ROM provided with this printer or download it from the supplier's Web site.
- If your operating system is Windows XP Pro x64, Windows Server 2003/2003 R2 x64, you must download the printer driver from the manufacturer's Web site. Select this printer and the operating system you are using, and then download it.
- 1. Quit all applications currently running.
- 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.

The printer driver with the selected language will be installed. The English printer driver is installed when the following language is selected: Suomi, Magyar, Cestina, Polski, Portugues, Russian, Catala, Turkce.

4. Click [PostScript 3 Printer Driver].

Add Printer Wizard starts.

Step 5 does not apply for Windows Vista users.

- 5. Click [Next>].
- 6. Click [Local printer attached to this computer.], and then click [Next >].

If you are using Windows Vista, you do not need to click [Next >].

- 7. Click [Create a new port:].
- 8. Click [DeskTopBinder SmartDeviceMonitor], and then click [Next >].
- 9. Click [IPP].

 In the [Printer URL] box, enter "http://(machine's IP address or host name)/printer" as the printer's address.

If the server authentification is issued, to enable SSL (a protocol for encrypted communication), enter "https://(machine's IP address or host name)/printer" (Internet Explorer 5.01, or a higher version must be installed).

(example IP address: 192.168.15.16)

http://192.168.15.16/printer https://192.168.15.16/printer

You can enter "http://machine's IP address or host name/ipp" as the printer's address.

If the address is "192.168.001.010", you must enter it as "192.168.1.10" to connect to the machine.

11. Enter a name for identifying the printer in [IPP Port Name]. Use a name different from the one of any existing port.

If a name is not specified here, the address entered in the [Printer URL] box becomes the IPP port name.

12. Click [Detailed Settings] to make necessary settings.

If you are using Windows 2000, click [OK] after making necessary settings.

For information about the settings, see DeskTopBinder-SmartDeviceMonitor for Client Help.

- 13. Click [OK].
- 14. Check that the name of the printer driver you want to install is selected, and then click [Next >].
- 15. Change the name of the printer if you want, and then click [Next >].

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

Step 17 does not apply for Windows Vista users.

- 16. Specify whether or not to share the printer, and then click [Next >].
- 17. Specify whether or not to print a test page, and then click [Next >].

If you are using other than Windows Vista, click [Next].

18. Click [Finish].

The printer driver installation starts.



- A user code can be set after the printer driver installation. For information about user code, see the printer driver Help.
- Auto Run may not work with certain operating system settings. In that case, launch "Setup.exe" on the CD-ROM root directory.

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Using the Standard TCP/IP port

This describes how to install the PCL/ RPCS or PostScript 3 printer drivers using the TCP/IP port.

Mportant !

- Installing this printer driver requires Administrators permission. Log on using an account that has Administrators permission.
- To install this printer driver under Windows 2000/XP/Vista, and Windows Server 2003/2003 R2, you must have an account that has Manage Printers permission. Log on as an Administrators or Power Users group member.
- In an IPv6 environment, you cannot use the Standard TCP/IP Port. Use the SmartDeviceMonitor for Client port.
- You can install the printer driver from the CD-ROM provided with this printer or download it from the supplier's Web site.
- If your operating system is Windows XP Pro x64, Windows Server 2003/2003 R2 x64, you must download the printer driver from the manufacturer's Web site. Select this printer and the operating system you are using, and then download it.

Installing the PCL/RPCS Printer Drivers

- 1. Quit all applications currently running.
- 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/RPCS Printer Drivers].
- 5. The software license agreement appears in the [License Agreement] dialog box.

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

6. Select a printer driver you want to use in the [Select Program] dialog box.

You can select several printer drivers.

- 7. Click [Next>].
- 8. Select the printer model you want to use.

The printer name can be changed in the [Change settings for 'Printer Name'] box.

9. Double-click the printer name to display the printer settings.

The details shown in [Comment], [Driver], and [Port] vary depending on the operating system, printer model, and port.

10. Click [Port], and then click [Add].

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11. Click [Standard TCP/IP Port], and then click [OK].

Configure the Standard TCP/IP port settings. See Windows Help if [Standard TCP/IP Port] does not appear.

- 12. Click [Next >] in the [Add Standard TCP/IP Printer Port Wizard] dialog box.
- 13. Enter the printer name or IP address in the [Printer Name or IP Address] box.

The [Port Name] text box automatically obtains a port name. Change this name if necessary.

When the device selection appears, select "RICOH NetworkPrinter Driver C Model".

- 14. Click [Next>].
- 15. Click [Finish] in the [Add Standard TCP/IP Printer Port Wizard] dialog box.

The installation start dialog box reappears.

- 16. Check that the port of the selected printer is displayed in [Port].
- 17. Configure the default printer as necessary.
- 18. Click [Continue].

The printer driver installation starts.

19. After the installation is completed, select one of the options to restart the computer either now or later, and then click [Finish].

Restart the computer to complete the installation.

Installing the PostScript 3 Printer Driver

- 1. Quit all applications currently running.
- 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.

The printer driver with the selected language will be installed. The English printer driver is installed when the following language is selected: Suomi, Magyar, Cestina, Polski, Portugues, Russian, Catala, Turkce.

4. Click [PostScript 3 Printer Driver].

Add Printer Wizard starts.

Step 5 does not apply for Windows Vista users.

- 5. Click [Next>].
- Click [Local printer] or [Local printer attached to this printer], and then click [Next >].

If you are using Windows Vista, you do not need to click [Next].

7. Click [Create a new port:].

8. Click [Standard TCP/IP Port], and then click [Next >].

If you are using other than Windows 2000, [Standard TCP/IP Port] in [Create a new port].

- 9. Click [Next >] in the [Add Standard TCP/IP Printer Port Wizard] dialog box.
- 10. Enter the printer name or IP address in the [Printer Name or IP Address] box.

The [Port Name] text box automatically obtains a port name. Change this name if necessary. When screen for Device selection appears, select "RICOH NetworkPrinter Driver C Model".

- 11. Click [Next>].
- 12. Click [Finish] in the [Add Standard TCP/IP Printer Port Wizard] dialog box.
- Check that the name of the machine whose driver you want to install is selected, and then click [Next >].
- 14. Change the printer name if you want, and then click [Next >].

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

Step 15 does not apply for other than Windows 2000 users.

- 15. Click [Next>].
- 16. Specify whether or not to share the printer, and then click [Next >].
- 17. Specify whether or not to print a test page.

If you are using other than Windows Vista, click [Next >].

18. Click [Finish].

The printer driver installation starts.



- A user code can be set after the printer driver installation. For information about user code, see the
 printer driver Help.
- To stop installation of the selected software, click [Cancel] before the installation is complete.
- Auto Run may not work with certain operating system settings. In that case, launch "Setup.exe" on the CD-ROM root directory.
- 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 "Messages Displayed When Installing the Printer Driver".

Reference

• p.51 "Messages Displayed When Installing the Printer Driver"

Using the LPR port

This describes how to install the PCL/RPCS or PostScript 3 printer drivers using the LPR port.

- To install this printer driver under Windows 2000/XP/Vista, and Windows Server 2003/2003 R2, you must have an account that has Manage Printers permission. Log on as an Administrators or Power Users group member.
- Installing this printer driver requires Administrators permission. Log on using an account that has Administrators permission.
- If you are using other than Windows 2000 in an IPv6 environment, you cannot use the LPR Port. Use the DeskTopBinder-SmartDeviceMonitor port.
- You can install the printer driver from the CD-ROM provided with this printer or download it from the supplier's Web site.
- If your operating system is Windows XP Pro x64, Windows Server 2003/2003 R2 x64, you must download the printer driver from the manufacturer's Web site. Select this printer and the operating system you are using, and then download it.

Installing the PCL/RPCS Printer Drivers

- 1. Quit all applications currently running.
- 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/RPCS Printer Drivers].
- 5. The software license agreement appears in the [License Agreement] dialog box.

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

6. Select a printer driver you want to use in the [Select Program] dialog box.

You can select several printer drivers.

7. Select the printer model you want to use.

The printer name can be changed in the [Change settings for 'Printer Name'] box.

- 8. Click [Next>].
- 9. Double click the printer name to display the printer settings.

The details shown in [Comment], [Driver], and [Port] vary depending on the operating system, printer model, and port.

- 10. Click [Port], and then click [Add].
- 11. Click [LPR Port], and then click [OK].

If [LPR Port] does not appear, see Windows Help and install it.

12. Enter the printer's IP address in the [Name or address of server providing lpd] box.

- 13. Enter "lp" in the [Name of printer or print queue on that server] box, and then click [OK].
 The port is added.
- 14. Check that the port of the selected printer is displayed in [Port].
- 15. Configure the default printer as necessary.
- 16. Click [Continue].

The printer driver installation starts.

17. After the installation is completed, select one of the options to restart the computer either now or later, and then click [Finish].

Restart the computer to complete the installation.

Installing the PostScript 3 Printer Driver

- 1. Quit all applications currently running.
- 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.

The printer driver with the selected language will be installed. The English printer driver is installed when the following language is selected: Suomi, Magyar, Cestina, Polski, Portugues, Russian, Catala, Turkce.

4. Click [PostScript 3 Printer Driver].

Add Printer Wizard starts.

Step 5 does not apply for Windows Vista users.

Select [My Computer], and then click [Next >].

If you are using Windows 2000, you can click [Next >] without selecting [My Computer].

6. Click [Local printer] or [Local Printer attached to this computer], and then click [Next >].

If you are using other than Windows Vista, click [Next>]

- 7. Click [Create a new port:].
- 8. Click [LPR Port], and then click [Next>].

If you are using other than Windows 2000, [Standard TCP/IP Port] in [Create a new port].

- 9. Enter the printer's IP address in the [Name or address of server providing lpd] box.
- 10. Enter "Ip" in the [Name of printer or print queue on that server box], and then click [OK].
- Check that the name of the machine whose driver you want to install is selected, and then click [Next >].
- 12. Change the printer name if you want, and then click [Next >].

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

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Step 13 does not apply for Windows Vista users.

- 13. Specify whether or not to share the printer, and then click [Next >].
- 14. Specify whether or not to print a test page.

If you are using other than Windows Vista, click [Next >].

15. Click [Finish].

The printer driver installation starts.



- A user code can be set after the printer driver installation. For information about user code, see the
 printer driver Help.
- To stop installation of the selected software, click [Cancel] before the installation is complete.
- Auto Run may not work with certain operating system settings. In that case, launch "Setup.exe" on the CD-ROM root directory.
- 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 "Messages Displayed When Installing the Printer Driver".

■ Reference

• p.51 "Messages Displayed When Installing the Printer Driver"

Using the WSD port

This section explains installation when using the WSD port.



- The WSD port can be used only under Windows Vista.
- To install under Windows Vista, you must have an account that has Manage Printers permission. Log
 on as an Administrator.
- If the printer is connected using the WSD port, bidirectional communication is not possible. For details
 about bidirectional communication, see "Making Option Settings for the Printer".
- You can connect to the printer only if both the printer and computer are on the same network segment, or Windows Vista "Network discovery" is enabled. For details, see Windows Help.

Installing the PCL/RPCS Printer Drivers

- 1. Quit all applications currently running.
- 2. On the [Start] menu, click [Network].

The [Network] window appears, and the device search begins automatically.

3. Right-click the printer's icon, and then click [Install].

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

The [Found New Hardware] dialog box appears.

4. Click [Locate and install driver software (Recommended)].

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

- 5. Click [Don't search online].
- 6. Click [Browse my computer for driver software (advanced)].
- 7. Insert the provided CD-ROM into the computer's CD-ROM drive.

If the [AutoPlay] dialog box appears, click the [close] button and then proceed to step 8.

8. Click [Browse...], and then specify a location for the printer driver.

If the CD-ROM drive letter is D, the printer driver's source files are stored in "D: \DRIVERS\RPCS \XP_VISTA\(Language)\DISK1".

9. Click [Next].

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

10. Click [Close].

If installation is successful, the icon of the printer connected to the "WSD" port is added to the [Printers] window.

Installing the PostScript 3 Printer Driver

- 1. Quit all applications currently running.
- 2. Click [Start], and then click [Network].

The [Network] window appears, and the device search begins automatically.

3. Using as the NetWare Print Server / Remote Printer

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

The [Found New Hardware] dialog box appears.

4. Click [Locate and install driver software (Recommended)].

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

The [Found New Hardware] window appears.

- Click [Don't search online].
- 6. Click [Browse my computer for driver software (advanced)].
- 7. Insert the provided CD-ROM into the computer's CD-ROM drive.

If the [AutoPlay] dialog box appears, click the [close] button and then proceed to step 8.

8. Click [Browse...], and then specify a location for the printer driver.

If the CD-ROM drive letter is D, the printer driver's source files are stored in "D:\DRIVERS\PS\ (Language) \XP_VISTA\DISK1".

9. Click [Next].

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

10. Click [Close].

If installation is successful, the icon of the printer connected to the "WSD" port is added to the [Printers] window.



- The port name that follows "WSD" uses random character strings. It cannot be changed freely.
- To stop the installation, click [Cancel] before the installation is complete. When re-installing the WSD Port, right-click the printer's icon in the [Network] window, and then click [Uninstall].

■ Reference

• p.54 "Making Option Settings for the Printer"

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Using as a Windows Network Printer

This describes how to install the PCL, RPCS or PostScript 3 printer driver when using the printer as a Windows network printer.

To use the print server, install the printer driver by selecting "Network printer server", and then select the Windows 2000/XP/Vista, or Windows Server 2003/2003 R2 shared printer.

This section assumes that the client has already been configured to communicate with a Windows 2000/XP/Vista, or Windows Server 2003/2003 R2 print server. Do not begin the following procedure before the client is set up and configured correctly.

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- To install the printer driver under Windows 2000/XP/Vista, and Windows Server 2003/2003 R2, you must have an account that has Manage Printers permission. Log on as an Administrators or Power Users group member.
- If you print with a print server connected to the printer using the SmartDeviceMonitor port, Recovery
 Printing and Parallel Printing cannot be used from the client.
- If you print under Windows XP/Vista or Windows Server 2003/2003 R2 print server, notification functions of SmartDeviceMonitor may not be used with the client.
- Installing this printer driver requires Administrators permission. Log on using an account that has Administrators permission.
- If you print from a print server connected to the printer using the DeskTopBinder-SmartDeviceMonitor port, the client cannot use Recovery Printing and Parallel Printing.
- If you print with a Windows XP or Windows Server 2003/2003 R2 print server, DeskTopBinder-SmartDeviceMonitor notification functions may not be possible for the client.
- You can install the printer driver from the CD-ROM provided with this printer or download it from the supplier's Web site.
- If your operating system is Windows XP Pro x64, Windows Server 2003/2003 R2 x64, you must download the printer driver from the manufacturer's Web site. Select this printer and the operating system you are using, and then download it.

Installing the PCL or RPCS Printer Driver

- 1. Quit all applications currently running.
- 2. Insert the CD-ROM into the CD-ROM drive.

The installer starts.

- Select an interface language, and then click [OK].
 The default interface language is English.
- 4. Click [RPCS Printer Driver] or [PCL Printer Driver].

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5. The software license agreement appears in the [License Agreement] dialog box.

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

6. Select the printer driver you want to use in the [Select Program] dialog box.

You can select several printer drivers.

- 7. Click [Next>].
- 8. Select the [Printer Name] check box to select the printer models you want to use.

The printer name can be changed in the [Change settings for 'Printer Name'] box.

9. Double-click the printer name to display the printer settings.

The details shown in [Comment], Driver, and [Port] vary depending on the operating system, printer model, and port.

- 10. Click [Port], and then click [Add].
- 11. Click [Network Printer], and then click [OK].
- 12. Double-click the computer name you want to use as a print server in the [Browse for Printer] window.
- 13. Select the printer you want to use, and then click [OK].
- 14. Check that the port of the selected printer is displayed in [Port].
- 15. Configure the user code as necessary.

For an RPCS printer driver, a user code can be set after the printer driver installation.

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

- 16. Select the [Default Printer] check box to configure the printer as default.
- 17. Click [Continue].

The printer driver installation starts.

18. After the installation is completed, select one of the options to restart the computer either now or later, and then click [Finish].

Restart the computer to complete installation.

Installing the PostScript 3 Printer Driver

- 1. Quit all applications currently running.
- 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.

The printer driver with the selected language will be installed. The English printer driver is installed when the following language is selected: Suomi, Magyar, Cestina, Polski, Portugues, Russian, Catala, Turkce.

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4. Click [PostScript 3 Printer Driver].

Add Printer Wizard starts.

Step 5 does not apply for Windows Vista users.

- 5. Click [Next>].
- 6. Click [Network printer] or [A network printer, or a printer attached to another computer].
 If you are using other than Windows Vista, click [Next >].
- 7. Select [Browse for a printer], and then click [Next >].

If you are using Windows 2000, select the location method from the [Locate Your Printer] screen before clicking [Next >].

- 8. Double-click the computer name you want to use as a print server in the [Shared printers] window.
- 9. Select the printer you want to use, and then click [Next >].
- 10. The printer driver installation starts.
- 11. Click [Next>].

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

12. Click [Finish].

Restart the computer to complete installation.

■ Note

- A user code can be set after the printer driver installation. For information about user code, see the
 printer driver Help.
- To stop installation of the selected software, click [Cancel] before installation is complete.
- Auto Run may not work with certain operating system settings. In that case, launch "Setup.exe" on the CD⁻ROM root directory.
- 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 "Messages Displayed When Installing the Printer Drive".

Reference

• p.51 "Messages Displayed When Installing the Printer Driver"

Using as a NetWare Print Server / Remote Printer

This describes how to set up the Windows computer used as a NetWare client.

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- To install this printer driver under Windows 2000/XP/Vista, and Windows Server 2003/2003 R2, you must have an account that has Manage Printers permission. Log on as an Administrators or Power Users group member.
- In an IPv6 environment, NetWare servers cannot be used.

The following explanation assumes NetWare Client is installed on the client computer and the NetWare server environment is correctly set up. Install all necessary client applications before following this procedure.

Set up the printer driver while logging on to the NetWare file server.

The following values are used in the example:

• NetWare version: 4.1

• File server name: CAREE

• Queue name: R-QUEUE

1. Insert the CD-ROM into the CD-ROM drive.

The installer starts.

Auto Run may not work with certain operating system settings. In that case, launch "Setup.exe" on the CD-ROM root directory.

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

The default interface language is English.

- 3. Click [RPCS Printer Driver] or [PCL Printer Driver].
- 4. The software license agreement appears in the [License Agreement] dialog box.

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

5. Select the printer driver you want to use in the [Select Program] dialog box.

You can select several printer drivers.

- 6. Click [Next >].
- Select the [Printer Name] check box to select the printer model you want to use.

The printer name can be changed in the [Change settings for 'Printer Name'] box.

8. Double-click the printer name to display the printer settings.

The details shown in [Comment], [Driver], and [Port] vary depending on the operating system, printer model, and port.

- 9. Click [Port], and then click [Add].
- 10. Click [Network Printer], and then click [OK].
- 11. Double-click the name of the NetWare file server on the network tree.

The created queue is displayed.

- 12. Select the print queue, and then click [OK].
- 13. Check that the port of the selected printer is displayed in [Port].
- 14. Click [Continue].

The printer driver installation starts.

- 15. Click [Finish] in the [Select Program] dialog box.
- 16. After the installation is completed, select one of the options to restart the computer either now or later, and then click [Finish].

Restart the computer to complete installation.

17. After restarting the computer, open the printer properties from the [Printers and Faxes] window.

Under Windows 2000 or Windows Server 2003 R2, launch the [Printers] window, and then open the printer properties.

18. Click the [NetWare setting] tab.

Under Windows Vista or Windows Server 2003 R2, on the [Printer Settings] tab, clear the [Form Feed] and [Enable Banner] check boxes.

Do not select these check boxes since they are automatically selected by the printer driver. If you select the check boxes, the printer may not print correctly.

19. Click [OK] to close the printer properties dialog box.



- To stop installation of the selected software, click [Cancel] before installation is complete.
- The protocol is set to inactive as default. Enable it using SmartDeviceMonitor or Telnet.

When using the PostScript 3 Printer Driver



In an IPv6 environment, Netware servers cannot be used.

Follow the procedure below to set up the PostScript 3 printer driver.

1. In the [Printers] or [Printers and Faxes] window, open the printer properties.

2. Click the [PostScript] tab.

When using Windows 2000/XP/Vista, Windows Server 2003/2003 R2, click the [Device Settings] tab, and then proceed to step to clear the check box.

- 3. Click [Advanced].
- 4. Clear the [Send CTRL+D before job] and [Send CTRL+D after job] check boxes, and then click [OK].
- 5. Click [OK] to close the printer properties dialog box.

Form Feed

Do not use NetWare to configure form feed. Form feed is controlled by the printer driver on Windows. If NetWare form feed is configured, the printer may not print properly.

Follow the procedure below to disable form feed according to the operating system used:

 Under Windows 2000/XP/Vista, or Windows Server 2003/2003 R2, clear the [Form feed] check box on the [NetWare Settings] tab in the printer properties dialog box.

Banner Page

Do not use NetWare to configure a banner page.

Follow the procedure below to disable banner pages according to the operating system used:

• Under Windows 2000/XP/Vista, or Windows Server 2003/2003 R2, clear the [Enable banner] check box on the [NetWare Settings] tab in the printer properties dialog box.

Printing after Resetting the Printer

Printer to print server connection requires 30 to 40 seconds to resume after the printer is reset. During this period, jobs may be accepted (depending on NetWare specifications) but not printed.

To print after resetting the printer as a remote printer, check on the print server that the remote printer is disconnected, or wait for two minutes before trying to print.

Installing the Printer Driver Using USB

This section explains how to install printer drivers using USB.

Before installing, check that only the operating system is running on the computer and no print jobs are in progress.

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

Windows 2000/XP, Windows Server 2003/2003 R2 - USB

 Installing a printer driver requires Administrators permission. Log on using an account that has Administrators permission.

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 that the power of the printer is off.
- 2. Connect the printer and computer using the USB cable.

Connect the USB cable firmly.

3. Turn on the power of the printer.

Found New Hardware Wizard starts, and USB Printing Support is installed automatically.

- 4. In the Found New Hardware Wizard display, 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 printer driver are stored in the following locations:

- RPCS
 - D:\DRIVES\RPCS\WIN2K_XP\(Language)\DISK1
- PCL 5c

D:\DRIVES\PCL5C\WIN2K_XP\(Language)\DISK1

PCL 6

D:\DRIVES\PCL6\WIN2K_XP\(Language)\DISK1

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PostScript 3

D:\DRIVES\PS3\WIN2K_XP\(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.



- 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.

Windows Vista - USB



 Installing a printer driver requires Administrators permission. Log on using an account that has Administrators permission.

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.

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

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 that the power of the printer is off.
- 2. Connect the printer and computer using a USB cable.

Connect the USB cable firmly.

3. Turn on the power of the printer.

Found New Hardware Wizard starts, and USB Printing Support is installed automatically.

- 4. In the Found New Hardware Wizard display, click [Search for a suitable driver for my device [recommended]], and then click [Next >].
- 5. Insert the CD-ROM into the CD-ROM drive.

If Auto Run starts, click [Cancel], and then [Exit].

6. Select the [Include this location in the search] check box under [Search for the best driver in these location], and then click [Browse] to select the printer driver location.

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

RPCS

D:\DRIVES\RPCS\WIN2K_XP\(Language)\DISK1

PCL 5c

D:\DRIVES\PCL5C\WIN2K_XP\(Language)\DISK1

PCL 6

 $D:\DRIVES\PCL6\WIN2K_XP\(Language)\DISK1$

PostScript 3

D:\DRIVES\PS3\WIN2K_XP\(Language)\DISK1

- 7. Check the printer driver location, and then click [Next >].
- 8. Click [Continue].
- 9. Click [Finish].

If the installation is successful, the icon of the printer connected to the "USB001" port is added to the [Printers and Faxes] window.



- 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.

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 [Universal Serial Bus controllers], remove any conflicting devices. Conflicting devices have a [!] or [?] icon by them. Take care not to accidentally remove required devices. For details, see Windows Help.
	When using Windows 2000/XP or Windows Server 2003, an erroneous device is displayed under [USB Controller] in the [Device Manager] dialog box.

Printing with Parallel Connection

This describes how to install the PCL, RPCS or PostScript 3 printer driver when using a parallel port.

To use a printer connected using a parallel interface, click [LPT1] when installing the printer driver.

- To install this printer driver under Windows 2000/XP/Vista, and Windows Server 2003/2003 R2, you must have an account that has Manage Printers permission. Log on as an Administrators or Power Users group member.
- Installing this printer driver requires Administrators permission. Log on using an account that has Administrators permission.
- If you are using Windows 2000, you can install the printer driver from the CD-ROM provided with this printer or download it from the supplier's Web site.
- If your operating system is Windows XP Pro x64, Windows Server 2003/2003 R2 x64, you must download the printer driver from the manufacturer's Web site. Select this printer and the operating system you are using, and then download it.

Installing the PCL or RPCS Printer Driver

- 1. Quit all applications currently running.
- 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 [RPCS Printer Driver] or [PCL Printer Driver].
- 5. The software license agreement appears in the [License Agreement] dialog box.

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

6. Select the printer driver you want to use in the [Select Program] dialog box.

You can select several printer drivers.

- 7. Click [Next>].
- 8. Select the [Printer Name] check box to select the printer model you want to use.

The printer name can be changed in the [Change settings for 'Printer Name'] box.

9. Double-click the printer name to display the printer settings.

The details shown in [Comment], [Driver], and [Port] vary depending on the operating system, printer model, and port.

- 10. Check that [LPT1:] is shown in [Port].
- 11. Select the [Default Printer] check box to configure the printer as default.

12. Click [Finish].

The printer driver installation starts.

13. After the installation is completed, select one of the options to restart the computer either now or later, and then click [Finish].

Restart the computer to complete installation.

Installing the PostScript 3 Printer Driver

- 1. Quit all applications currently running.
- 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.

The printer driver with the selected language will be installed. The English printer driver is installed when the following language is selected: Suomi, Magyar, Cestina, Polski, Portugues, Russian, Catala, Turkce.

4. Click [PostScript 3 Printer Driver].

Add Printer Wizard starts.

Step 5 does not apply for Windows Vista users.

5. Click [Next >].

The following procedure depends on your operation system.

Windows 2000:

1. [Local printer], and then click [Next>].

A dialog box for selecting the printer manufacturer and model name appears.

- 2. Select [LPT1] at the [Printer Port] dialog box, and then click [Next >].
- 3. Select whether or not to share the printer, and then click [Next >].
- 4. Select the name of the machine whose driver you want to install, and then click [Next >].
- 5. Specify whether or not to print a test page, and then click [Finish].

The printer driver installation starts.

Restart the computer to complete installation.

Other than Windows 2000:

1. Click [Local printer attached to this computer].

If you are using other than Windows Vista, click [Next].

2. Select the port you want to use, and then click [Next >].

A dialog box for selecting the printer manufacturer and model name appears.

- 3. Select the name of the machine whose driver you want to install, and then click [Next >].
- 4. Click [Close] to close the [Printer Port] dialog box.
- 5. Click [Next>].
- 6. Change the printer name if you want, and then click [Next >].

Step 7 does not apply for Windows Vista users.

- 7. Select whether or not to share the printer, and then click [Next >].
- 8. Specify whether or not to print a test page, and then click [Finish].

The printer driver installation starts.

Restart the computer to complete installation.



- A user code can be set after the printer driver installation. For information about user code, see the
 printer driver Help.
- To stop installation of the selected software, click [Cancel] before installation is complete.
- Auto Run may not work with certain operating system settings. In that case, launch "Setup.exe" on the CD-ROM root directory.
- 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 "Messages Displayed When Installing the Printer Driver".

Reference

• p.51 "Messages Displayed When Installing the Printer Driver"

Messages Displayed When Installing the Printer Driver

This section describes what to do if a message appears when installing the printer driver.

Message number 58 or 34 indicates that the printer driver cannot be installed using Auto Run. Install the printer driver using [Add Printer] or [Install Printer].

Message number 58 appears if there is a newer version of the printer driver already installed.

Windows 2000

This section describes the procedure under 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 Add Printer Wizard.

If the printer driver is on a CD-ROM, the location of the driver is \DRIVERS\(RPCS, PCL6, or PCL5E) \XP_VISTA\(language)\DISK1. If the installer starts, click [Cancel] to quit.

4. Specify a port.



 Available ports vary according to your Windows operating system or the type of interface. For details, see "Installing the Printer Driver".

Reference

• p.21 "Installing the Printer Driver"

Windows XP Professional or Windows Server 2003/2003 R2

This section describes the procedure under Windows XP Professional or Windows Server 2003/2003 R2.

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

If the printer driver is on a CD-ROM, the location of the driver is \DRIVERS\(RPCS, PCL6, or PCL5E) \XP_VISTA\(language)\DISK1. If the installer starts, click [Cancel] to quit.

4. Specify a port.



 Available ports vary according to your Windows operating system or the type of interface. For details, see "Installing the Printer Driver".

■ Reference

• p.21 "Installing the Printer Driver"

Windows XP Home Edition

This section describes the procedure under Windows XP Home Edition.

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

If the printer driver is on a CD-ROM, the location of the driver is \DRIVERS\(RPCS, PCL6, or PCL5E) \XP_VISTA\(language)\DISK1. If the installer starts, click [Cancel] to quit.

6. Specify a port.



 Available ports vary according to your Windows operating system or the type of interface. For details, see "Installing the Printer Driver".

Reference

• p.21 "Installing the Printer Driver"

Windows Vista

This section describes the procedure under Windows Vista.

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

If the printer driver is on a CD-ROM, the location of the driver is \DRIVERS\(RPCS, PCL6, or PCL5E) \XP_VISTA\(language)\DISK1. If the installer starts, click [Cancel] to quit.

6. Specify a port.

• Available ports vary according to your Windows operating system or the type of interface. For details, see "Installing the Printer Driver".

■ Reference

• p.21 "Installing the Printer Driver"

Making Option Settings for the Printer

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

Conditions for Bidirectional Communication

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

- Bidirectional communication is supported by Windows 2000/XP/Vista, and Windows Server 2003/2003 R2.
- If you use the RPCS printer driver and bidirectional communication is enabled under Windows 2000, the [Change Accessories] tab is unavailable.

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

When connected with parallel cables

- The computer must support bidirectional communication.
- The printer must support bidirectional communication.
- The interface cable must support bidirectional communication.
- The printer must be connected to a computer using the standard parallel cables and parallel connectors.
- Under Windows 2000, [Enable bidirectional support] must be selected, and [Enable printer
 pooling] must not be selected on the [Ports] tab with the RPCS printer driver.

When connected with a network

- The printer must support bidirectional communication.
- SmartDeviceMonitor for Client included on the CD⁻ROM must be installed, and TCP/IP must be
 used.
- Under Windows 2000/XP/Vista, Windows Server 2003/2003 R2, [Enable bidirectional support] must be selected, and [Enable printer pooling] must not be selected on the [Ports] tab with the RPCS printer driver.
- In addition to the above, one of the following conditions must also be met:
 - The SmartDeviceMonitor for Client port and the TCP/IP protocol must be used.
 - IPP port name must include the IP address when using the IPP protocol.

When connected with USB

- The printer must be connected to the computer's USB port using a USB interface cable (for Windows 2000/XP/Vista, Windows Server 2003/2003 R2).
- The computer must support bidirectional communication.

- **U** Note
 - The RPCS printer driver supports bidirectional communication and updates the printer status automatically.
 - The PCL printer driver supports bidirectional communication. You can update the printer status manually.
 - Install SmartDeviceMonitor for Client from the supplied CD-ROM.

If Bidirectional Communication Is Disabled

Set up option settings when bidirectional communication is disabled.

- Mportant (
 - Under Windows 2000/XP/Vista, and Windows Server 2003/2003 R2, 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, click [Printers and Faxes].

The [Printers and Faxes] window appears.

When using Windows 2000, point to [Settings] on the [Start] menu, and then click [Printers]. The [Printers] window appears.

When using Windows Vista, click [Control Panel] on the [start] menu, and then click [Printer]. The [Printers] window appears.

- 2. Click the icon of the printer you want to use.
- 3. On the [File] menu, click [Properties].

When using Windows Vista, right-click the icon of the printer you want to use, and then click [Properties].

4. Click the [Change Accessories] tab.

If options in the [Change Accessories] tab are disabled, bidirectional connection is enabled. In this case, no change is necessary for option settings.

If you are using the RPCS printer driver, click the [Change Accessories] tab.

- 5. Select options installed from the [Select printer options:] area, and then make the necessary settings.
- Select the total amount of the memory in [Total memory:] when the optional SDRAM module is added.
- 7. Under [Paper source tray settings:], click the tray to be used, and then select the appropriate size, position, and type for the tray. Select the [Do not use Auto Tray Select] check box to exclude the tray from the targets of automatic tray selection.
- 8. Click [OK] to close the printer properties dialog box.

7

Installing Font Manager

Important

- Under Windows 2000 /XP/Vista, and Windows Server 2003/2003 R2, installing applications by Auto Run requires Administrator privilege. To install a printer driver by Auto Run, log on using an account that has Administrator privilege.
- 1. Quit all applications currently running.
- Insert the "Font Manager" CD-ROM into the CD-ROM drive.The installer starts.
- 3. Click [Font Manager].
- 4. Follow the instructions on the display.

Using Adobe PageMaker Version 6.0, 6.5, or 7.0

Under Windows 2000/XP, or Windows Server 2003/2003 R2 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 "XP_VISTA" folder inside the "PS" folder is for Windows 2000/XP, Windows Server 2003/2003 R2. Use the folder that is appropriate for the operating system you are currently using.

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.



- 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.
 - On the [File] menu, click [Print].
 The [Print Document] dialog box appears.
 - 2. Make the necessary settings in the [Features] box.

1

Memory Capacity and Paper Size

Additional memory apart from the standard memory may be required depending on the paper size and data type.



 When printing from the bypass tray, duplex printing will not be supported regardless of the memory capacity, and only one-side will be printed.

One-sided printing (600 × 600 dpi)

Memory Capacity	Printable paper sizes
256 MB (standard)	A3, B4 JIS, A4, B5 JIS, A5, $11"\times17"$, $8^1/_2"\times14"$, $8^1/_2"\times11"$, Postcard sized paper, 305×600 mm (12.2×24 inches), 297×432 mm (11.7×17 inches), 305×1260 mm (12.2×50.4 inches) * 1
384 MB (standard and 128 MB)	A3, B4 JIS, A4, B5 JIS, A5, 11"×17", 81/2"×14", 81/2"×11", Postcard sized paper, and 305 × 600 mm (12.2 × 24 inches), 297 × 432 mm (11.7 × 17 inches), 305 × 1260 mm (12.2 × 50.4 inches)
512 MB (standard and 256 MB)	A3, B4 JIS, A4, B5 JIS, A5, $11"\times17"$, $8^1/_2"\times14"$, $8^1/_2"\times11"$, Postcard sized paper, 305×600 mm (12.2×24 inches), 297×432 mm (11.7×17 inches), 305×1260 mm (12.2×50.4 inches)

^{*1} The paper size may not be printed, depending on the printing data.

Duplex printing (600 × 600 dpi)

Memory Capacity	Printable paper sizes
256 MB (standard)	A3, B4 JIS, A4, B5 JIS, A5, and 8 ¹ / ₂ "×11", 11"×17", 8 ¹ / ₂ "×14"
384 MB (standard and 128 MB)	A3, B4 JIS, A4, B5 JIS, A5, 8 ¹ / ₂ "×14", 8 ¹ / ₂ "×11", 11"×17"
512 MB (standard and 256 MB)	A3, B4 JIS, A4, B5 JIS, A5, 8 ¹ / ₂ "×14", 8 ¹ / ₂ "×11", 11"×17"

2

2. Setting Up the Printer Driver

PCL - Accessing the Printer Properties

Windows 2000 - Accessing the Printer Properties

Making printer default settings - the printer properties

Mportant (

- To change the printer's default settings (including settings for options), log on using an account that
 has Manage Printers permission. Members of the Administrator and Power Users groups have
 Manage Printers permission by default.
- You cannot change the printer default settings for individual users. Settings made in the [Printer Properties] dialog box are applied to all users.
- 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.
- On the [File] menu, click [Properties].
 The [Printer Properties] dialog box appears.
- 4. Make the settings you require, and then click [OK].



- The settings you make here are used as the default settings for all applications.
- For details, see the printer driver Help.

Making printer default settings - printing preferences

Mportant !

- You cannot change the printer default settings for individual users. Settings made in the [Printer Properties] dialog box are applied to all users.
- 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.
- On the [File] menu, click [Printing Preferences...].
 The [Printing Preferences] dialog box appears.

4. Make the settings you require, and then click [OK].



- The settings you make here are used as the default settings for all applications.
- For details, 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 procedure explains how to make printer settings for a specific application using Windows 2000 Wordpad as an example.

- On the [File] menu, click [Print...].
 The [Print] dialog box appears.
- 2. In the [Select Printer] list, select the printer you want to use.
- 3. Make the settings you require, and then click [OK].



- Procedures for opening the [Printing Preferences] dialog box vary depending on the application. For
 details, see the manuals provided with the application.
- Any settings you make using this procedure apply to 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 the application.
- For details, see the printer driver Help.

Windows XP, Windows Server 2003/2003 R2 - Accessing the Printer Properties

Making printer default settings - the printer properties

- To change the printer's default settings (including settings for options), 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 individual users. 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.
- On the [File] menu, click [Properties].
 The [Printer Properties] dialog box appears.
- 4. Make the settings you require, and then click [OK].



- The settings you make here are used as the default settings for all applications.
- For details, see the printer driver Help.

Making printer default settings - printing preferences



- You cannot change the printer default settings for individual 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.
- On the [File] menu, click [Printing Preferences...].

The [Printing Preferences] dialog box appears.

4. Make the settings you require, and then click [OK].



- The settings you make here are used as the default settings for all applications.
- For details, 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 procedure explains how to make printer settings for a specific application using Windows XP Wordpad as an example.

1. On the [File] menu, click [Print...].

The [Print] dialog box appears.

- 2. In the [Select Printer] list, select the printer you want to use.
- 3. Click [Preferences].

The [Printing Preferences] dialog box appears.

4. Make the settings you require, and then click [OK].



- Procedures for opening the [Printing Preferences] dialog box vary depending on the application. For
 details, see the manuals provided with the application.
- Any settings you make using this procedure apply to the current application only.
- General users can change the properties displayed in the [Print] dialog box of an application. Settings made here are used the defaults when printing from the application.
- For details, see the printer driver Help.

Windows Vista - Accessing the Printer Properties

Making printer default settings - the printer properties

- To change the printer's default settings (including settings for options), log on using an account that
 has Manage Printers permission. Members of the Administrators group have Manage Printers
 permission by default.
- You cannot change the printer default settings for individual users. Settings made in the [Printer Properties] dialog box are applied to all users.
- 1. On the [Start] menu, click [Control Panel].
- 2. The [Control Panel] window appears.
- 3. In "Hardware and Sound", click [Printer].
- 4. Right-click the icon of the printer you want to use, and then click [Properties].
 The [Printer Properties] dialog box appears.
- 5. Make the settings you require, and then click [OK].



- The settings you make here are used as the default settings for all applications.
- For details, see the printer driver Help.

Making printer default settings - printing preferences



 You cannot change the printer default settings for individual user. Settings made in the [Printing Preferences] dialog box are applied to all users. 1. On the [Start] menu, click [Control Panel].

The [Control Panel] window appears.

- 2. Click [Printer] in "Hardware and Sound".
- 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 settings you require, and then click [OK].



- The settings you make here are used as the default settings for all applications.
- For details, 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 procedure explains how to make printer settings for a specific application using Windows Vista Wordpad as an example.

- 1. On the [File] menu, click [Print...].
 - The [Print] dialog box appears.
- 2. In the [Select Printer] list, select the printer you want to use.
- 3. Click [Preferences].

The [Printing Preferences] dialog box appears.

4. Make the settings you require, and then click [OK].



- Procedures for opening the [Printing Preferences] dialog box vary depending on the application. For
 details, see the manuals provided with the application.
- Any settings you make using this procedure apply to the current application only.
- General users can change the properties displayed in the [Print] dialog box of an application. Settings
 made here are used the defaults when printing from the application.
- For details, see the printer driver Help.

RPCS - Accessing the Printer Properties

There are two dialog box types of the [Printer Properties] dialog box.

"Multi-tab" is used as an example in this manual. For details about changing the dialog box types, see the printer driver Help.

Multi-tab

This dialog box type is designed for users who often change print settings to perform various printing operations.

Custom Setting

This dialog box type is designed for users who rarely change print settings. This type of dialog box may vary depending on the installed options.

Windows 2000 - Accessing the Printer Properties

Making printer default settings - the printer properties

- To change the printer's default settings (including settings for options), 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 individual users. 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.
- On the [File] menu, click [Properties].

The [Printer Properties] dialog box appears.

When you open the [Printer Properties] dialog box for the first time after installing the RPCS printer driver, a confirmation message appears. After you click [OK], the [Printer Properties] dialog box appears.

4. Make the settings you require, and then click [OK].



- The settings you make here are used as the default settings for all applications.
- For details, see the printer driver Help.

Making printer default settings - printing preferences



- You cannot change the printer default settings for individual users. Settings made in the [Printer Properties] dialog box are applied to all users.
- 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.
- On the [File] menu, click [Printing Preferences...].
 The [Printing Preferences] dialog box appears.
- 4. Make the settings you require, and then click [OK].



- The settings you make here are used as the default settings for all applications.
- For details, 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 procedure explains making printer settings for Windows 2000 WordPad as an example of how to make printer settings for a specific application.

- 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 settings you require, and then click [OK].



- Procedures for opening the [Printing Preferences] dialog box vary depending on the application. For
 details, see the manuals provided with the application.
- Any settings you make using this procedure apply to the current application only.
- General users can change the properties displayed in the [Print] dialog box of an application. Settings
 made here are used the defaults when printing from the application.
- For details, see the printer driver Help.

Windows XP, Windows Server 2003/2003 R2 - Accessing the Printer Properties

Making printer default settings - the printer properties



- To change the printer's default settings (including settings for options), 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 individual users. Settings made in the [Printer Properties] dialog box are applied to all users.
- 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.

When you open the [Printer Properties] dialog box for the first time after installing the RPCS printer driver, a confirmation message appears. After you click [OK], the [Printer Properties] dialog box appears.

4. Make the settings you require, and then click [OK].



- The settings you make here are used as the default settings for all applications.
- For details, see the printer driver Help.

Making printer default settings - printing preferences



- You cannot change the printer default settings for individual users. 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 settings you require, and then click [OK].



- The settings you make here are used as the default settings for all applications.
- For details, 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 procedure explains making printer settings for Windows XP WordPad as an example of how to make printer settings for a specific application.

- On the [File] menu, click [Print...].
 The [Print] dialog box appears.
- 2. In the [Select Printer] list, select the printer you want to use.
- Click [Preferences].
 The [Printing Preferences] dialog box appears.
- 4. Make the settings you require, and then click [OK].



- Procedures for opening the [Printing Preferences] dialog box vary depending on the application. For
 details, see the manuals provided with the application.
- Any settings you make using this procedure apply to the current application only.
- General users can change the properties displayed in the [Print] dialog box of an application. Settings made here are used the defaults when printing from the application.
- For details, see the printer driver Help.

Windows Vista - Accessing the Printer Properties

Making printer default settings - the printer properties



- To change the printer's default settings (including settings for options), log on using an account that
 has Manage Printers permission. Members of the Administrators group have Manage Printers
 permission by default.
- You cannot change the printer default settings for individual users. 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 [Printer] in "Hardware and Sound".
- 3. Right-click the icon of the printer you want to use, and then click [Properties].

The [Printer Properties] dialog box appears.

When you open the [Printer Properties] dialog box for the first time after installing the RPCS printer driver, a confirmation message appears. After you click [OK], the [Printer Properties] dialog box appears.

4. Make the settings you require, and then click [OK].



- The settings you make here are used as the default settings for all applications.
- For details, see the printer driver Help.

Making printer default settings - printing preferences



- You cannot change the printer default settings for individual users. Settings made in the [Pinter Preferences] dialog box are applied to all users.
- 1. On the [Start] menu, click [Control Panel].

The [Control Panel] window appears.

- 2. Click [Printer] 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 settings you require, and then click [OK].



- The settings you make here are used as the default settings for all applications.
- For details, 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 procedure explains making printer settings for Windows Vista WordPad as an example of how to make printer settings for a specific application.

1. On the [File] menu, click [Print...].

The [Print] dialog box appears.

- 2. In the [Select Printer] list, select the printer you want to use.
- 3. Click [Preferences].

The [Printing Preferences] dialog box appears.

4. Make the settings you require, and then click [OK].



- Procedures for opening the [Printing Preferences] dialog box vary depending on the application. For details, see the manuals provided with the application.
- Any settings you make using this procedure apply to the current application only.
- General users can change the properties displayed in the [Print] dialog box of an application. Settings made here are used the defaults when printing from the application.
- For details, see the printer driver Help.

PostScript 3 - Setting Up for Printing

Windows 2000/XP, Windows Server 2003/2003 R2 - Accessing the Printer Properties

Making Printer Default Settings - The Printer Properties

Mportant !

- 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.
- 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.
- On the [File] menu, click [Properties].
 The [Printer Properties] dialog box appears.
- 4. Make the necessary settings, and then click [OK].



- Settings you make here are used as the default settings for all applications.
- Do not make a setting for [Form to Tray Assignment].
- For details about settings, see the printer driver Help.

Making Printer Default Settings - Printing Preferences



- You cannot change the printer default settings for each user. Settings made in the [Printer Properties]
 dialog box are applied to all users.
- 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].



- Settings you make here are used as the default settings for all applications.
- 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.

- 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.



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

Windows Vista - Accessing the Printer Properties

Making Printer Default Settings - The Printer Properties



- To change the printer default settings including option configuration settings, log on using an account
 that has Full Control permission. Members of the Administrators, Server Operators, Print Operators,
 and Power Users groups have Full Control 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.
- 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].



- Settings you make here are used as the default settings for all applications.
- Do not make a setting for [Form to Tray Assignment].
- For details about settings, see the printer driver Help.

Making Printer Default Settings - Default



- To change the printer default settings including option configuration settings, log on using an account
 that has Full Control permission. Members of the Administrators, Server Operators, Print Operators,
 and Power Users groups have Full Control 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.
- 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.
- On the [File] menu, click [Document Defaults...].
 The [Default] dialog box appears.
- 4. Make the necessary settings, and then click [OK].



- Settings you make here are used as the default settings for all applications.
- 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 [Printer Properties] dialog box from that application. The following explains how to make settings for the WordPad application provided with Windows Vista.

- On the [File] menu, click [Print].
 The [Print] dialog box appears.
- 2. Select the printer you want to use in the [Name:] list, and then click [Properties].

The [Printer Properties] dialog box appears.

- 3. Make the necessary settings, and then click [OK].
- 4. Click [OK] to start printing.



- The procedure to open the [Printer Properties] dialog box may vary depending on the application. For details, see the manuals provided with the application you use.
- With some applications, the printer driver settings are not used, and the application's own default settings are applied.
- Any settings you make in the following procedure 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.
- For details about settings, see the printer driver Help.

Mac OS - Setting Up for Printing

Making Paper Settings from an Application

- 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 [Printer:], and then select the paper size you want to use in [Paper:].

Under Mac OS X, select the paper size in [Paper Size].

If the printer you want to use is not displayed in [Printer:], select the printer you want to use.

4. Configure the settings, and then click [OK].



• The [Page Setup] dialog box varies depending on the application you use. For details, see the manuals provided with the Mac OS.

Setting up for Printing from an Application

- 1. Open the file you want to print.
- 2. On the [File] menu, click [Print].
- 3. Check that the printer is selected in the [Printer] list, and then make the printer settings.
- 4. Configure the settings, and then click [OK].

5.

3. Other Print Operations

Printing a PDF File Directly

You can send PDF files directly to the printer for printing, without having to open a PDF application.

Mportant)

- This function is possible only when the optional PostScript 3 unit is installed.
- This function is possible for genuine Adobe PDF files only.
- Version 1.3, 1.4, 1.5, and 1.6 PDF files are compatible.
- PDF files created using PDF version 1.5 Crypt Filter functions or more than eight DeviceN Color Space components cannot be printed.
- PDF files created using PDF version 1.6 watermark note functions, extended optional contents, or page size exceeds 5.08 m cannot be printed.
- PDF version 1.7 (Acrobat 8.0) files created without any functions that are exclusive to PDF version 1.7 can be printed.
- Some types of High Compression PDF files may not be printed.



Paper size errors may occur when printing on custom size paper.

Printing Method

There are the two methods of printing the PDF files directly, either using the DeskTopBinder Lite, or entering commands.

Using DeskTopBinder Lite

Installing DeskTopBinder Lite

Use this procedure to install DeskTopBinder Lite.

- 1. Quit all applications currently running.
- 2. Insert the "Printer Driver and Utilities" CD-OM into the CD-OM drive.

The installer starts.

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

3. Click [DeskTopBinder Lite].

The [DeskTopBinder Lite] dialog box appears.

- 4. Click [DeskTopBinder Lite], and then click [OK].
- 5. Follow the instructions on the display to install DeskTopBinder Lite.

If you are required to restart the computer after installing DeskTopBinder Lite, restart the computer and continue the configuration.

DeskTopBinder Lite enhancements

Follow the DeskTopBinder Lite enhancement procedure to print PDF files directly.

 On the [Start] menu, point to [All Programs], [DeskTopBinder], and then click [Extended Features Wizard].

The [Extended Features Wizard] dialog box appears.

- 2. Click [Start], and then click [Next>] repeatedly until the [Printing Function2] dialog box appears.
- In the [Printing Function2] dialog box, click [Add...].

The [PDF Direct Print Properties] dialog box appears.

4. Select the driver for this printer, and then click [OK].

The [PDF Direct Print Properties] dialog box closes.

- 5. Click [Next>] repeatedly until [Finish] appears.
- 6. Click [Finish].

Function palette

The Function palette contains buttons for functions that are already configured through DeskTopBinder Lite enhancement. Using these buttons, you can print Windows files, preview printouts, convert images, and register scanners for documents without having to open DeskTopBinder Lite. You can also use these functions simply by dragging a target file to the button corresponding to the required function and dropping it there.

 On the [Start] menu, point to [All Programs], [DeskTopBinder], and then click [Function Palette].

An icon for the Function palette is added to the task tray displayed at the bottom right of the screen.

2. Right-click the new icon that has been added to the task tray, and then click [Properties].

The [Properties] dialog box appears.

Click the [Contents] tab, select the [PDF Direct Print] check box at the center, and then click [OK].

The [Properties] screen closes and the [PDF Direct Print] icon is added to the palette.

PDF direct printing

Follow the procedure below to print PDF files directly.

 Drag the PDF file you want to print to the PDF Direct Printing icon in the palette and drop it there.

The [Output File List-PDF Direct Print] dialog box appears.

2. Highlight the PDF you want to print, and then click [OK].

The PDF file is printed.

Printing PDF password-protected documents

Follow the procedure below to print password- protected PDF files.

1. On the [Start] menu, point to [All Programs], [DeskTopBinder], and then click [Extended Features Wizard].

The [Extended Features Wizard] dialog box appears.

- 2. Click [Start], and then click [Next>] repeatedly until the [Printing Function2] dialog box appears.
- 3. In the [Printing Function2] dialog box, click [Properties].

The [PDF Direct Print Properties] dialog box appears.

- 4. Select the [Use PDF Password] check box at the bottom right of the dialog box, and then click [OK].
- Click [Next>] repeatedly until [Finish] appears.
- 6. Click [Finish].

The [Extended Features Wizard] dialog box closes.

Drag the PDF file you want to print over the PDF Direct Printing icon on the Function Palette and drop it there.

The [Output File List-PDF Direct Print] dialog box appears.

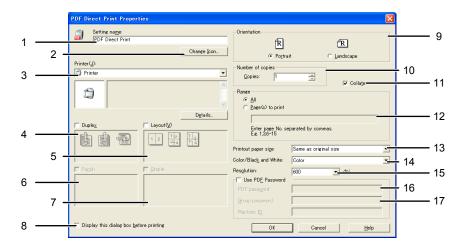
- 8. Click on the PDF file you want to print, making it appear highlighted, and then click [OK].
 The [PDF Direct Print Properties] dialog box appears.
- In the [PDF password:] box at the bottom right of the dialog box, enter the password for the PDF file you want to print, and then click [OK].

The password-protected PDF file is printed.



- Before printing a password-protected PDF file, perform one of the followings:
 - In the [PDF Direct Print Properties] dialog box, enter the password for the PDF file you want to print
 - Specify a password for the PDF file by selecting [Change PDF Password] in the [PDF Menu] on the printer's control panel.
- If a [PDF Group Password] for the [PDF Menu] has been specified using DeskTopBinder Lite or the printer's control panel, the same group password must be set on the other also.

PDF Direct Print Properties



BAC010S

1. Setting name:

Displays the plug⁻in configuration name (up to 63 single byte characters)

2. Change Icon...

Changes the icon displayed on the tool bar.

3. Printer

Displays a list of RPCS drivers that support PDF direct printing.

4. Duplex

Prints on both sides of sheets.

5. Layout

Prints multiple pages on a single sheet.

6. Punch

Punches holes in printed sheets.

7. Staple

Staples together printed sheets.

8. Display this dialog box before printing

Appears in PDF direct printing mode if this check box is selected.

9. Orientation:

Specify the original's orientation.

10. Number of copies

Specify the number of copies to print.

11. Collate

Sorts printed sheets.

12. Range

Specify which paper to print.

13. Printout paper size:

Specify the paper size you want copies to be printed onto.

14. Color/Black and White: (not available for this printer)

Specify color or black and white printing.

15. Resolution:

Specify a print resolution.

16. PDF password:

Enter the password for password-protected PDF files. A password-protected PDF file cannot be printed unless its password is entered here.

17. Group password:

If a group password is assigned to DeskTopBinder Lite and this printer, enter the group password in this field. The group password must be entered for printing to start.

Using Commands

You can print PDF files directly, using commands such as "ftp", "sftp", and "lpr".

For details about UNIX commands, see UNIX supplement.

Unauthorized Copy Control

You can embed patterns and text under printed text to prevent unauthorized copying of the document. Unauthorized Copy Control consists of two functions: [Data security for copying] and [Mask type:].



 This function is designed to discourage copying of confidential documents; it does not prevent unauthorized use of information.

Opening the Unauthorized Copy Control Window

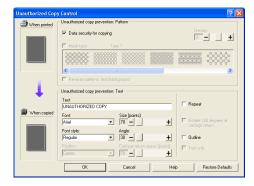
- 1. In the RPCS printer driver, open the [Printing Preference] window.
- 2. Click [Add/Change Custom Settings...].
- 3. Select the [Unauthorized copy...] check box.
- Click [Control Settings...].
 The Unauthorized Copy Control window appears.



• For details, see the printer driver Help.

Using [Data security for copying]

You can embed a print pattern by setting it in the printer driver.

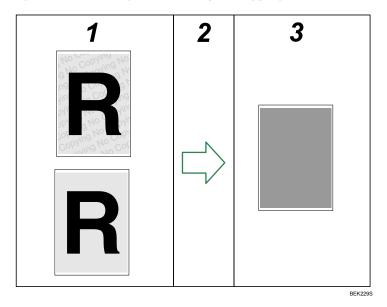


Setting [Data security for copying] in the printer driver

- Select the [Data security for copying] check box. You can also enter the text in the [Text:] box.
- You cannot select the [Mask type:] check box at the same time.
- To print a document protected by gray overprint, the printer must be set up correctly. Consult
 your administrator.

3

Printing a document using [Data security for copying]

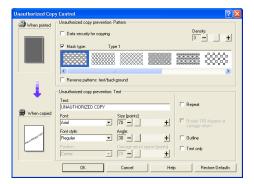


- 1. The pattern and text you have set is printed.
- The document is copied or stored in copiers / multifunction machines which the optional Copy Data Security unit is installed.
- 3. The document is blanked by vertical stripes overprint.



- When printing a document that is set with [Data security for copying], the printer does not require the
 optional Copy Data Security unit to be installed. The Copy Data Security unit is required when copying
 or storing a document protected by vertical stripes overprint.
- Only the RPCS printer driver is supported.
- Printing at 200 × 200 dpi is not possible.
- You cannot partially embed a pattern and text in a document.
- To make the embedded pattern clear, set the character size at least 50 pt (preferably 70 to 80 pt) and character angle to between 30 and 40 degrees.
- Use 182×257 mm ($7^{1}/_{4} \times 10^{1}/_{2}$ inches) or larger paper.
- Use ordinary or recycled paper of at least 70% whiteness.
- Duplex printing may interfere with this function as a result of text and patterns being visible through the paper.
- For details about setting [Data security for copying], see the printer driver Help.

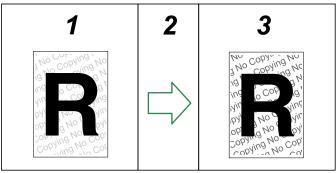
You can embed patterns and texts in a document by setting in the printer driver to prevent unauthorized copying.



Setting [Mask type:] in the printer driver

- Select a pattern from [Mask type:], and then enter texts in the [Text:] box.
- You can set only [Text:], but [Mask type:] and [Text:] must be set together.

Printing a document using [Mask type:]



BEK228S

- 1. The pattern and text you have set is printed palely.
- 2. The document is copied, scanned, or stored in copiers/ multifunction machines.
- 3. The pattern and text you have set appear clearly.



- Only the RPCS printer driver is supported.
- Printing at 200 × 200 dpi is not possible.
- You cannot partially embed patterns and texts strings in a document.
- To make the embedded pattern clear, set the character size at least 50 pt (preferably 70 to 80 pt) and character angle to between 30 and 40 degrees.

3

- Due to the effects of the settings, the results of copying, scanning, and saving documents in the document server may vary depending on the printer model and setting conditions.
- Printing with background patterns and texts may be slower than normal printing.
- For details about setting [Mask type:], see the printer driver Help.

Important Notice

- The supplier does not provide warranty regarding the appearance of print patterns and other copy
 protection features. The appearance of the print patterns and the performance of Unauthorized Copy
 Control may vary depending on the quality of paper used and the printer model and settings.
- The supplier takes no responsibility for any damages sustained in connection with use of or inability to make use of Unauthorized Copy Control print patterns.

Using the Print Job Function

This describes how to print or delete files stored in the printer. There are following types of print files: Sample Print, Locked Print, Hold Print, and Stored Print.

Print files sent from computers can be stored in the hard disk of the printer. Using the Print Job function, you can print or delete the print files.



• To use this function, the optional hard disk must be installed on the printer.

Print Job screen

When the printer is turned on, the following screen appears if an optional hard disk is installed in the printer.



If you press [Prt.Jobs] on the initial screen, a screen prompting to select the type of print job appears.



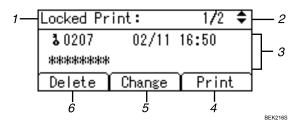
After selecting a type, you can select print files in the list by pressing:

- [Job List]
 Displays the Job List screen.
- [User ID]
 Displays the User ID screen.

If you select Sample Print, Locked Print, and Hold Print, the print files saved in the printer are deleted after printing is completed. If you select Stored Print, the files remain in the printer even after printing is finished.

3

Job List Screen



1. The type of print jobs

Displays the type of the print job you select.

2. Page number

Displays the current page number. Each time pressing the [▲] or [▼] key, the screen switches.

3. User ID, Date/Time, and File Name display

- User ID shows the user's ID set by the printer driver.
- Date and Time show the time at which the print job was stored in the printer.
- File name shows the name of the file. However, "****" is shown instead of the file name for a Locked Print file.

4. [Print]

Prints a selected file.

5. [Change]

Changes or clears the password of a file if a password is set. To change the password of a Locked/Stored Print job, press [Change], enter the current password, and then enter the new password on the confirmation screen. To clear the password, press [Change], leave the entering/confirming a new password box blank, and then press the [OK] key.

You can also set passwords to the Stored Print files that do not currently have passwords.

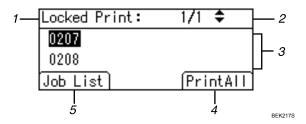
6. [Delete]

Deletes a selected file.



- When you press [Change] to change or clear a password, you must first enter the existing password. If the password you entered is incorrect, you cannot change or clear any current passwords.
- You can use [Change] to set or clear passwords only Stored Print files are saved in the printer.

User ID Screen



1. The type of print jobs

Displays the type of the print job you select.

2. Page number

Displays the current page number. Each time pressing the $[^{\blacktriangle}]$ or $[^{\blacktriangledown}]$ key, the screen switches.

3. User ID

- User ID shows the ID of the user who stored the selected type of files.
- User ID set by the printer driver is shown.

4. [PrintAll]

Prints all files stored by the user whose user ID has been selected.

5. [Job List]

Switches the screen to the [Job List] screen.

Displays the print jobs of the selected user only.

U Note

- To cancel selecting a file, press the [JobReset] key.
- The display is not updated if a new file is stored while the list of stored files is displayed. To update the display, press the [Menu] key to return to the initial screen, and then press [Prt.Jobs] again.
- If a large number of print jobs are stored in the printer, processing may slow temporarily, depending on which functions are used.

Reference

- For details about printing each type of print job, see the followings:
- p.87 "Sample Print"
- p.90 "Locked Print"
- p.93 "Hold Print"
- p.96 "Stored Print"

Printing from the Print Job Screen

This section gives instruction about Sample Print, Locked Print, Hold Print, and Stored Print.

Sample Print

Use this function to print only the first set of a multiple-set print job. After you have checked the result, remaining sets can be printed or canceled using the printer's control panel. This can reduce misprints due to mistakes in content or settings.



- A Sample Print file cannot be stored if:
 - the optional hard disk is not installed in the printer.
 - the total number of Sample Print, Locked Print, Hold Print, and Stored Print files in the printer is over 100. (The maximum number varies depending on the volume of data in files.)
 - the file contains over 1,000 pages.
 - sent or stored files in the printer contain over 9,000 pages in total.



- If a Sample Print file has not been stored properly, check the error log on the control panel.
- Even after you turn off the printer, stored documents in the printer remain. However, the [Auto Del. Temp. Print Jobs] or [Auto Del Stored Print Jobs] settings are applied first.
- If the application has a collate option, make sure it is not selected before sending a print job. By default, Sample Print jobs are automatically collated by the printer driver. If a collate option is selected from the application's Print dialog box, more prints than intended may be produced.
- If the first set of the Sample Print files is not as you expected and you do not want to print remaining sets, delete the Sample Print file using the display panel. If you print the remaining sets of the Sample Print file, the job in the printer is deleted automatically.
- Sample Print files printed or deleted using Web Image Monitor, after you select [Sample Print Jobs]
 using the control panel will appear on the display panel. However, an error message will appear if
 you try to print or delete those Sample Print files.
- If stored files have similar and long file names, recognizing the file you want to print on the display panel may be difficult. Print the file you want to print either by checking the user ID or the time the file is sent, or by changing the file name to something that can be recognized easily.

Reference

- For details about the error log on the display panel, see p.109 "Checking the Error Log".
- For details about [Auto Del. Temp. Print Jobs] and [Auto Del Stored Print Jobs], see p.151 "System Menu".

Printing a sample print file

The following procedure describes how to print a Sample Print file with the PCL 6/5e, RPCS or PostScript 3 printer driver.



- Applications with their own drivers, such as PageMaker, do not support this function.
- 1. From an application, select a command to print.

The Print dialog box appears.

2. Select the printer you want to use in the [Name] list, and then click [Properties].

The printer properties dialog box appears.

3. In the [Job Type:] box, click [Sample Print].

When printing with the PostScript 3 printer driver, click [Sample Print] in the [Job Type:] box on the [Job Log] tab.

4. Click [Details...], and then enter a user ID in the [User ID:] box.

This is used to identify the user. The user ID can be entered using up to eight alphanumeric (a-z, A-Z, 0-9) characters.

5. Execute a command to print.

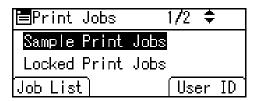
Make sure to set more than two copies.

The Sample Print job is sent to the printer, and the first set is printed.

6. On the printer's control panel, press [Prt.Jobs].



7. Select [Sample Print Jobs] using the [▲] or [▼] key, and then press [Job List].



A list of Sample Print files stored in the printer appears.

Depending on the security settings, certain print jobs may not be displayed.

You can print files also by pressing [User ID].

Select the file you want to print using the [▲] or [▼] key, and then press [Print].

Sample Print:		1/3	‡
0208	02/11	17:03	
Document			
Delete		Print	.

Enter the new number of sets using the scroll keys. You can enter up to 999 sets.

Press the [Escape] key to correct any entry mistakes.

9. Press [Print].

The remaining sets are printed.

Press [Cancel] to cancel printing.



- When the number of set quantity is changed, the changed quantity is applied to all selected files.
- When printing is completed, the stored file will be deleted.
- To stop printing after printing has started, press the [Job Reset] key. The file will be deleted.

■ Reference

• For details about [User ID], see p. 101 "Printing from the User ID Screen".

Deleting sample print files

If you are not satisfied with the sample printout, you can delete the Sample Print file, revise it and print it again until the settings are suitable.

1. Press [Prt.Jobs].



2. Select [Sample Print Jobs] using the [▲] or [▼] key, and then press [Job List].



A list of Sample Print files stored in the printer appears.

Depending on the security settings, certain print jobs may not be displayed.

Select the file you want to delete using the [▲] or [▼] key, and then press [Delete].

Sample Print:		1/3	#
0208	02/11	17:03	
Document			
Delete		Print	<u> </u>

The delete confirmation screen will appear.

4. Press [Delete].

The selected file is deleted.

If you do not want to delete the file, press [Cancel].

Locked Print

Use this function to maintain privacy when printing confidential documents on the printer over a shared network. Usually, it is possible to print data using the display panel once it is stored in this printer. When using Locked Print, it is not possible to print unless a password is entered on the printer's display panel. Your confidential documents will be safe from being viewed by other people.

- A Locked Print file cannot be stored if:
 - the optional hard disk is not installed in the printer.
 - the total number of Sample Print, Locked Print, Hold Print, and Stored Print files in the printer is over 100. (The maximum number varies depending on the volume of data in files.)
 - the file contains over 1,000 pages.
 - sent or stored files in the printer contain over 9,000 pages in total.



- If a Locked Print file has not been stored properly, check the error log on the control panel.
- Even after you turn off the printer, stored documents remain. However, the [Auto Del. Temp. Print Jobs] or [Auto Del Stored Print Jobs] settings are applied first.
- If the application has a collate option, make sure it is not selected before sending a print job. Locked
 Print jobs are automatically collated by the printer driver as default. If a collate option is selected in
 the application print dialog box, more sets than intended may be printed.
- After the Locked Print file is printed, the job is automatically deleted.
- Locked Print files printed or deleted using Web Image Monitor, after you select [Locked Print Jobs]
 using the control panel will appear on the display panel. However, an error message will appear if
 you try to print or delete those Locked Print files.

■ Reference

- For details about the error log on the display panel, see p.109 "Checking the Error Log".
- For details about the [Auto Del. Temp. Print Jobs] and [Auto Del Stored Print Jobs], see p.151 "System Menu".

Printing a locked print file

The following procedure describes how to print a Locked Print file with the PCL 6/5e, RPCS or PostScript 3 printer driver.



- Applications with their own drivers, such as PageMaker, do not support this function.
- Configure the Locked Print in the printer driver's properties.
 For details about configuring the printer drivers, see the corresponding Help files.
- 2. Start printing from the application's Print dialog box.

The Locked Print job is sent to the printer.

3. On the printer's control panel, press [Prt.Jobs].



4. Select [Locked Print Jobs] using the [▲] or [▼] key, and then press [Job List].

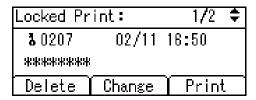


A list of Locked Print files stored in the printer appears.

Depending on the security settings, certain print jobs may not be displayed.

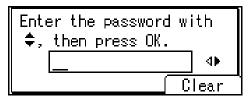
You can print files also by pressing [User ID].

Select the file you want to print using the [▲] or [▼] key, and then press [Print].



The password screen appears.

6. Enter the password using the [▲], [▼], [◄] or [▶] key, and then press the [OK] key.



The print confirmation screen appears.

A confirmation screen will appear if the password is not entered correctly. Press [Clear] to enter the password again.

If you forget your password, ask your network administrator for help.

7. Press [Print].

The remaining sets are printed.

Press [Cancel] to cancel printing.



- When printing is completed, the stored file will be deleted.
- To stop printing after printing has started, press the [Job Reset] key. The file will be deleted.

Reference

• For details about [User ID], see p.101 "Printing from the User ID Screen".

Deleting locked print files

1. Press [Prt.Jobs].



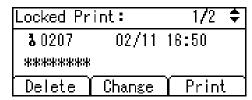
2. Select [Locked Print Jobs] using the [▲] or [▼] key, and then press [Job List].



A list of Locked Print files stored in the printer appears.

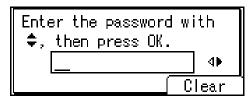
Depending on the security settings, certain print jobs may not be displayed.

Select the file you want to delete using the [▲] or [▼] key, and then press [Delete].



The password screen appears.

4. Enter the password using the [▲], [▼], [◄] or [▶] key, and then press the [OK] key.



The delete confirmation screen appears.

A confirmation screen will appear if the password is not entered correctly. Press [Clear] to enter the password again.

If you forget your password, ask your network administrator for help.

5. Press [Delete].

The selected file is deleted.

If you do not want to delete the file, press [Cancel].

Hold Print

Use this function to temporarily hold a file in the printer, and print it from the computer or the printer's control panel later.



- A Hold Print file cannot be stored if:
 - the optional hard disk is not installed in the printer.
 - the total number of Sample Print, Locked Print, Hold Print, and Stored Print files in the printer is over 100. (The maximum number varies depending on the volume of data in files.)
 - the file contains over 1,000 pages.
 - sent or stored files in the printer contain over 9,000 pages in total.



• If a Hold Print file has not been stored properly, check the error log on the control panel.

- Even after you turn off the printer, stored documents in the printer remain. However, the [Auto Del. Temp. Print Jobs] or [Auto Del Stored Print Jobs] settings are applied first.
- If the application has a collate option, make sure it is not selected before sending a print job. By
 default, Hold Print jobs are automatically collated by the printer driver. If a collate option is selected
 from the application's Print dialog box, more prints than intended may be produced.
- Hold Print files printed or deleted using Web Image Monitor, after you select [Hold Print Jobs] using
 the control panel will appear on the display panel. However, an error message will appear if you try
 to print or delete those Hold Print files.
- If stored files have similar and long file names, recognizing the file you want to print on the display
 panel may be difficult. Print the file you want to print either by checking the user ID or the time the file
 is sent, or by changing the file name to something that can be recognized easily. If you enter the
 document name on the printer driver's [Details...], that name appears on the display panel.
- It is possible, but not required, to set a file name or a password to a Hold Print file.

Reference

- For details about the error log on the display panel, see p.109 "Checking the Error Log".
- For details about the [Auto Del. Temp. Print Jobs] and [Auto Del Stored Print Jobs], see p.151 "System Menu".

Printing a hold print file

The following procedure describes how to print a Hold Print file with the PCL 6/5e or RPCS printer driver. For information about how to print a Hold Print file with the PostScript 3 printer driver, see Postscript 3 Supplement.



- Applications with their own drivers, such as PageMaker, do not support this function.
- Configure Hold Print in the printer driver's properties.
 For details about configuring the printer drivers, see the relevant Help files.
- Click [Details...], and then enter a User ID in the [User ID:] box.
 You can also set a file name. The file name you set will be displayed on the printer's Job List screen.
- Start printing from the application's Print dialog box.
 The Hold Print job is sent to the printer and stored.
- 4. On the printer's control panel, press [Prt.Jobs].



Select [Hold Print Jobs] using the [▲] or [▼] key, and then press [Job List].

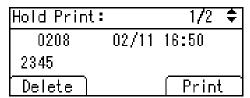


A list of Hold Print files stored in the printer appears.

Depending on the security settings, certain print jobs may not be displayed.

You can print files also by pressing [User ID].

Select the file you want to print using the [▲] or [▼] key, and then press [Print].



The confirmation screen appears.

7. Press [Print].

The Hold Print file is printed.

Press [Cancel] to cancel printing.



- When printing is completed, the stored file will be deleted.
- To stop printing after printing has started, press the [Job Reset] key. The file will be deleted.
- For details about setting printer drivers, see the printer driver Help. You can also print or delete a Hold Print file from Web Image Monitor. For details, see Web Image Monitor Help.

Reference

• For details about [User ID], see p. 101 "Printing from the User ID Screen".

Deleting hold print files

1. Press [Prt.Jobs].



2. Select [Hold Print Jobs] using the [▲] or [▼] key, and then press [Job List].



A list of Hold Print files stored in the printer appears.

Depending on the security settings, certain print jobs may not be displayed.

3. Select the file you want to delete using the [▲] or [▼] key, and then press [Delete].

Hold Print:		1/2	‡
0208	02/11	16:50	
2345			
Delete		Print	

The confirmation screen appears.

4. Press [Delete].

The selected file is deleted.

If you do not want to delete the file, press [Cancel].

Stored Print

Use this function to store a file in the printer, and then print it from the computer or the printer's control panel later.

Jobs are not deleted after they are printed, so the same job need not be resent in order to print multiple copies.



- A Stored Print file cannot be stored if:
 - the optional hard disk is not installed in the printer.
 - the total number of Sample Print, Locked Print, Hold Print, and Stored Print files in the printer is over 100. (The maximum number varies depending on the volume of data in files.)
 - the file contains over 1,000 pages.
 - sent or stored files in the printer contain over 9,000 pages in total.



• If a Stored Print file has not been stored properly, check the error log on the control panel.

- Even after you turn off the printer, stored documents in the printer remain. However, the [Auto Del. Temp. Print Jobs] or [Auto Del Stored Print Jobs] settings are applied first.
- If the application has a collate option, make sure it is not selected before sending a print job. By
 default, Stored Print jobs are automatically collated by the printer driver. If a collate option is selected
 from the application's Print dialog box, more prints than intended may be produced.
- Stored Print files printed or deleted using Web Image Monitor, after you select [Stored Print Jobs] using the control panel will appear on the display panel. However, an error message will appear if you try to print or delete those Stored Print files.
- If stored files have similar and long file names, recognizing the file you want to print on the display panel may be difficult. Print the file you want to print either by checking the user ID or the time the file is sent, or by changing the file name to something that can be recognized easily.
- If you enter the document name on the printer driver's [Details...], that name appears on the display panel.

Reference

- For details about the error log on the display panel, see p.109 "Checking the Error Log".
- For details about the [Auto Del. Temp. Print Jobs] and [Auto Del Stored Print Jobs], see p.151 "System Menu".

Printing a stored print file

The following procedure describes how to print a Stored Print file with the PCL 6/5e or RPCS printer driver. For information about how to print a Stored Print file with the PostScript 3 printer driver, see Postscript 3 Supplement.

Mportant !

- Applications with their own drivers, such as PageMaker, do not support this function.
- 1. Configure the Stored Print in the printer driver's properties.

You can select two ways for Stored Print:

- [Stored Print]
 - Stores the file in the printer and print it later using the control panel.
- [Store and Normal Print] (or [Store and Print])
 Prints the file at once and also stores the file in the printer.

For details about configuring the printer drivers, see the relevant Help files.

2. Click [Details...], and then enter a User ID in the [User ID:] box.

You can also set a password. The same password must be entered when printing or deleting.

You can also set a file name. The file name you set will be displayed on the printer's Job List screen.

3. Start printing from the application's Print dialog box.

The Stored Print job is sent to the printer.

4. On the printer's control panel, press [Prt.Jobs].



5. Select [Stored Print Jobs] using the [▲] or [▼] key, and then press [Job List].



A list of Stored Print files stored in the printer appears.

You can print files also by pressing [User ID].

Select the file you want to print using the [▲] or [▼] key, and then press [Print].

Stored Print:		1/2	‡
3 0207	02/11	16:51	
0055			
Delete	Change) Print	<u> </u>

The confirmation screen appears.

If you set a password in the printer driver, a password confirmation screen appears. Enter the password.

7. Press [Print].

The Stored Print file is printed.

Press [Cancel] to cancel printing.



- When multiple files are selected without setting a quantity, one set less than the minimum number of all settings is applied. If the least number of settings is one set, all selected files will be printed at one set.
- When the number of set quantity is changed, the changed quantity is applied to all selected files.
- To stop printing after printing has started, press the [Job Reset] key. A Stored Print file is not deleted even if the [Job Reset] key is pressed.

- The Stored Print file that sent to the printer is not deleted unless you delete a file or select [Auto Del Stored Print Jobs].
- You can set or delete a password after sending files to the printer. Select the file and press [Change]
 in the Print Job List screen. To set a password, enter the new password. To delete the password, leave
 the password box blank on entering or confirming the new password, and press the [OK] key.
- For details about setting printer drivers, see the printer driver Help. You can also print or delete a Stored Print file from Web Image Monitor. For details, see Web Image Monitor Help.

Reference

- For details about the [Auto Del Stored Print Jobs], see p.151 "System Menu".
- For details about [User ID], see p. 101 "Printing from the User ID Screen".

Deleting stored print files

1. Press [Prt.Jobs].



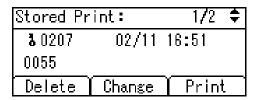
2. Select [Stored Print Jobs] using the [▲] or [▼] key, and then press [Job List].



A list of Stored Print files stored in the printer appears.

Depending on the security settings, certain print jobs may not be displayed.

3. Select the file you want to delete using the [▲] or [▼] key, and then press [Delete].



The delete confirmation screen will appear.

If you set the password in the printer driver, enter the password to delete.

If you forget your password, ask your network administrator for help.

4. Press [Delete].

The selected file is deleted.

If you do not want to delete the file, press [Cancel].

Printing from the User ID Screen

This describes how to print the files saved in the printer from the User ID screen.

Printing the Selected Print Job



- If you print a Sample, Locked, or Hold Print file, the print file saved in the printer is deleted after printing is completed.
- 1. On the initial screen, press [Prt.Jobs].



2. Press [User ID].

≣ Print Jobs	1/2 🕏
Sample Print	Jobs
Locked Print	Jobs
Job List	User ID

A list of user IDs whose files are stored in the printer appears.

Select the user ID whose file you want to print using the [▲] or [▼] key, and then press [Job List].

Sample Print:	1/1 💠
0208	
5011	
Job List	PrintAll

The print job list of the selected user ID appears.

Select the file you want to print using the [▲] or [▼] key, and then press [Print].

Sample Pri	nt:	1/1	#
5011	02/11	17:02	
Document			
Delete		Prin	<u>. </u>

The confirmation screen appears.

5. Press [Print].

The selected file is printed.

Press [Cancel] to cancel printing.

■ Reference

- For details about printing each type of print job, see the followings:
- p.87 "Sample Print"
- p.90 "Locked Print"
- p.93 "Hold Print"
- p.96 "Stored Print"

Printing All Print Jobs

1. On the initial screen, press [Prt.Jobs].

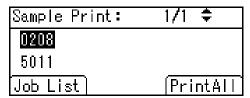


Select a type of print jobs you want to print using the [▲] or [▼] key, and then press [User ID].



A list of user IDs whose files are stored in the printer appears.

3. Select the user ID whose file you want to print using the [▲] or [▼] key, and then press [PrintAll].



The confirmation screen appears.

4. Press [Print].

The selected files are printed.

To cancel printing, press [Cancel].

Note

- After printing is completed, Sample Print, Locked Print, and Hold Print files are deleted.
- You cannot select a print job that is not stored under the selected user ID.
- When printing multiple Sample Print files without specifying the number of sets on the confirmation screen, one set less than the least number of set specified on the computer is applied for every selected document. If the number of sets specified on the computer is "1", one set each is printed for every document.
- When printing multiple Stored Print files without specifying the number of sets on the confirmation screen, the least number of set specified on the computer is applied for every selected document.
- If you select [Locked Print Jobs], enter the correct password. If there are multiple passwords, the printer prints only files that correspond to the entered password.
- If you select Stored Print files, and some of these require a password, the printer prints files that correspond to the entered password and files that do not require a password.

■ Reference

- For details about printing each type of print job, see the followings:
- p.87 "Sample Print"
- p.90 "Locked Print"
- p.93 "Hold Print"
- p.96 "Stored Print"

Form Feed

This section gives instructions for operating the printer when there is no tray for the selected paper size or type, or when paper loaded in the printer has run out.



- The tray cannot be changed if the following functions are set:
 - Duplex Print to a tray that does not support duplex printing
 - Cover Sheet
 - Slip Sheet



- If form feed is selected for a tray with the following settings, you can change the tray by canceling the settings:
 - Duplex Print
 - Staple

■ Reference

If [Auto Continue] is selected, form fed paper is printed after a set interval. For details, see p.151
 "System Menu".

Printing from a Selected Tray

If the printer does not have a tray for the selected paper size or paper type, or if the selected paper loaded in the printer has run out, a caution message appears. If this message appears, do the following procedure.

1. When the caution message appears, press [FormFeed].

Paper size/type mismatch. Change settings to: 8½×11 □Plain/Recycled Change | JobReset | FormFeed

A confirmation message appears.

2. Press the [OK] key.

3

 Select the tray for form feed using the [▲] or [▼] key from those that appear on the display panel, and then press the [OK] key.



The printer prints using the selected tray.



• If a tray with a smaller paper size is selected, the print job may be cut short, or other problems may occur.

Canceling a Print Job

Follow this procedure for canceling the print job if the message prompting form feed appears.

1. Press [JobReset].

```
Paper size/type mismatch.
Change settings to:
8½×11 □Plain/Recycled
Change | JobReset|FormFeed
```

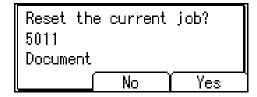
2. Press [Current].

```
Reset job(s):
5011
Document
Current |All Jobs| Resume
```

The confirmation message appears.

To resume printing jobs, press [Resume].

3. Press [Yes] to cancel the print job.



Press [No] to return to the previous display.



- If the printer is shared by multiple computers, be careful not to accidentally cancel someone else's print job.
- Under Windows, If the printer is connected to the computer using a parallel cable, sent print jobs may
 be canceled if [JobReset] is pressed while "Waiting..." is displayed on the control panel. After the
 interval set in [I/O Timeout] in Printer Features has passed, the next print job can be sent. A print job
 sent from a different client computer will not be canceled in this case.
- You cannot stop printing data that has already been processed. For this reason, printing may continue for a few pages after you press [JobReset].
- A print job containing a large volume of data may take considerable time to stop.

Reference

• To stop data printing, see p.107 "Canceling a Print Job".

Canceling a Print Job

You can cancel printing from either the printer or a client computer. Since canceling procedures vary depending on the print job status, check the job status and cancel printing according to the following procedure.

Canceling a Print Job Using the Control Panel

1. Press [JobReset].

A confirmation message appears.

2. Press [Current].

```
Reset job(s):
5011
Document
Current All Jobs Resume
```

To resume printing jobs, press [Resume].

3. Press [Yes] to cancel the print job.

```
Reset the current job?
5011
Document
No Yes
```

Press [No] to return to the previous display.

Windows - Canceling a Print Job from the computer

You can cancel a print job from the computer if transferring print jobs 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].



- If the printer is shared by multiple computers, be careful not to accidentally cancel someone else's print job.
- If the printer is connected to the computer using a parallel cable, sent print jobs may be canceled if
 [JobReset] is pressed while "Waiting..." is displayed on the control panel. After the interval set in [I/
 O Timeout] in Printer Features has passed, the next print job can be sent. A print job sent from a different
 client computer will not be canceled in this case.
- You cannot stop printing data that has already been processed. For this reason, printing may continue
 for a few pages after you press [JobReset].
- A print job containing a large volume of data may take considerable time to stop.

Mac OS - Canceling a Print Job from the computer

1. Double-click the printer icon on the desktop.

A window appears showing all print jobs that are currently queuing to be printed. Check the current status of the job you want to cancel.

Under Mac OS X, start Print Center.

- 2. Select the name of the job you want to cancel.
- 3. Click the pause icon, and then click the trash icon.



- If the printer is shared by multiple computers, be careful not to accidentally cancel someone else's print job.
- If the printer is connected to the computer using a parallel cable, sent print jobs may be canceled if
 [JobReset] is pressed while "Waiting..." is displayed on the control panel. After the interval set in [I/
 O Timeout] in Printer Features has passed, the next print job can be sent. A print job sent from a different
 client computer will not be canceled in this case.
- You cannot stop printing data that has already been processed. For this reason, printing may continue
 for a few pages after you press [JobReset].
- A print job containing a large volume of data may take considerable time to stop.

Checking the Error Log

If files could not be stored due to printing errors, identify the cause of the errors by checking the error log on the control panel.



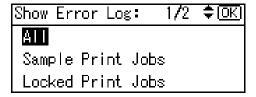
- The most recent 30 errors are stored in the error log. If a new error is added when there are 30 errors already stored, the oldest error is deleted. However, if the oldest error belongs to one of the following print jobs, it is not deleted. The error is stored separately until the number of those errors reaches 30. You can check any of these print jobs for error log information.
 - Sample Print
 - Locked Print
 - Hold Print
 - Stored Print
- If the main power switch is turned off, the log is deleted.
- 1. Press [Option].



2. Select [Show Error Log] using the [▲] or [▼] key, and then press the [OK] key.



Select a type of print jobs using the [▲] or [▼] key, and then press the [OK] key.
 If you select [All], all error logs appears.



Error Log:All		1/4 💠
21 0208	02/11	18:15
Document		
▶Job Reset		



- Press the [Menu] key until the initial screen appears after checking the log.
- To print files that appear in the error log, resend them after stored files have been printed or deleted.

Collate

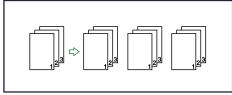
The Collate function allows you to print while sorting printouts into page-ordered sets, such as when printing multiple copies of meeting materials.



- To use this function, at least 384 MB of RAM (256 MB standard + 128 MB optional) or the optional hard disk is required.
- Up to 100 pages can be stored using RAM. If the optional hard disk is installed, up to 1,000 pages can be stored.

Collate

Output can be assembled as sets in sequential order.



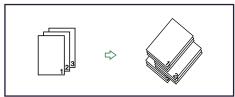
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- If Auto Continue occurs on the first set, Collate will be canceled.
- If forced printing occurs on the first set, Collate will be canceled.
- When setting Collate in the printer driver settings, make sure that a collate option is not selected in the application's print settings. If a collate option is selected, printing will not be as intended.
- For details about printing method, see the printer driver Help.

Shift Collate

The optional finisher is required for this function. The finisher shift tray moves backward or forward when a job or set is output, causing the next to shift, so you can separate them.



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Spool Printing

With Spool Printing, the print data is saved in the hard disk before printing. To use this function, set it from the menu. See "Remote Maintenance by telnet".

- To use this function, the optional hard disk must be installed on the printer.
- Use the "spoolsw clear job" telnet command to clear a spooled print job. Do not turn off the printer
 or computer while a print job is being spooled and the Data In is flashing. Print jobs that are interrupted
 in this way remain on the printer's hard disk and will finish printing out when the printer is turned back
 on.
- The Spool Printing function is available for data received using diprint, lpr, ipp, ftp, and sftp (TCP/IP (IPv6)).
- When using diprint, the Spool Printing function cannot be used with bidirectional communication.
- The domain reserved for spool printing is about 1 GB.
- When Spool Printing is on, the size of a single print job cannot exceed 500 MB.
- When receiving jobs from multiple computers, the printer can spool a maximum of ten lpr jobs, and
 only one diprint, ipp, ftp, sftp, or smb job. If the printer's spooling capacity is exceeded, newer jobs
 cannot be printed. You must wait before sending further jobs.

Note

- Printing the first page with Spool Printing will be slow.
- The computer requires less print processing time when large amounts of data are spooled.
- Stored spool jobs can be viewed or deleted using Web Image Monitor.
- The list of spool jobs cannot be viewed from the printer's control panel.

Reference

 For information about the "spoolsw clear job" command on the telnet, see p.216 "Remote Maintenance by telnet".

Setting Spool Printing

Spool printing settings can be made using telnet or Web Image Monitor.

- Using Web Image Monitor
 In [System] on the [Configuration] menu, click [Active] in [Spool Printing].
- Using telnet
 Enter "spoolsw spool on".

U Note

• For details about Web Image Monitor, see Web Image Monitor Help.

■ Reference

• For details about "spoolsw spool on", see p.216 "Remote Maintenance by telnet".

Viewing or Deleting spooled jobs using Web Image Monitor

Follow the procedure below to check or delete spooled jobs using Web Image Monitor.

- 1. Open a Web browser.
- 2. Enter "http://(printer's address)/" in the address bar to access the printer whose settings you want to change.

Top Page of Web Image Monitor appears.

3. Click [Login].

The window for entering the login user name and password appears.

4. Enter the login user name and password, and then click [Login].

Contact your administrator for information about the settings.

5. In the menu area, click [Job].

A submenu will appear.

6. On the [Printer] menu, click [Spool Printing].

A list of spooled jobs appears.

7. To delete a job, select the check box of the job you want to delete, and then click [Delete].
The selected job is deleted.

- 8. Click [Logout].
- 9. Quit Web Image Monitor.



• For details about Web Image Monitor, see Web Image Monitor Help.

Cover

Using this function, you can insert cover and back sheets fed from a different tray to that of the main paper, and print on them.



• To use this function, Collate must be set.



- The cover sheets should be the same size and orientation as the body of the paper.
- If Auto Tray Select is set for the body paper feed tray, body paper will be delivered from a tray that contains paper set in portrait orientation. Therefore, if the cover paper is set to landscape orientation, the orientation of the cover and body paper will be different.
- For printing methods, see the printer driver Help.

Printing with the Finisher

You can staple or punch holes in printed paper by installing the optional finisher. Make sure you read the following precautions when using the optional finisher.



- Make option settings for the printer using the printer driver when bidirectional communication is disabled.
- Be sure to set the paper size and paper orientation in the printer driver when using duplex printing, staple and punch functions.



- When printing restarts after removing jammed paper, the printing position may be different, depending on the location of the jam.
 - If the paper jam occurred in the optional finisher, printing will restart from the top page of the data currently being printed, or from the page where the paper jam occurred.
 - If the paper jam occurred in the printer, printing will restart from the page where the paper jam occurred.
 - Even if the paper jam occurred in the printer, the error will not be cleared unless the cover of the finisher is opened and closed.
 - For information about optional finishers, see Hardware Guide.

Staple

With the optional Finisher SR3030 or Finisher SR790 installed, sets can be stapled individually when printing multiple sets.

Staple position

The specified staple position varies depending on paper size, type, quantity and feed orientation. The following table shows staple positions:

Staple Position

Paper Orientation	Print Data	Staple Position	
on the Printer	Direction	Finisher SR790	Finisher SR3030
	Portrait		
←	Landscape	R R R R	R R R R
	Portrait		
+	Landscape	R R R R	RRRR

BEK220S

Staple Capacity (Finisher SR790)

Paper Size	Staple Capacity
A3D, B4 JISD, 12" × 18"D, 11" × 17"D, 8 ¹ / ₂ " × 14" (Legal)D, 8 ¹ / ₂ " × 13" (Foolscap) D, 8 ¹ / ₄ " × 13" (Folio)D, 8" × 13" (F/GL)D	30
A4 \Box , B5 JIS \Box , 8 $^{1}/_{2}$ " × 11" (Letter) \Box , $7^{1}/_{4}$ " × $10^{1}/_{2}$ " (Executive) \Box	50

Staple Capacity (Finisher SR3030)

Paper Size	Staple Capacity
A3D, B4 JISD, 12" × 18"D, 11×17D, 8 ¹ / ₂ " × 14" (Legal)D, 8 ¹ / ₂ " × 13" (Foolscap)D, 8 ¹ / ₄ " × 13" (Folio)D, 8" × 13" (F/GL)D	30
A4 \Box D, B5 JIS \Box D, 8 $^{1}/_{2}$ " × 11" (Letter) \Box D, $7^{1}/_{4}$ " × $10^{1}/_{2}$ " (Executive) \Box D	50

Mixed Size (Finisher SR3030)

Mixed Paper Size	Staple Capacity
A3D and A4D	30
B4 JIS□ and B5 JIS□	30
11" × 17"□ and 8 ¹ / ₂ " × 11" (Letter)□	30



- When two-sided printing is selected, adjust the staple position to the binding direction.
- If you are punching at the same time, specify the same side.
- For printing methods, see the printer driver Help.

Stapling Precautions



- Stapling can be done only with the optional finisher installed.
- Staple printing will be canceled under the following conditions:
 - If the number of pages to staple exceeds maximum.
 - If a paper size that cannot be stapled is selected.
 - If a paper type that cannot be stapled is selected.
 - If positions other than those fixed for stapling are specified.
 - If there are inconsistencies between the orientation in the duplex mode and the staple position.
 - If there are inconsistencies between the orientation in letterhead mode and the staple position.
 - When staples have run out and Auto Continue is set (Printing will continue without stapling after the message has been displayed).
 - When only 1 page is printed when staples have run out.
 - If paper sizes are mixed when a different paper size is specified during a print job.



- When printing on letterhead, stapling may not be at the specified position.
- If you cannot make staple settings even with Finisher installed, options may not be set correctly in the printer driver. Correct option settings in the printer driver. For details, see the printer driver Help.
- When duplex printing is selected, adjust staple positions to the binding orientation.
- Depending on the software you are using, print settings may not be saved and the printed result may not be as expected.

- When setting Staple in the printer driver settings, make sure that a collate option is not selected in the print settings of the application. If a collate option is selected in the application, printing will not be as intended.
- When using tracing paper, the vertical/horizontal position of the staples is opposite to the vertical/horizontal position specified in the printer driver settings.
- Also, staples on the front cover sheet come out reversed.

Punch

By installing an optional punch unit to the optional finisher, Finisher SR3030, holes can be punched into printed output.

Punch position

The specified punch position varies depending on paper feed and print data orientation. The following table shows punch positions:

Punch Position

Feed	Print	Punch Position		
Direction	direction	2 holes	3 holes	4 holes
	Portrait	A A	A A	A
—	Landscape	·A·	Ä	A
	Portrait	A	A	A
—	Landscape	A.	A:	A

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Holes Type (Finisher SR3030)

Туре	Paper Size
2 holes	A3 □, A4 □□, A5 □□, A6 □, B4 JIS □, B5 JIS □□, B6 JIS □, 11" × 17"□□, 8 1/2" × 14" (Legal)□□, 8 1/2" × 13" (Foolscap)□□, 12" ×

Туре	Paper Size
	$18"\Box$, $8^{1}/_{2}" \times 11"$ (Letter) \Box , $8^{1}/_{4}" \times 13"$ (Folio) \Box , $8" \times 13"$ (F/GL) \Box , $7^{1}/_{4}" \times 10^{1}/_{2}"$ (Executive) \Box , $5^{1}/_{2}" \times 8^{1}/_{2}"$ (Half Letter) \Box
3 holes	A3 \Box , A4 \Box , B4 JIS \Box , B5 JIS \Box , 12" × 18" \Box , 11" × 17" \Box , 8 ¹ / ₂ " × 11" (Letter) \Box , 7 ¹ / ₄ " × 10 ¹ / ₂ " (Executive) \Box
EU 4 holes	A3 \Box , A4 \Box , B4 JIS \Box , B5 JIS \Box , 12" × 18" \Box , 11" × 17" \Box , 8 ¹ / ₂ " × 11" (Letter) \Box , 7 ¹ / ₄ " × 10 ¹ / ₂ " (Executive) \Box
Northern EU 4 holes	A3□, A4□□, A5□□, B4 JIS□, B5 JIS□□, B6 JIS□, 12" × 18"□, 11" × 17"□, 8 ¹ / ₂ " × 14" (Legal)□, 8 ¹ / ₂ " × 13" (Foolscap)□, 8 ¹ / ₂ " × 11" (Letter)□□, 8 ¹ / ₄ " × 13" (Folio)□, 8" × 13" (F/GL)□, 7 ¹ / ₄ " × 10 ¹ / ₂ " (Executive)□□, 5 ¹ / ₂ " × 8 ¹ / ₂ " (Half Letter)□□



- Punch positions will vary slightly from page to page as holes are punched into each sheet individually.
- For printing methods, see the printer driver Help.

Punching Precautions

Follow these precautions when using the punch function.



- To use this function, an optional punch unit must be installed to the optional Finisher attached to the printer.
- Punch printing will be canceled under the following conditions:
 - When a paper type that cannot be punched is selected.
 - When a paper size that cannot be punched is selected.
 - If positions other than those fixed for punching are specified.
 - If there are inconsistencies between the orientation in duplex mode and the punch position.
 - If there are inconsistencies between the orientation in letterhead mode and the punch position.
 - When the punch receptacle has become full and Auto Continue is set (Printing will continue without punching after the message appears).
 - If there are inconsistencies between the staple position and the punch position, when using with staple function.



• Punching might not be in the specified position when printing on letterhead paper.

- If you cannot make punch settings even with the optional finisher installed, options may not be set correctly in the printer driver. Correct option settings in the printer driver. For details, see the printer driver Help.
- When duplex print is selected, adjust the punch position to the binding direction.
- Be sure to set the punch position the same as the staple position when using it with the staple function.
- Be sure to set paper size and orientation in the printer driver when punching.
- Depending on the application, print settings may not be enabled and printed output may not be as expected.
- When setting Punch in the printer driver settings, make sure that a collate option is not selected in the print settings of the application.
- If a collate option is selected in the application, printing will not be as intended.
- When using tracing paper, the vertical/horizontal position of the punches is opposite to the vertical/horizontal position specified in the printer driver settings.

Using the Virtual Printer

This section explains virtual printer functions.

A virtual printer is a pseudo printer that can only be recognized on a network. The virtual printer has various print options, such as feeding tray selection and duplex printing, which you can set in advance. You can also use the interrupt printing function. This function suspends the ongoing job and gives priority to a new job. The optional hard disk must be installed to use this function.

If you use the virtual printer under UNIX, Solaris, and other operating systems, various print functions are possible without having you manually enter usual print commands.

Adding a Virtual Printer

Use this procedure to add a virtual printer.



- Adding a virtual printer requires Administrators privilege. Log on using an account that has Administrators privilege.
- The following Virtual Printer protocols are available: "TCP/IP (Unspecified, Normal)", "TCP/IP (DIPRINT)", "TCP/IP (RHPP)", "Apple Talk", and "NetWare".
- 1. Log on to Web Image Monitor as an administrator.
- 2. In the menu area, click [Configuration], and then click [Virtual Printer Settings] in the "Printer" category.

A list of the available virtual printers appears.

Click [Add].

The screen for adding virtual printers appears.

- 4. In [Virtual Printer Name], enter a name for the new printer, and then select the protocol in the [Protocol] list.
- 5. Click [OK].

The virtual printer is added.



- If you select [AppleTalk] or [NetWare] in the [Protocol] list, you cannot specify a virtual printer name.
- You can specify a virtual printer name using up to 47 characters.
- You can add up to 50 virtual printers. After 50 virtual printers have been added, [Add] will no longer be displayed.

Reference

For details about login user names and passwords, see p.185 "Using Web Image Monitor".

Changing a Virtual Printer Configuration

Use this procedure to change a virtual printer configuration.

Mportant !

- You must have Administrators privilege to change the configuration of a virtual printer. Log on using an account that has Administrators privilege.
- 1. Log on to Web Image Monitor as an administrator.
- 2. In the menu area, click [Configuration], and then click [Virtual Printer Settings] in the "Printer" category.

A list of the available virtual printers appears.

- 3. Select the virtual printer whose configuration you want to change, and then click [Change].
 If you want to configure this virtual printer for an interrupt printer, select [TCP/IP (Unspecified, Priority)] in the protocol list.
- 4. Change the configuration as required.
- 5. Click [OK].



• For details about virtual printer configuration, see Web Image Monitor Help.

Reference

• For details about login user names and passwords, see p.185 "Using Web Image Monitor".

Confirming a Virtual Printer Configuration

Use this procedure to confirm a virtual printer configuration.

- 1. Start Web Image Monitor.
- 2. In the menu area, click [Configuration], and then click [Virtual Printer Settings] in the "Printer" category.

A list of available virtual printers appears.

Select the virtual printer whose configuration details you want to confirm, and then click [Details].

A configuration list for the selected virtual printer appears.



• [Details] is not displayed if you log on to Web Image Monitor as an administrator. To confirm a virtual printer configuration, click [Change].

■ Reference

For details about login user names and passwords, see p.185 "Using Web Image Monitor".

Deleting a Virtual Printer

Use this procedure to delete a virtual printer.



- You must have Administrators privilege to delete a virtual printer. Log on using an account that has Administrators privilege.
- 1. Log on to Web Image Monitor as an administrator.
- 2. In the menu area, click [Configuration], and then click [Virtual Printer Settings] in the "Printer" category.

The list of available virtual printers appears.

- 3. Select the virtual printer that you want to delete, and then click [Delete].
 - The delete confirmation screen appears.
- 4. Click [OK].



- You cannot delete this printer's default virtual printer.
- [Delete] appears only if you have already added a virtual printer.

Reference

For details about login user names and passwords, see p.185 "Using Web Image Monitor".

Printing Using a Virtual Printer

To print directly from a specified virtual printer, assign the virtual printer in the print command. If you use the interrupt printing function, enter the name of the virtual printer that you configured for interrupt printing. Before printing for the first time, specify the virtual printer you want to use.

- 1. Log on to Web Image Monitor in administrator mode.
- 2. In the menu area, click [Configuration], and then click [Basic Settings] in the "Printer" category.
- 3. Select [Active] in [Virtual Printer], and then click [OK].
- 4. Send a command from your computer.

lpr

C:\>lpr -S "printer's IP address" [-PVirtual Printer Name] [-ol] \path name\file name

rcp

c:> rcp [-b] \path name\file name [\path name\file name...] printer's host name:["Virtual Printer Name"]

ftp

ftp> put \path name \ file name Virtual Printer Name



- When the ongoing job meets any of the following conditions, interrupt printing is not possible even if
 you print with the virtual printer that is configured for interrupt printing. The printer waits to print a new
 job until it finishes printing the current job.
 - When the staple function is specified for the ongoing print jog
 - When the ongoing print job is performed using the bypass tray
 - · When a function related to cover or slip paper is specified for the ongoing print job
- If a large amount of memory is used for the ongoing print job or a large number of sheets are being
 printed, there may not be enough memory to process an interrupt print job, or only part of the interrupt
 job may be printed. If this happens, certain functions for the interrupt job, such as stapling or storing
 data onto the printer, can be canceled or sheets can be sorted in a number smaller than the standard
 maximum capacity.

Reference

• For details about login user names and passwords, see p.185 "Using Web Image Monitor".

4. Using Paper Types that Have Unique Names

From Registration of User Paper Types to Use

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



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

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

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

3. Load the paper you want to use on the bypass tray.

- Set an unprinted paper on the bypass tray.
- For details about this procedure, see "Loading Paper", Hardware Guide.

4. Using RPCS Printer Driver, print a document on the registered custom size paper.

- Select [Invoice A] for [Paper type:], then proceed with the printing. When [Paper type:] is set to [Invoice A], Plain paper that is suitable for "Invoice A" is selected automatically. Registering a descriptive name makes selecting a paper type from the [Paper type:] list easier.
- For details about this procedure, see "Printing Using Registered Paper Types".



• You can register up to eight user paper types.

■ Reference

- p.127 "Registering Names to Paper Types"
- p.128 "Setting User Paper Types to Trays"
- p.129 "Printing Using Registered Paper Types"

/

Registering Names to Paper Types

Log on to Web Image Monitor in the administrator mode.



- The control panel might not display the paper type name correctly if it is registered using nonalphanumeric characters (i.e., other than a-z, A-Z, or 0-9).
- 1. Start your Web browser.
- 2. Enter "http://(printer's address)/" in the address bar of the Web browser.

The Top of Web Image Monitor appears.

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

If SSL (encrypted HTTP) is running in a server authentication environment, enter "https://(printer's address)".

3. On the Top Page, click [Login].

A dialog box for entering the user name and password appears.

4. Enter your login user name and password, and then click [Login].

For details about the login user name and password, consult your administrator.

- 5. In the menu area, click [Configuration].
- On the [Device Settings], click [User Paper Type], and then change the settings as necessary.

The screen for selecting [User Paper Type] appears.

7. Make changes to the following settings:

Paper Name: Enter a descriptive name for easier recognition.

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

The example below is for printing invoices.

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



• You can register up to eight user paper types.

Setting User Paper Types to Trays

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

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

The example below is for printing invoices.

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

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



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

Printing Using Registered Paper Types

Select a registered paper type to print onto.



- This function can be used when the printer is operating in a network, in conjunction with the RPCS printer driver, and under Windows 2000 or higher (under earlier systems, registered paper types appear as [Plain] in the printer driver).
- This function cannot be used with the printer driver's [Save/Restore Settings] function (registered paper types appear as [Plain] in the printer driver) and if the printer and computer are not using bidirectional communication.
- Also, be aware that the printer driver might not display the paper type name correctly if it is registered
- using an unsupported language, the control panel might not display the paper type name correctly if it is registered using non-alphanumeric characters (i.e., other than a-z, A-Z, or 0-9), and the printer's logs do not record names of user paper types
- 1. Select your application's print command.
- 2. On the tab in the properties dialog box that appears, select a registered paper type under [Paper type:].

If you select Custom Setting, click the [Print Settings] tab.

3. Execute the print command.

The preregistered settings are applied and print is performed.



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

5. Making Printer Settings Using the Control Panel

Menu Chart

This section explains how to change the default settings of the printer and provides information about the parameters included in each menu.

Memory Erase Status

Displays data status inside the memory.

This menu can be selected only when the optional security card is installed.

Paper Input

Menu
Paper Size: Bypass Tray
Paper Size: Tray 1
Paper Size: Tray 2
Paper Size: Tray 3
Paper Size: Tray 4
Paper Type: Bypass Tray
Paper Type: Tray 1
Paper Type: Tray 2
Paper Type: Tray 3
Paper Type: Tray 4
Paper Type: LCT
Duplex Tray
Auto Tray Select
Tray Priority



• Only installed trays appear on the display panel.

Maintenance

Menu
Quality Maintenance
General Settings
Timer Settings
HD Management



• [HD Management] appears only when the optional hard disk is installed.

List/Test Print

Menu
Multiple Lists
Config. Page
Error Log
Network Summary
Supply Info List
Menu List
PCL Config./Font Page
PS Config./Font Page
PDF Config./Font Page
IPDS Font List
Hex Dump
Operations Test
Card save (ADD)
Card save (NEW)



• [IPDS Font List] appears only when the optional IPDS unit is installed.

System

Menu
Print Error Report
Auto Continue
Memory Overflow
Printer Language
Sub Paper Size
Default Printer Language
Energy Saver
Memory Usage
Spool Printing
RAM Disk
Auto Email Notify



- [Spool Printing] appears only when the optional hard disk is installed.
- [RAM Disk] appears only when the optional hard disk is not installed.

Print Settings

Menu
Machine Modes
PCL Menu
PS Menu
PDF Menu
IPDS Menu





• [IPDS Font List] appears only when the optional IPDS unit is installed.

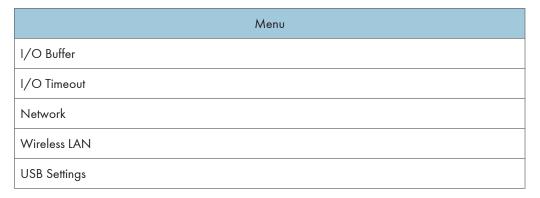
Security Options

Menu
Extended Security
Service Mode Lock
Firmware Version
Network Security Level
Auto Erase Memory Setting
Erase All Memory
Transfer Log Setting
Machine Data Encryption



- [Service Mode Lock] may not appear depending on the setting of the printer.
- [Auto Erase Memory Setting] and [Erase All Memory] appear when the optional security card is installed.
- [Machine Data Encryption] appears only when the optional HDD encryption unit is installed.

Host Interface





• [Wireless LAN] appears when the optional wireless LAN interface unit is installed.

Language

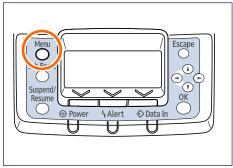
Menu
English
German
French
Italian
Dutch
Swedish
Norwegian
Danish
Spanish
Finnish
Portuguese
Czech
Polish
Hungarian
Russian

Memory Erase Status Menu

Displays data status inside the memory.



- The Memory Erase Status menu appears only when the optional security card is installed.
- 1. Press the [Menu] key.



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The menu screen appears.

- 2. Press the [▲] or [▼] key to display [Memory Erase Status], and then press the [OK] key.
- 3. The current memory status is displayed.

[Data to erase remaining.]: Data remain inside the memory.

[Currently no data to erase.] : No data remain inside the memory.

[Erasing Data...]: Data are being deleted.

4. Press the [OK] key.

The menu screen appears.

5. Press the [Menu] key.

The initial screen appears.

Paper Input Menu

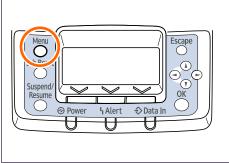
This section explains about paper settings on the paper input menu such as paper sizes and types on each tray.

Changing the Paper Input Menu

Automatic tray selection

Follow the procedure below to change the automatic tray selection setting.

1. Press the [Menu] key.



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The menu screen appears.

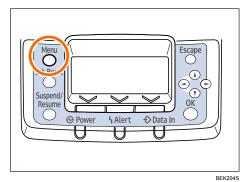
- 2. Press the [▲] or [▼] key to display [Paper Input], and then press the [OK] key.
- 3. Press the [▲] or [▼] key to display [AutoTray Select], and then press the [OK] key.
- 4. Press the [▲] or [▼] key to display the tray you want to select, and then press the [OK] key.
- Press the [▲] or [▼] key to display [On], and then press the [OK] key.
 Wait for one second. The [Auto Tray Select] screen appears.
- 6. Press the [Menu] key.

The initial screen appears.

Tray priority

Follow the procedure below to change the tray priority.

1. Press the [Menu] key.



The menu screen appears.

- 2. Press the [▲] or [▼] key to display [Paper Input], and then press the [OK] key.
- 3. Press the [▲] or [▼] key to display [Tray Priority], and then press the [OK] key.
- 4. Press the [^A] or [[▼]] key to select a tray you want to use, and then press the [OK] key.
 Wait for one second. The [Paper Input] screen appears.
- 5. Press the [Menu] key.

The initial screen appears.

Paper Input Menu Parameters

This section explains about parameters that can be set on the paper input menu.

Paper Size: Bypass Tray

You can specify the paper size for Bypass Tray.

- 220-240V: Auto Detect, A3 \square , A4 \square \square , A5 \square \square , A6 \square B4 JIS \square , B5 JIS \square \square , B6 JIS \square , C5 Env. \square , C6 Env. \square , DL Env. \square , 12" × 18" \square , 11" × 17" \square , 8 $^1/_2$ " × 14" \square , 8 $^1/_2$ " × 13" \square , 8 $^1/_2$ " × 11" \square \square , 8 $^1/_4$ " × 13" \square , 8" × 13" \square , 7 $^1/_4$ " × 10 $^1/_2$ " \square \square , 5 $^1/_2$ " × 8 $^1/_2$ " \square \square , 4 $^1/_8$ " × 9 $^1/_2$ " \square \square , 3 $^1/_8$ " × 7 $^1/_2$ " \square \square , Custom Size



- Default:
 - 220-240V : Auto Detect
 - 120V : Auto Detect

Paper Size: Tray 1 to 4

You can specify the paper size for Tray 1 to 4.

- 220-240V: Auto Detect, A3 \square , A4 \square \square , A5 \square , B4 JIS \square , B5 JIS \square \square , 11" × 17" \square , 8 $^1/_2$ " × 14" \square , 8 $^1/_2$ " × 13" \square , 8 $^1/_2$ " × 11" \square \square , 8 $^1/_4$ " × 13" \square , 8" × 13" \square , 7 $^1/_4$ " × 10 $^1/_2$ " \square \square , Custom Size
- 120V : Auto Detect, 11" × 17" \(\operatorname{A}\), 8\(^1/_2\)" × 14" \(\operatorname{A}\), 8\(^1/_2\)" × 13" \(\operatorname{A}\), 8\(^1/_2\)" × 13" \(\operatorname{A}\), 8" × 13" \(\operatorname{A}\), 7\(^1/_4\)" × 10\(^1/_2\)" \(\operatorname{A}\), A4 \(\operatorname{A}\), A5 \(\operatorname{A}\), B5 \(\operatorname{A}\); \(\operatorname{A}\), B5 \(\operatorname{A}\); \(\operatorname{A}\), Custom Size



- Default:
 - 220-240V : Auto Detect
 - 120V : Auto Detect
- Only installed trays appear on the display panel.

Paper Type: Bypass Tray

No Display (Plain Paper), Recycled Paper, Special Paper 1, Special Paper 2, Special Paper 3, Colour Paper, Letterhead, Label Paper, OHP (Transparency), Envelope, Preprinted Paper, Bond Paper, Cardstock, Thin Paper, Middle Thick, Thick Paper 1, Thick Paper 2, Thick Paper 3, Thick 1: Dup.Back, Thick 2: Dup.Back, Thick 3:Dup.Back, +Custom 1, +Custom 2, +Custom 3, +Custom 4, +Custom 5, +Custom 6, +Custom 7, +Custom 8



- Default: No Display (Plain Paper)
- For details about the types of paper that can be loaded in the Bypass Tray, see Hardware Guide.
- Be sure to set a paper type using the control panel. If you do not set it, the printing result might not be proper.

Paper Type: Tray 1 to 4/LCT

No Display (Plain Paper), Recycled Paper, Special Paper 1, Special Paper 2, Special Paper 3, Colour Paper, Letterhead, Label Paper, Preprinted Paper, Bond Paper, Cardstock, Thin Paper, Middle Thick, Thick Paper 1, Thick Paper 2, Thick Paper 3, Thick 1:Dup.Back, Thick 2:Dup.Back, Thick 3:Dup.Back, +Custom1, +Custom2, +Custom3, +Custom4, +Custom5, +Custom6, +Custom7, +Custom8



- Default : No Display (Plain Paper)
- For details about the types of paper that can be loaded in each tray, see Hardware Guide.
- Be sure to set a paper type using the control panel. If you do not set it, the printing result might not be proper.
- Only installed trays appear on the display panel.

Duplex Tray

You can set each tray for duplex printing.

- Tray 1 to Tray 4/LCT
 - On
 - Off



- Default : On
- Only installed trays appear on the display panel.

Auto Tray Select

You can select whether to assign each tray to automatically print the paper size and type set by printer driver.



- Default: On
- When using custom size paper, if automatic tray selection is enabled, the size selected on the
 control panel has priority. If this setting is disabled, the size selected from the printer driver has
 priority.
- Only installed trays appear on the display panel.
- You can select multiple trays.
- If you need to have a tray locked, you must select the tray using both printer driver and control panel.

Tray Priority

You can set a tray to be checked first when automatic tray selection is enabled from the printer driver. The tray selected here is used when no tray is selected for a print job.



- Default: Tray 1
- Only installed trays appear on the display panel.
- It is recommended that you load paper of the size and orientation you use most frequently in the tray selected in this setting.



• JIS stands for "Japanese Industrial Standard".

Maintenance Menu

You can set printing conditions such as density and calibration, and printer management such as deleting temporary print jobs from the hard disk.

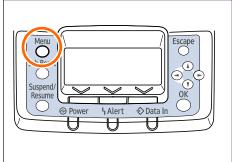
Changing the Maintenance Menu

This section explains changing the maintenance menu using examples.

Automatic deletion of temporary jobs in the hard disk

Follow the procedure below to set automatic deletion of temporary jobs stored in the hard disk.

1. Press the [Menu] key.



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The menu screen appears.

- 2. Press the [▼] or [▲] key to display [Maintenance], and then press the [OK] key.
- 3. Press the [▼] or [▲] key to display [HD Management], and then press the [OK] key.
- 4. Press the [▼] or [▲] key to display [Auto Del. Temp. Print Jobs], and then press the [OK] key.
- 5. Press the [♥] or [▲] key to select [On], and then press the [OK] key.
- Press the [▼] or [♠] key to set automatic deletion timer in hours between 1 through 200.
- 7. Press the [OK] key.

Wait for one second. The hard disk management screen appears.

8. Press the [Menu] key.

The initial screen appears.

Maintenance Menu Parameters

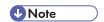
This section explains about parameters that can be set on the maintenance menu.

Quality Maintenance

Image Density Adjustment

You can select the print image density.

• -3 to 3



• For details, see Hardware Guide.

Registration

You can adjust the starting position of the printing page.

Print Test Sheet

You can print the registration test sheet.

Tray 1, Tray 2, Tray 3, Tray 4, LCT, Bypass Tray, Duplex Unit



- Only the installed trays appear on the display panel.
- Adjustment

You can select the start position for printing on a page.

Vertical:Tray1, Vertical:Tray2, Vertical:Tray3, Vertical:Tray4, Vertical:LCT, Vertical:Bypass Tray, Vertical:Duplex Back Side, Horizontal:All Trays, Horizontal:Bypass Tray, Horizontal:Duplex Back



• Only the installed trays appear on the display panel.

General Settings

Letterhead Setting

You can select the letterhead printing mode.

Letterhead 1, Letterhead 2, Letterhead 3



• Default: Letterhead 1

Label Paper Setting

You can select the label paper printing mode.

E

• Label Paper 1, Label Paper 2, Label Paper 3



• Default: Label Paper 1

Envelope Setting

You can select the envelope printing mode.

Bypass Tray
 Envelope 1, Envelope 2, Envelope 3



• Default: Envelope 1

Replacement Alert

Use this function to specify the timing to notify user when supplies need to be replaced. Settings can be made separately for photo conductor unit, intermediate transfer unit, or fusing unit.

Maintenance Kit A

Notify Sooner, Normal, Notify Later



Default: Normal

• Maintenance Kit B

Notify Sooner, Normal, Notify Later



• Default: Normal

Supply End Option

Use this function to specify the whether or not to continue printing when the following supplies end: photo conductor unit, intermediate transfer unit, fusing unit.

- · Continue Printing
- Stop Printing



• Default: Continue Printing

Display Supply Info

You can select whether or not to display the amount of toner on the initial screen.

- On
- Off



• Default: On

Menu Protect

You can select whether or not to protect menu. When you enable this setting, specify protection level.

- Level 1
- Level 2
- Off



- Default: Level 2
- If you would like to lower the protection level, disable this setting or select [Level 1].
- You may not be able to change this setting depending on the setting of the printer.

List/Test Print Lock

You can select whether or not to prohibit List/Test printing.

- On
- Off



- · Default: Off
- You may not be able to change this setting depending on the setting of the printer.

Warm-up Beeper

You can select whether or not to sound the beeper when the printer has completed a warm-up process.

- On
- Off



• Default: On

Display Contrast

You can specify the density of the display.

Key Repeat

You can specify whether or not to scroll the display panel when the $[\blacktriangle]$ or $[\blacktriangledown]$ key is held down. When you enable this setting, specify the scroll speed. (If repeat time is set to "Long", scroll speed becomes slow.)

- Do not Repeat
- Normal

Repeat Time: Medium

• Repeat Time: Long

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• Default: Normal

Timer Settings

Auto Reset Timer

Specify whether or not to cancel settings made if no operation has been performed for a certain period of time while changing configuration using the control panel. When set to on, specify how long the printer is to wait before resetting configuration.

- On
- Off



• Default: On (60 seconds)

Set Date

You can set the date of the printer's internal clock using the $[^{\blacktriangle}]$ or $[^{\blacktriangledown}]$ key.

Set Time

You can set the time of the printer's internal clock using the [▲] or [▼] key.

HD Management

Specify the settings related to deletion of data saved on the hard disk. This menu appears only when the optional hard disk is installed.

Delete All Temporary Jobs

Use this function to delete all temporary documents saved on the hard disk (Sample Print, Locked Print and Hold Print data) at once.

Delete All Stored Jobs

Use this function to delete all Stored Print data saved on the hard disk at once.

Auto Delete Temporary Jobs

Specify whether or not to automatically delete temporary documents saved on the hard disk (Sample Print, Locked Print and Hold Print data). When set to on, specify how long the printer is to wait before deleting the documents.

- On
- Off



- Default: Off
- If you enable this setting, specify the timer in hours. (Default: 8 hours)

Auto Delete Stored Jobs

Specify whether or not to automatically delete Stored Print data saved on the hard disk. When set to on, specify how long the printer is to wait before deleting the documents.

- On
- Off



- Default: On
- If you enable this setting, specify the timer in days. (Default: 3 days)

Reset IPDS Fonts

Use this page to delete all IPDS captured fonts.



• This menu appears only when the optional IPDS unit is installed.

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List/Test Print Menu

You can print lists showing configurations on printer or the paper printings.

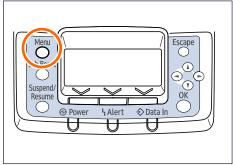
Also, you can check the types and characters of all the printable fonts.

Printing a Configuration Page

Follow the procedure below to print the configuration page.



- The configuration page is printed on A4 or Letter (8¹/₂"×11") size paper, so load them in the same paper tray.
- 1. Press the [Menu] key.



BEK204S

The menu screen appears.

- 2. Press the [♥] or [♠] key to display [List/Test Print], and then press the [OK] key.
- Press the [▼] or [▲] key to display [Config. Page], and then press the [OK] key.
 After the configuration page is printed out, the screen returns to List/Test print menu.
- 4. Press the [Menu] key.

The initial screen appears.

Interpreting the Configuration Page

System Reference

Unit Number

Shows the serial number assigned to the board by its manufacturer.

Total Counter

Shows the total number of pages printed by the printer to date.

Firmware Version

Printer

Shows the version number of the printer controller firmware.

• Engine

Shows the version number of the printer engine firmware.

• NIB

Shows the version number of the network interface board.

Device Connection

Shows the names of device options installed in the printer.

HDD:Font / Macro Download

Shows the hard disk status

Printer Language

Shows the version number of the printer language.

Attached Equipment

Shows the options attached to the printer.

Paper Input

Shows the current Paper Input settings.



• For details, see p.137 "Paper Input Menu".

Maintenance

Shows the current Maintenance settings.

Reference

• For details, see p.141 "Maintenance Menu".

System

Shows the current System settings.



• For details, see p.151 "System Menu".

Machine Modes

Shows the current Machine Modes settings.

■ Reference

• For details, see p.156 "Print Settings Menu".

PCL Menu

Shows the current PCL settings.

Reference

• For details, see p.156 "Print Settings Menu".

PS Menu

Shows the current PS settings.

Reference

• For details, see p.156 "Print Settings Menu".

PDF Menu

Shows the current PDF settings.

Reference

• For details, see p.156 "Print Settings Menu".

Host Interface

Shows the current Host Interface settings.

When DHCP is active on the network, the IPv4 address, subnet mask and gateway address appear in parentheses.

Reference

• For details, see p.178 "Host Interface Menu".

Interface Information

Interface information is displayed.

List/Test Print Menu Parameters

This section explains about parameters that can be set on the list/test print menu.

Multiple Lists

You can print the configuration page and error log, network summary and supply list.

Config. Page

You can print the current configuration of the printer.

Error Log

You can print an error report.

Network Summary

You can print the network device status.

Supply Info List

You can print the supply status.

You can print a menu list showing all available menus.

PCL Config./Font Page

You can print the current configuration and installed PCL font list.

PS Config./Font Page

You can print the current configuration and installed PostScript font list.

PDF Config./Font Page

You can print the current configuration and installed PDF font list.

IPDS Font List

You can print a list of IPDS-supported fonts.

Hex Dump

You can print the data sent by the computer using Hex Dump.

Operations Test

Use this to check the printer and its options for operability, including paper feed and output, punching and stapling. Only settings of installed options are displayed. If a specified function fails, the printer displays a message and stops printing. If the test is successful, the printer prints black frames.

C

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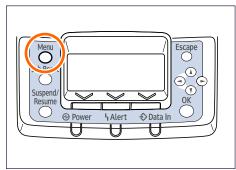
System Menu

The system menu allows you to set the printer's basic functions. Although you can operate the printer using the default settings, you can also change its settings to better suit your printing needs. Changes made to settings remain effective after power off.

Changing the System Menu

Follow the procedure below to change the settings for Energy Saver Timer.

1. Press the [Menu] key.



BEK204S

The menu screen appears.

- 2. Press [▲] or [▼] key to display [System], and then press the [OK] key.
- 3. Press [▲] or [▼] key to display [Energy Saver], and then press the [OK] key.
- 4. Press the [▲] or [▼] key to select [Energy Saver Timer], and then enter the [OK] key.
- 5. Press the [▲] or [▼] key to select the lead time needed to switch to Energy Saver mode.
- 6. Press the [OK] key.

Wait for one second. The Energy Saver screen appears.

7. Press the [Menu] key.

The initial screen appears.

System Menu Parameters

This section explains about parameters that can be set on the system menu.

Print Error Report

Select whether or not to print an error report when a printer error or memory error occurs.

Off

• On



• Default: Off

Auto Continue

Specify whether or not to continue printing after a system error. When you enable this setting, specify how long the printer is to display error before resuming print.

- Off
- Immediate
- 1 minute
- 5 minutes
- 10 minutes
- 15 minutes



- Default: Off
- When this setting is set to on, and a certain error occurs in the printer while printing out, the job
 might be cancelled. When a job is cancelled due to error, the printer automatically begins the
 next job in the queue.

Memory Overflow

You can specify whether or not to print a memory overflow error report.

- Do not print
- Error Information



· Default: Do not print

Printer Language

You can specify the printer language.

- Auto
- PCL
- PS
- PDF



• Default: Auto

Sub Paper Size

Specify whether or not to use paper of the alternate size automatically, if paper of the specified size is not loaded. When this setting is set to off, the printer uses paper of any size loaded in the specified tray.

- Auto
- Off



· Default: Off

Default Printer Language

Select the printer language to use when the printer fails to detect the printer language.

- PCL
- PS
- PDF



• Default: PCL

Energy Saver

In Energy Saver mode, electric power consumption is reduced.

Energy Saver On/Off

Select whether or not to switch to Energy Saver mode.

- On
- Off



- Default: On
- When the printer switches to Energy Saver mode, the Power indicator is unlit, but the Online indicator remains lit.

Energy Saver Timer

Specify the lead time needed to switch to Energy Saver mode.

- 1 minute
- 5 minutes
- 15 minutes
- 30 minutes
- 45 minutes
- 60 minutes



• Default: 1 minute

Memory Usage

Select memory to be used from Font Priority or Frame Priority.

- Font Priority
- Frame Priority



• Default: Frame Priority

Spool Printing

Specify whether or not to complete spooling before starting to print.

- On
- Off



- Default: Off
- Spooling stores a sent print job temporarily in the printer, and then prints it.
- This menu appears only when the optional hard disk is installed.

RAM Disk

If the optional hard disk is not installed for PDF Direct Print, select a value of 2 MB or higher.

- OMB
- 2MB
- 4MB
- 8MB
- 16MB



When the amount of SDRAM is small and [RAM Disk] is set to [16 MB], printing may not be
possible depending on the print job and duplex printing may be canceled. If this happens,
increase the amount of SDRAM, or set [RAM Disk] to [8 MB] or less.



- Default: 4MB
- This menu appears only when the optional hard disk is not installed.
- For details about the optional SDRAM module, see Hardware Guide.

Auto Email Notify

Specify whether or not to send an error message to a preset e-mail address when an error occurs in the printer.

- On
- Off



• After changing the setting, turn off the power of the printer briefly, and then turn it on again.



- Default: On
- For information, see Web Image Monitor Help.

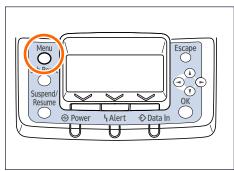
Print Settings Menu

The system menu allows you to set conditions for printing.

Changing the Print Settings Menu

Follow the procedure below to change Bypass Tray Setting Priority.

1. Press the [Menu] key.



BEK2045

The menu screen appears.

- 2. Press [▲] or [▼] key to display [Print Settings], and then press the [OK] key.
- 3. Press [▲] or [▼] key to display [Machine Modes], and then press the [OK] key.
- 4. Press the [♠] or [▼] key to select [Bypass Tray Setting Priority], and then enter the [OK] key.
- Press the [▲] or [▼] key to select the desired setting item, and then press the [OK] key.
 Wait for one second. The [Machine Modes] screen appears.
- 6. Press the [Menu] key.

The initial screen appears.

Print Settings Menu Parameters

This section explains about parameters that can be set on the print settings menu.

Machine Modes

Copies

Specify the number of copies to print.

If the number of copies to print is specified by command or the printer driver, this setting is overridden.

• 1 to 999

Ŀ

Page Size

Specify the default paper size.

220-240V: A3, A4, A5, A6, B4 JIS, B5 JIS, B6, C5 Env., C6 Env., DL Env., 11×17 , $81/2 \times 14$, $81/2 \times 13$, $81/2 \times 11$, $81/4 \times 13$, 8×13 , $71/4 \times 101/2$, $51/2 \times 81/2$, $41/8 \times 91/2$, $37/8 \times 71/2$, Custom Size



- Default:
 - **220-240V** : A4
 - 120V : 81/2 × 11
- The default paper size is used when the paper size is not specified in the print data.

Edge to Edge Print

Select to whether or not to print using the whole area of paper, leaving no edge borders.

- On
- Off



• Default: Off

Duplex

Select whether or not to print on both sides of a sheet. When set to on, specify the binding method.

- Off
- Long Edge Bind
- Short Edge Bind



• Default: Off

Output Tray

Specify output tray to be used when the output tray is not specified in the print data.

- Standard Tray
- Finisher Upper Tray
- Finisher Shift Tray



- Default: Standard Tray
- Finisher trays appear only when an optional finisher is attached.

Job Separation

Select whether to use job separation function when paper is output to an output tray capable of job separation.

- On
- Off



• Default: Off

Rotate by 180 Degrees

Select whether or not to rotate image by 180 degrees when printing.

- On
- Off



• Default : Off

Blank Page Print

Select whether or not to print blank pages.

- On
- Off



• Default: On

Edge Smoothing

Specify the letterhead printing mode.

- On
- Off



• Default: On

Toner Saving

Specify the letterhead printing mode.

- On
- Off



• Default: Off

Letterhead Setting

Specify the letterhead printing mode.

- Off
- Auto Detect
- On (Always)



• Default: Off

Bypass Tray Setting Priority

When paper size/type setting does not match between the printer driver and the printer, you can select which setting is used.

- Driver/Command
- Machine Settings



• Default: Driver/Command

Tray Switching

Select whether or not to automatically switch to a suitable tray, when the setting of the current tray does not match the paper size/type specified by the printer driver.

- On
- Off



• Default: Off

Collate Settings

Select a collate type.

- Collate
- Shift Collate



• Default: Collate

Staple Settings

Select a stapling type.

- Off
- Top Left Slant
- Top Right Slant
- Left 2
- Top 2
- Right 2

- Top Left
- Top Right



• Default: Off

Punch Settings

Select a punch type.

- Off
- Left 2
- Top 2
- Right 2
- Left 3
- Top 3
- Right 3
- Left 4
- Top 4
- Right 4

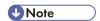


• Default: Off

Extended Auto Tray Switching

Select whether or not to automatically switch to a suitable tray, when the setting of the current tray does not match the paper size/type specified by the printer driver.

- On
- Off



• Default: Off

PCL Menu

You can set conditions when using PCL for printing.

Orientation

Select the page orientation.

- Portrait
- Landscape



• Default: Portrait

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Form Lines

Specify the number of lines per page between 5 and 128.



- Default:
 - **220-240V** : 64
 - 120V · 60
- The default paper size is used when the paper size is not specified in the print data.

Font Source

Specify the location of the default font.

- Resident
- RAM
- HDD
- SD
- SD Font Download



- Default: Resident
- When you select [RAM], you can select only fonts downloaded to the printer RAM.
- When you select [HDD], you can select only fonts downloaded to the optional hard disk.
- When you select [SD], you can select only fonts downloaded to the SD card.

Font Number

Specify the ID of the default font you want to use.

- 0 to 63 (Internal)
- 1 to X (Download; "X" is the number of downloaded fonts)



• Default: 0

Point Size

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
- This setting is effective only for a variable-space font.

Font Pitch

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.



• Default: 10.00 pitch

• This setting is effective only for fixed-space fonts.

Symbol Set

You can specify the character set for the default font. Available sets are as follows:

Roman-8, ISO L1, ISO L2, ISO L5, PC-8, PC-8 D/N, PC-850, PC-852, 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



• Default: PC-8

Courier Font

Select the type of courier font.

- Regular
- Dark



• Default: Regular

Ext. A4 Width

Select whether or not to extend the width of the printable area of A4 sheets, by reducing side margins.

- Off
- On



• Default: Off

Append CR to LF

Select whether or not to append a CR code to each LF code to print text data clearly.

- Off
- On



• Default: Off

Resolution

You can specify the print resolution in dots per inch.

- 300 dpi
- 600dpi



• Default: 600dpi

PS Menu

You can set conditions when using PostScript for printing.

Job Timeout

You can specify how long the printer waits (in seconds) before canceling the current job when the job is interrupted while being processed.

- Use Driver/Command
- Use Machine Settings



- Default: Use Driver/Command
- If you select Use Machine Settings, enter a value between 0 and 999. (Default: 0)

Wait Timeout

You can specify how long the printer waits (in seconds) before it cancels receiving a job when the printer cannot detect the end of the job.

- Use Driver/Command
- Use Machine Settings



- Default: Use Driver/Command
- If you select Use Machine Settings, enter a value between 0 and 999. (Default: 300)

Data Format

Select the data format from Binary Data or TBCP.

This setting is effective when using a parallel, USB, or EtherTalk connection.

When using a parallel or USB connection, the print job is canceled if binary data is sent from the printer driver.

When using an Ethernet connection, the print job is canceled if:

- The printer driver data format is TBCP and the data format selected using the control panel is Binary Data.
- The printer driver data format is binary and the data format selected using the control panel is TBCP.



Default: TBCP

Resolution

Select the resolution.

- 300dpi
- 600dpi



• Default: 600dpi

PDF Menu

You can set conditions when using PDF for printing.

Change PDF Password

Specify the password for the PDF file executing PDF Direct Print.



- If you do not set a PDF password, this menu does not appear.
- The password can be set using Web Image Monitor, but must be sent through the network.
 For increased security, use this menu on the control panel to set the password directly.

PDF Group Password

Specify a group password specified using DeskTopBinder Lite.



- If you do not set a PDF group password, this menu does not appear.
- When you use a group password, the optional data protection unit must be installed.
- The password can be set using Web Image Monitor, but must be sent through the network.
 For increased security, use this menu on the control panel to set the password directly.
- Default: no password set

Resolution

Specify the resolution for the PDF file executing PDF Direct Print.

- 300dpi
- 600dpi



• Default: 600dpi

IPDS Menu

You can set conditions when using PCL for printing. This menu appears only when the optional IPDS unit is installed.

Tray Form

Specify an IPDS form for each paper tray.

For each paper tray, select the IPDS form you want to allocate to it.

- Tray 1
- Tray2
- Tray3
- Tray4
- LCT
- Bypass Tray



• Only installed trays appear on the display panel.

Emulation Mode

Specify the emulation mode.

- Native
- 4028



• Default: Native

Print Mode

Specify the print mode.

- Standard
- Enhanced



• Default: Standard

Default Code Page

Specify the default code page.

- 37
- 38
- 260
- 273
- 274
- 276
- 277
- 278
- 280
- 281
- 284

- 285
- 286
- 287
- 288
- 290
- 297
- 420
- 423
- 424
- 500
- 870
- 871
- 875
- 880
- 892
- 893
- 905
- 1025
- 1026
- 1140
- 1141
- 1142
- 1143
- 1144
- 1145
- 1146
- 1147
- 1148
- 1149

Note

• Default: 37

Default FGID

Specify the default FGID (Font Typeface Global Identifier), which identifies the printer's default resident font.

- 3
- 11
- 12
- 18
- 19
- 46
- 60
- 76
- 85
- 86
- 92
- 108
- 111
- 112
- 159
- 164
- 203
- 221
- 223
- 244252
- 254256
- 281
- 283
- 290
- 304
- 307
- 322
- 416

- 420
- 424
- 428
- 701
- 2304
- 2305
- 2306
- 2307
- 2308
- 2309
- 2310
- 2311
- 5687
- 5707
- 5815
- 5835



• Default: 416

Characters Per Inch

Specify the number of characters per inch (pitch) for the default font. Valid values are 5.0 to 30.0 in units of one tenth of an inch.



• Default: 10.0

Printable Area Check

Enable or disable valid printable area checking.

- On
- Off



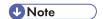
• Default: On

Page

Specify how data is positioned on the page.

- Whole
- Comp1

- Comp2
- Print

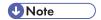


• Default: Whole

Edge to Edge

Enable or disable "Edge to Edge" printing.

- On
- Off



• Default: Off

Font Substitution

Enables or disables font substitution.

- On
- Off



• Default: Off

Caching

Specify whether or not to apply caching for repeated overlays.

- On
- Off



• Default: On

Font Capture

Enable or disable font capturing.

- On
- Off



- Default: On
- This menu appears only when the optional hard disk is installed.

Resolution

Specify the resolution reported to the host in the "IPDS XOAOPC" command for raster coded fonts and IM1 image support.

Auto

- 240 dpi
- 300 dpi
- 600 dpi



• Default: 300 dpi

Graphic Character String

Specify the Graphic Character String (Graphic Character Sizing) processing method.

- Auto
- Character Scale
- Font Activation



• Default: Auto

Bar Code

Specify the barcode level protocol.

- Auto
- 4028
- Native



• Default: Auto

Box Draw

Specify the Box Draw processing.

- On
- Off



• Default: On

Color Simulation

Let you specify how color specification controls are processed on a monochromatic printer.

- Fidelity
- Legacy



• Default: Fidelity

Text Color Simulation

Specify how text color specification controls are processed on a monochrome laser printer.

- On
- Off



• Default: On

Suppress Staple Count Nacks

Let you select whether or not to notify the user when stapling errors occur.

- On
- Off



- Default: On
- This menu appears only when the optional staple unit is installed.

Suppress Punch Nacks

Let you select whether or not to notify the user when punching errors occur.

- Or
- Off



- Default: On
- This menu appears only when the optional punch unit is installed.

Tray Mapping

Map the media source (input tray) to an ID the host uses for the media source.

- Tray 1, Tray 2, Tray 3, Tray 4, LCT, Bypass Tray
- Auto, Specify



- Default: Auto
- Only installed trays appear on the display panel.

Corner Staple Angle

Let you select [Vertical] or [Slant] for the angle of stapling.

- Vertical
- Slant



- Default: Vertical
- This menu appears only when the optional staple unit is installed.

Offset

Specify whether or not the output is offset (jogged).

- On
- Off



• Default: On

Default Punch Pattern

Specify the default number of holes to punch if the punch unit provides a selection (for example, two or four holes).

- 2 Holes
- 3 Holes
- 4 Holes



- Default:
 - When 2-/3-hole type punch unit is installed: 3 Holes
 - When 2-/4-hole type punch unit is installed: 4 Holes
 - When 4-hole type punch unit is installed: 4 Holes
- This menu appears only when the optional punch unit is installed.

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Security Options Menu

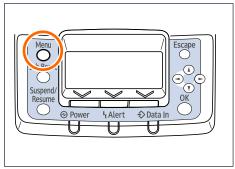
The system menu allows you to set conditions for printing.

Changing the Security Options Menu

Follow the procedure below to erase data inside memory.

Mportant !

- This setting appears only when the optional security card is installed.
- 1. Press the [Menu] key.



BEK204S

The menu screen appears.

- 2. Press [▲] or [▼] key to display [Security Options], and then press the [OK] key.
- 3. Press [▲] or [▼] key to display [Extended Security], and then press the [OK] key.
- 4. Press the [▲] or [▼] key to select [Erase All Memory], and then press the [OK] key.
- 5. Press the [▲] or [▼] key to select [On], and then press [EraseNo.].
- 6. Press the [▲] or [▼] key to enter overwrite times, and then press the [OK] key.
- 7. Press the [▲] or [▼] key to select [On], and then press the [OK] key.
 Wait for one second. The [Security Options] menu appears.
- 8. Press the [Menu] key.

The initial screen appears.

Security Options Menu Parameters

This section explains about parameters that can be set on the security options menu.

Extended Security

Depending on the setting of the printer, some of the settings listed below may not appear.

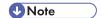
Driver Encryption Key

Specify the driver encryption key.

Encrypt Address Book

Select whether or not to encrypt the printer's address book data.

- On
- Off



• Default: Off

Restrict User Info.Display

Select whether or not to display user information as "****** when checking job information without being authenticated through user authentication.

- On
- Off



• Default: Off

Enhance File Protection

Select whether or not to automatically lock password-protected print files if an invalid password is entered ten times. When a file is locked, you cannot select them even if the correct password is entered.

- On
- Off



• Default: Off

Settings by SNMP v1 and v2

Select whether or not to prohibit changes to the printer settings through access using SNMPv1, v2 protocol.

- Prohibit
- · Do not prohibit



• Default: Do not prohibit

Simple Encryption

Select whether or not to use simple, or restricted, encryption when enhanced encryption cannot be used.

- Restrict
- Do not Restrict



• Default: Do not Restrict

Authenticate Current Job

Select whether or not authentication is required for operations such as canceling jobs. If set to [Login Privilege], only authorized users or printer administrator can operate the printer. If set to [Access Privilege], users who sent a print job or the printer administrator can operate the printer.

- Login Privilege
- Access Privilege
- Off



• Default: Off

Password Policy

Specify the format of passwords: types of characters to be used and minimum length.

Valid characters for passwords are upper-case letters, lower-case letters, decimal numbers, and symbols such as #. If complexity is set to [Level 1], passwords must use two types of these characters; if set to [Level 2], three types.

Complexity Setting



- Default: Do not Restrict
- Minimum Character No.

Between 0 to 32



- Default: 0
- If set to 0, minimum length is not specified.

@Remote Service

Select whether or not to prohibit @Remote service.

- Prohibit
- Do not prohibit



- Default: Do not prohibit
- If you would like to set to Prohibit, contact your service representative.

Update Firmware

Select whether or not to prohibit Update Firmware.

- Prohibit
- Do not prohibit



- Default: Do not prohibit
- If you would like to set to Prohibit, contact your service representative.

Change Firmware Structure

Select whether or not to prohibit Change Frimware Structure.

- Prohibit
- Do not prohibit



- Default: Do not prohibit
- If you would like to set to Prohibit, contact your service representative.

Service Mode Lock

Select whether or not to prohibit entering service mode.

- On
- Off



- Default: Off
- This setting may not appear depending on the setting of the printer.

Firmware Version

Display the firmware version of the printer.

Network Security Level

Specify the network security level.

- Level 0
- Level 1
- Level 2



• Default: Level 0

Auto Erase Memory Setting

Select whether or not to automatically delete memory. When set to on, specify the overwrite times.

On

No. of Erase: Between 1 to 3

Off



· Default: Off

• This setting appears only when the optional security card is installed.

Erase All Memory

Select to delete all data inside the memory. When deleting memory, specify the overwrite times.

No. of Erase
 Between 1 to 3



• This setting appears only when the optional security card is installed.

Transfer Log Setting

You can select whether or not to send log information to the log collection server.

- On (Only available from the log collection server.)
- Off



· Default: Off

Machine Data Encryption

Encrypt data stored on the hard disk. Once you encrypt the data, the following menus appear on the control panel display.

Update Encryption Key
 Update the encryption key.

• Cancel Encryption

Cancel the encryption settings.

Print Encryption Key
 Print the encryption key.



• This setting appears only when the optional HDD encryption unit is installed.

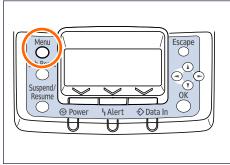
Host Interface Menu

You can set configurations about network connections and communication when using parallel connection between the printer and the computer. The changed configuration holds even if the printer is turned off.

Changing the Host Interface Menu

Follow the procedure below to change the I/O Timeout setting.

1. Press the [Menu] key.



BEK204S

The menu screen appears.

- 2. Press the [♥] or [♠] key to display [Host Interface], and then press the [OK] key.
- Press the [▼] or [▲] key to display [I/O Timeout], and then press the [OK] key.
- 4. Press the [♥] or [♠] key to select the lead time needed to end a printing operation, and then press the [OK] key.

Wait for one second. The [Host Interface] menu appears.

5. Press the [Menu] key.

The initial screen appears.

Host Interface Menu Parameters

This section explains parameters that can be set on the host interface menu.

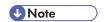
I/O Buffer

Select the size of I/O Buffer. Normally it is not necessary to change this setting.

- 128 KB
- 256 KB

5





Default: 128 KB

I/O Timeout

Specify how many seconds the printer should wait before ending a print job. If printing operation is frequently interrupted by data from other ports, you can increase the timeout period.

- 10 seconds
- 15 seconds
- 20 seconds
- 25 seconds
- 60 seconds



• Default: 15 seconds

Network

You can make network-related settings.

Machine IPv4 Address

Select whether to set the IPv4 address automatically or manually.

• Auto-Obtain (DHCP)/Specify (Default: Auto-Obtain (DHCP))

When DHCP is set to on, the IPv4 address, subnet mask address, and gateway address cannot be changed. To change them, set DHCP to off. Contact your administrator for information about the network configuration.

• IP Add.

Manually specify the IPv4 address.



• Default: 11.22. 33.44

• Subnet M

Manually specify the subnet mask.



Default: 0.0.0.0

Gateway

Manually specify the gateway address.



• Default: 0.0.0.0

IPv6 Stateless Setting

Select whether to enable or disable IPv6.

- Active
- Inactive



• Default: Active

IPsec

This is a security function. For details, contact your network administrator.

- Active
- Inactive



• Default: Inactive

NW Frame Type

Specify the frame type for NetWare.

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



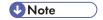
• Default: Auto Select

Effective Protocol

Specify the effective protocol.

IPv4

Active, Inactive



- Default: Active
- IPv6

Active, Inactive



- Default: Inactive
- NetWare

Active, Inactive





- Default: Active
- SMB

Active, Inactive



- · Default: Active
- Apple Talk

Active, Inactive



• Default: Active

Ethernet Speed

Specify the network speed to operate the printer.

- Auto Select
- 10Mbps Full Duplex
- 10Mbps Half Duplex
- 100Mbps Half Duplex
- 100Mbps Full Duplex



• Default: Auto Select

LAN Type

Select Ethernet or Wireless LAN.

- Ethernet
- Wireless LAN



- Default: Ethernet
- This menu appears only when the optional wireless LAN interface unit is installed.

Wireless LAN

Configure settings for wireless LAN. This menu appears only when the optional wireless LAN interface unit is installed.

Communication Mode

Specify the transmission mode for wireless LAN.

- 802.11 ad-hoc Mode
- Infrastructure Mode



• Default: Infrastructure Mode

SSID Setting

Specify an SSID in infrastructure mode and Ad-hoc mode.

- View
- Enter ID



- Default: blank (ASSID)
- Select [?] to enter [/] for the SSID. Also, [¥] appears when printing the configuration page, read it as [/].
- Characters used are ASCII 0x20-0x7e (32 bytes).
- An SSID is set automatically to the nearest access point if no SSID has been set.
- If no SSID has been set for Ad-hoc mode, an SSID is set automatically and the same SSID is used for Ad hoc mode and infrastructure mode.
- If blank is specified in SSID for Ad hoc mode, "ASSID" appears.
- An SSID can also be set using Web Image Monitor. For details, see Web Image Monitor Help.

Ad-hoc Channel

Select channels: 1-13, 36,40,44,48 (220-240V)/1-11, 36,40,44,48 (120V)



• Default: 11

Security Method

Select whether to enable encryption and specify the security type when the encryption is enabled.

- Off
- WEP Change (HEX), Change (ASCII)
- WPA

Encryption Method (TKIP, CCMP(AES)), Authentication Method (WPA-PSK, WPA (802.1X)), (WPA2-PSK), (WPA2)



- Default: Off
- WPA appears only when the optional wireless LAN interface unit is installed.

Wireless LAN Signal

You can check the signal strength when using wireless LAN.

Restore Defaults

Reset the wireless LAN to default.

USB Settings

Select speed for USB interface.

USB Speed

- Auto
- Full Speed



• Default: Auto

Fixed USB Port

- On
- Off



• Default: Off

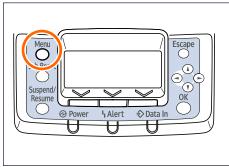
Language Menu

You can set a language to be displayed on the menu.

Changing the Language Menu

Follow the procedure below to change the interface language.

1. Press the [Menu] key.



BEK204

The menu screen appears.

- 2. Press the [▲] or [▼] key to display [Language], and then press the [OK] key.
- Press the [▲] or [▼] key to select the language, and then press the [OK] key.
 Wait for one second. The [Language] menu screen appears.
- 4. Press the [Menu] key.

The initial screen appears.

Language Menu Parameters

You can select the language you use. Available languages are as follows:

English, German, French, Italian, Dutch, Swedish, Norwegian, Danish, Spanish, Finnish, Portuguese, Czech, Polish, Hungarian, Russian.



• Default: English

E

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.

- Displaying printer status or settings
- · Checking the print job status or history
- · Interrupting currently printing jobs
- · Resetting the printer
- · Managing the Address Book
- Making printer settings
- · Making network protocol settings
- Making security 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:

Firefox 1.0 or higher

Safari 1.0, 1.2, 2.0 (412.2) or higher

Web Image Monitor supports screen reader software. We recommend JAWS 7.0 or a later version.



- Safari cannot be used on Mac OS X 10.4.1.
- Display and operation problems can occur if you do not enable JavaScript and cookies, or if you are
 using a non-recommended Web Browser.

- If you are using a proxy server, change the Web browser settings. Contact your administrator for information about the settings.
- If you click your browser's back button but the previous page does not appear, click the browser's refresh button and try again.
- Printer information is not automatically updated. To perform an update, click [Refresh] in the display area.
- We recommend using Web Image Monitor in the same network.
- You cannot access to the printer from outside the firewall.
- When using the printer under DHCP, the IP address may be automatically changed by the DHCP server settings. Enable DDNS setting on the printer, and then connect using the printer's host name.
 Alternatively, set a static IP address to the DHCP server.
- If the HTTP port is disabled, connection to the printer using the printer's URL cannot be established. SSL setting must be enabled on this printer. For details, consult your network administrator.
- When using the SSL encryption protocol, enter "https://(printer's IP address or host name)/".
- Internet Explorer must be installed on your computer. Use the most recent available version. We recommend Internet Explorer 6.0 or later.
- When you are using Firefox, fonts and colors may be different, or tables may be out of shape.
- When using a host name under Windows Server 2003 or Windows Vista with IPv6 protocol, perform host name resolution using an external DNS server. The host file cannot be used.
- To use JAWS 7.0 under Web Image Monitor, you must be running Windows OS and Microsoft Internet Explorer 5.5 SP2, or a later version.

Displaying Top Page

This section explains the Top Page and how to display Web Image Monitor.

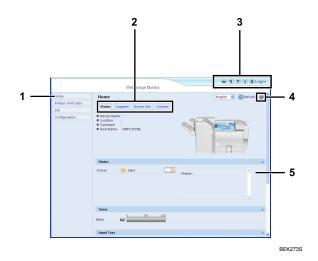


- When entering an IPv4 address, do not begin segments with zeros. For example: If the address is "192.168.001.010", you must enter it as "192.168.1.10".
- 1. Start your Web browser.
- Enter "http://(printer's IP address or host name)/" in your Web browser's URL bar.
 Top Page of Web Image Monitor appears.

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

When setting SSL, a protocol for encrypted communication, under environment which server authentication is issued, enter "https://(printer's IP address or host name)/".

Every Web Image Monitor page is divided into the following areas:



1. Menu area

If you select menu, it's content will be shown on the work area, or the sub area.

2. Tab area

Details about each menu appears.

3. Header area

The dialog box for switching to the user mode and administrator mode appears, and each mode's menu will be displayed.

The link to help and dialog box for keyword search appears.

4. Help

Use Help to view or download Help file contents.

5. Display area

Displays the contents of the item selected in the menu area.

Printer information in the display area is not automatically updated. Click [Refresh] at the upper right in the display area to update the printer information. Click the Web browser's [Refresh] button to refresh the entire browser screen.



 When using a host name under Windows Server 2003 or Windows Vista with IPv6 protocol, perform host name resolution using an external DNS server. The host file cannot be used.

When User Authentication is Set

Login (using Web Image Monitor)

Follow the procedure below to log on when user authentication is set.

1. Click [Login].

2. Enter a login user name and password, and then click [Login].

For details about the login user name and password, consult your network administrator.



- For user code authentication, enter a user code in [Login User Name], and then click [Login].
- The procedure may differ depending on the Web browser used.

Log off (using Web Image Monitor)

Click [Logout] to log off.



• When you log on and made the setting, always click [Logout].

About Menu and Mode

There are two modes available with Web Image Monitor: guest mode and administrator mode.

Displayed Items may differ depending on the printer type.

Guest mode

In the guest mode, printer status, settings, and print job status can be viewed, but the printer settings cannot be changed.



1. Home

The [Status], [Configuration], [Counter], and [Inquiry] tab are displayed. Details of the tab menu are displayed on the work area.

2. Printer: Print Jobs

Allows you to display list of Sample Print, Locked Print, Hold Print, and Stored Print jobs.

3. Job

Display all print files.

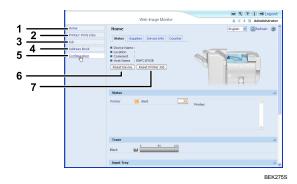
6

4. Configuration

Display current printer and network settings.

Administrator mode

In the administrator mode, you can configure various printer settings.



1. Home

The [Status], [Configuration], [Counter], and [Inquiry] tab are displayed. Details of the tab menu are displayed on the work area.

2. Printer: Print Jobs

Allows you to display list of Sample Print, Locked Print, Hold Print, and Stored Print jobs.

3. Job

Display all print files.

4. Address Book

User information can be registered, displayed, changed, and deleted.

5. Configuration

Make system settings for the printer, interface settings, and security.

6. Reset Device

Click to reset the printer. If a print job is being processed, the printer will be reset after the print job is completed. This button is located on Top Page.

7. Reset Printer Job

Click to reset current print jobs and print jobs in queue. This button is located on Top Page.

Access in the Administrator Mode

Follow the procedure below to access Web Image Monitor in the administrator mode.

1. On Top Page, click [Login].

The window for entering the login user name and password appears.

2. Enter your login user name and password, and then click [Login].

For details about the login user name and password, consult your network administrator.

Displaying Web Image Monitor Help

When using Help for the first time, clicking the icon marked "?" ([?]) makes the following screen appear, in which you can view Help in two different ways, as shown below:

Viewing Help on our Web site

Downloading Help to your computer

Downloading and checking Help

You can download Help to your computer. As the Help URL, you can specify the path to the local file to view the Help without connecting to the Internet.



- By clicking "?" (3) in the header area, the contents of Help appear.
- By clicking "?" (), the Help icon in the display area, Help for the setting items in the display area appears.

Downloading Help

- 1. In the [OS] list, select the operating system.
- 2. In the [Language] list, select the language.
- 3. Click [Download].
- 4. Download Help by following the instructions on the screen.
- Store the downloaded compressed file in a given location, and then decompress the file.
 To create a link for the Help button (??), save the downloaded Help files on a Web server.

Linking the URL of the downloaded Help

You can link the URL of the help file on a Web server to the "?" button.

- 1. Log on to Web Image Monitor in the administrator mode.
- 2. In the menu area, click [Configuration].
- 3. Click [Webpage].
- 4. In the [Set Help URL Target] box, enter the URL of the help file.

If you saved the file to a Web server, and the URL of the index file is "http://a.b.c.d/HELP/EN/index.html", enter "http://a.b.c.d/HELP/".

5. Click [OK].



• If you save the Help files on your hard disk, you must access them directly - you cannot link to them using the Help button (?? 2).

Using SmartDeviceMonitor for Admin

Using SmartDeviceMonitor for Admin, you can monitor the network printers. Also, you can change the configuration of the network interface board using TCP/IP or IPX/SPX.



IPv6 cannot be used on this function.

Protocol stack provided with operating system

Windows 2000

TCP/IP

IPX/SPX

NetWare

Novell Client for Windows NT/2000/XP

Windows Server 2003

TCP/IP

IPX/SPX

Windows XP

TCP/IP

IPX/SPX

Novell Client for Windows NT/2000/XP

Windows Vista

TCP/IP

Novell Client for Windows NT/2000/XP/Vista

Available operations

The following functions are available:

- Printer Information function
 - Display the network settings and detailed information of the printer.
 - Display the number of pages printed under each user code.
 - Display the status of print jobs sent from computers.
 - Change the printer network settings.
- Device Settings function
 - Lock some of the setting items on the control panel so that they cannot be changed using the control panel.
 - Select type of paper loaded in the paper trays.
- Energy Saver function

- Enable or disable the Energy Saver mode.
- System Status function
- Display the information such as when paper is depleted during printing on a computer.
- Groups function
 - Monitor multiple printers at the same time. When there are multiple printers to manage, you
 can create groups and classify the printers to facilitate management.
 - You can customize printer status according to groups, and send status notification e-mail to a computer.

Installing SmartDeviceMonitor for Admin

Follow the procedure below to install SmartDeviceMonitor for Admin.

- 1. Quit all applications currently running.
- 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 [SmartDeviceMonitor for Admin], and then click [Next>].

The software license agreement appears in the [License Agreement] dialog box.

- 5. After reading through its contents, click [Next>].
- 6. Follow the instructions on the screen.

A message appears when the installation is completed.

7. Click [OK].

A message about restarting the computer may appear. Restart the computer to complete installation.



- Auto Run may not work under certain operating system settings. In this case, launch "Setup.exe" located on the CD-ROM root directory.
- If you are required to restart the computer after installing SmartDeviceMonitor for Admin, restart the computer and continue the configuration.

Changing the Network Interface Board Configuration

Follow the procedure below to change the network interface board configuration using SmartDeviceMonitor for Admin.

- 1. Start SmartDeviceMonitor for Admin.
- On the [Group] menu, point to [Search Device], and then click [IPv4], [IPX/SPX] or [IPv4] SNMPv3].

A list of printers using the selected protocol appears.

Select the protocol of the printer whose configuration you want to change.

If you are using IPv4 SNMPv3, enter the user authentication.

- 3. In the list, select a printer whose configuration you want to change.
- 4. On the [Tools] menu, click [NIB Setup Tool].



A Web browser opens and the window for entering the user name and password for the Web Image Monitor administrator appears.

NIB Setup Tool starts. Follow the instruction on the screen.

5. Enter the login user name and password, and then click [Login].

For details about the login user name and password, consult your network administrator.

- 6. Configure settings using Web Image Monitor.
- 7. Click [Logout].
- 8. Quit Web Image Monitor.
- 9. Quit SmartDeviceMonitor for Admin.



• For details about Web Image Monitor, see "Using Web Image Monitor".

Reference

• p.185 "Using Web Image Monitor"

Locking the Menus on the Printer's Control Panel

Follow the procedure below to lock the menus on the printer's control panel.

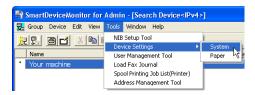
- 1. Start SmartDeviceMonitor for Admin.
- 2. On the [Group] menu, point to [Search Device], and then click [IPv4], [IPX/SPX] or [IPv4 SNMPv3].

A list of printers using the selected protocol appears.

Select the protocol of the printer whose configuration you want to change.

If you are using IPv4 SNMPv3, enter the user authentication.

- 3. In the list, select a printer whose configuration you want to change.
- 4. On the [Tools] menu, point to [Device Settings], and then click [System].



A Web browser opens and the window for entering the login user name and password for the Web Image Monitor administrator appears.

5. Enter the login user name and password, and then click [Login].

For details about the user name and password, consult your network administrator.

The [System] page of Web Image Monitor appears.

- 6. On the [Protect Printer Display Panel], select [Level 1] or [Level 2].
- 7. Click [OK].
- 8. Click [Logout].
- 9. Quit Web Image Monitor.
- 10. Quit SmartDeviceMonitor for Admin.



• For details about Web Image Monitor, see "Using Web Image Monitor".

■ Reference

p.185 "Using Web Image Monitor"

Changing the Paper Type

Follow the procedure below to change the paper type.

- 1. Start SmartDeviceMonitor for Admin.
- On the [Group] menu, point to [Search Device], and then click [IPv4], [IPX/SPX] or [IPv4 SNMPv3].

A list of printers using the selected protocol appears.

Select the protocol of the printer whose configuration you want to change.

If you are using IPv4 SNMPv3, enter the user authentication.

3. In the list, select a printer whose configuration you want to change.

A Web browser opens and the window for entering the login user name and password for the Web Image Monitor administrator appears.

5. Enter the login user name and password, and then click [Login].

For details about the login user name and password, consult your network administrator.

The [Paper] page appears.

Select a paper type in the [Paper Type] list for each tray.

- 6. Enter required setting items, and then click [OK].
- 7. Click [Logout].
- 8. Quit Web Image Monitor.
- 9. Quit SmartDeviceMonitor for Admin.



- For details about Web Image Monitor, see "Using Web Image Monitor".
- For details about setting items, see Help in the [General Settings] on [Configuration] page.

Reference

• p.185 "Using Web Image Monitor"

Managing User Information

Follow the procedure below to manage the user's information using SmartDeviceMonitor for Admin.

Prints jobs can be managed and functions restricted by user codes.

Starting User Management Tool

Follow the procedure below to start User Management Tool.

- 1. Start SmartDeviceMonitor for Admin.
- 2. On the [Group] menu, point to [Search Device], and then click [IPv4], [IPX/SPX] or [IPv4 SNMPv3].

A list of printers using the selected protocol appears.

Select the protocol of the printer whose configuration you want to change.

If you are using IPv4 SNMPv3, enter the user authentication.

3. In the list, select a printer you want to manage.

4

4. On the [Tools] menu, click [User Management Tool].



The dialog box for entering the user name and password appears.

5. Enter the user name and password, and then click [OK.]

Enter the same user name and password you enter to log on to the Web Image Monitor. For details about the user name and password, consult your administrator.

User Management Tool starts.

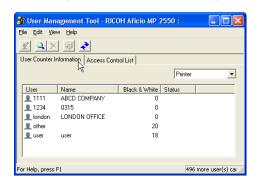


For details about User Management Tool, see SmartDeviceMonitor for Admin Help.

Displaying the number of sheets printed

Follow the procedure below to display the number of sheets printed under each user.

- 1. Start SmartDeviceMonitor for Admin User Management Tool.
- 2. Click the [User Counter Information] tab of User Management Tool.



The number of pages printed under each user appears.

3. Click [Exit] on the [File] menu to quit User Management Tool.

Exporting the information about the number of pages printed

Follow the procedure below to export the information of the number of pages printed under each user code as a ".csv" file.

1. Start SmartDeviceMonitor for Admin User Management Tool.

- 2. Click the [User Counter Information] tab of User Management Tool.
- 3. On the [File] menu, click [Export User Statistics List].



- 4. Specify the save location and file name, and then click [Save].
- 5. Click [Exit] on the [File] menu to quit User Management Tool.

Resetting the number of pages printed to 0

Follow the procedure below to reset the number of pages printed under each user to 0.

- 1. Start SmartDeviceMonitor for Admin User Management Tool.
- 2. Click the [User Counter Information] tab of User Management Tool.
- 3. Select the user whose information you want to reset.
- 4. On the [Edit] menu, click [Reset User Counters].



5. Select the check box, and then click [OK].

A confirmation message appears.

6. Click [OK].

The count for the selected paper type becomes 0 and [Modified] is displayed for [Status].

7. On the [Edit] menu, click [Apply Settings].



Changes are applied to information on the [User Counter Information] tab.

8. Click [Exit] on the [File] menu to quit User Management Tool.

Restricting functions

Follow the procedure below to restrict use of individual functions.

- 1. Start SmartDeviceMonitor for Admin User Management Tool.
- 2. Click the [User Counter Information] tab of User Management Tool.
- 3. Click the user whose functions you want to restrict.



- 5. Select the check box of the functions you want to restrict.
- 6. Click [OK].

A confirmation message appears.

7. Click [Yes].

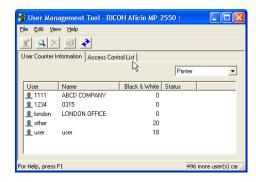
The settings are applied.

8. Click [Exit] on the [File] menu to quit User Management Tool.

Setting applicable functions to new users

Follow the procedure below to add new users and set functions applicable to them.

- 1. Start SmartDeviceMonitor for Admin User Management Tool.
- 2. Click the [Access Control List] tab of User Management Tool.



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3. On the [Edit] menu, click [Add New User].



- 4. Enter the user code and user name.
- 5. Select the check box of the functions applicable to the new user.

If the check boxes are unavailable, there is no restriction to use that function.

6. Click [OK].

The user is added, and [New] is displayed for [Status].

7. On the [Edit] menu, click [Apply Settings].

The settings are applied.

8. Click [Exit] on the [File] menu to quit User Management Tool.



• For details about setting restrictions, see SmartDeviceMonitor for Admin Help.

Configuring the Energy Saver Mode

Follow the procedure below to configure Energy Saver mode.

- 1. Start SmartDeviceMonitor for Admin.
- On the [Group] menu, point to [Search Device], and then click [IPv4], [IPX/SPX] or [IPv4 SNMPv3].

A list of printers using the selected protocol appears.

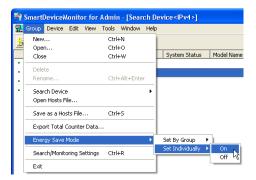
Select the protocol of the printer whose configuration you want to change.

If you are using IPv4 SNMPv3, enter the user authentication.

3. Select the printer whose settings you want to make.

To make settings for all printers in the selected group, select no printer.

4. Click the [Group] menu, point to [Energy Save Mode], [Set Individually], and then click [On].



To select all the printers in the group, select [Set By Group].

To disable Energy Save mode, click [Off].

5. Quit SmartDeviceMonitor for Admin.



• For details about the setting for Energy Saver mode, see SmartDeviceMonitor for Admin Help.

Setting a Password

Follow the procedure below to set a password.

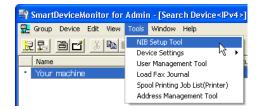
- 1. Start SmartDeviceMonitor for Admin.
- On the [Group] menu, point to [Search Device], and then click [IPv4], [IPX/SPX] or [IPv4 SNMPv3].

A list of printers using the selected protocol appears.

Select the protocol of the printer whose configuration you want to change.

If you are using IPv4 SNMPv3, enter the user authentication.

- 3. In the list, select a printer whose configuration you want to change.
- 4. On the [Tools] menu, click [NIB Setup Tool].



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A Web browser opens and the window for entering the login user name and password for the Web Image Monitor administrator appears.

NIB Setup Tool starts when the network interface board is default. Follow the instructions on the screen.

5. Enter the login user name and password, and then click [Login].

For details about the user name and password, consult your network administrator.

Top Page of Web Image Monitor appears.

- 6. Click [Configuration].
- Click [Program/Change Administrator] on the [Device Settings] area, and then change the settings.
- 8. Click [OK].
- 9. Click [Logout].
- 10. Quit Web Image Monitor.
- 11. Quit SmartDeviceMonitor for Admin.

Checking the Printer Status

Follow the procedure below to check printer status.

- 1. Start SmartDeviceMonitor for Admin.
- On the [Group] menu, point to [Search Device], and then click [IPv4], [IPX/SPX] or [IPv4 SNMPv3].

A list of printers using the selected protocol appears.

Select the protocol of the printer whose configuration you want to change.

If you are using TCP/IP SNMP v3, enter the user authentication.

To obtain status details, click the printer in the list, and then click [Open] on the [Device] menu

The printer status appears in the dialog box.

4. Click [System] or [Printer].

The printer status appears in the dialog box.

5. Quit SmartDeviceMonitor for Admin.



• For details about status icons and items in the dialog box, see SmartDeviceMonitor for Admin Help.

Follow the procedure below to change the names and comments of the printer.

- 1. Start SmartDeviceMonitor for Admin.
- On the [Group] menu, point to [Search Device], and then click [IPv4], [IPX/SPX] or [IPv4 SNMPv3].

A list of printers using the selected protocol appears.

Select the protocol of the printer whose configuration you want to change.

If you are using IPv4 SNMPv3, enter the user authentication.

3. Select a printer in the list, and then click [NIB Setup Tool] on the [Tools] menu.

A Web browser opens and the window for entering the login user name and password for the Web Image Monitor administrator appears.

NIB Setup Tool starts when the network interface board is default. Follow the instructions on the screen.

4. Enter the login user name and password, and then click [Login].

For details about the login user name and password, consult your network administrator.

Top Page of Web Image Monitor appears.

- 5. Click [Configuration].
- 6. Click [System] on the [Device Settings] area, and then change the settings.
- 7. Click [OK].
- 8. Click [Logout].
- 9. Quit Web Image Monitor.
- 10. Quit SmartDeviceMonitor for Admin.



- In the [Device Name] box, enter a device name on the printer using up to 31 characters.
- In the [Comment] box, enter a comment on the printer using up to 31 characters.
- For details about Web Image Monitor, see "Using Web Image Monitor".

Reference

• p.185 "Using Web Image Monitor"

Viewing and Deleting Spool Print Jobs

1. Start SmartDeviceMonitor for Admin.

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On the [Group] menu, point to [Search Device], and then click [IPv4], [IPX/SPX] or [IPv4 SNMPv3].

A list of printers using the selected protocol appears.

Select the protocol of the printer whose configuration you want to change.

If you are using IPv4 SNMPv3, enter the user authentication.

3. Select a printer in the list, and then click [Spool Printing Job List(Printer)] on the [Tools] menu.

A Web browser opens and the window for entering the login user name and password for the Web Image Monitor administrator appears.

4. Enter the login user name and password, and then click [Login].

For details about the login user name and password, consult your network administrator.

[Spool Printing Job List] appears in the Web Image Monitor.

- 5. Click [Logout].
- 6. Quit Web Image Monitor.
- 7. Quit SmartDeviceMonitor for Admin.



- To display Spool Printing Job List, [Spool Printing] must be set to [Active] on Web Image Monitor in advance.
- To delete the Spool Printing Job, select the document you want to delete and then click [Delete].
- For details, see Help in the [Spool Printing Job List] area.
- For details about Web Image Monitor, see "Using Web Image Monitor".

Reference

• p.185 "Using Web Image Monitor"

Using SmartDeviceMonitor for Client

To view the status of printers using SmartDeviceMonitor for Client, configure SmartDeviceMonitor for Client beforehand.

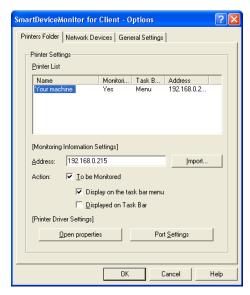
Monitoring Printers

Follow the procedure below to monitor the printer using SmartDeviceMonitor for Client.

 Right-click the SmartDeviceMonitor for Client icon, point to [Property], and then click [Monitor Device Settings...].



2. On the [Printers Folder] tab, select the printer you want to monitor, and then select the [To Be Monitored] check box in the Monitoring Information Settings area.



To display the name of the monitored printer on the task bar, you must first select the [Display on the task bar menu] check box, and then select the [Displayed on Task Bar] check box.

3. Click [OK].

The dialog box closes and the configured printer is monitored.



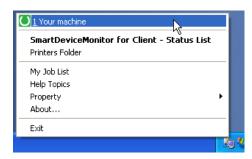
For details about status icons, see SmartDeviceMonitor for Client Help.

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Checking the Printer Status

Follow the procedure below to check printer status using SmartDeviceMonitor for Client.

 Right-click the SmartDeviceMonitor for Client icon, and then click the printer name on the task bar.



The printer status appears in the dialog box.



• For details about items in the dialog box, see SmartDeviceMonitor for Client Help.

When Using IPP with SmartDeviceMonitor for Client

When using IPP with SmartDeviceMonitor for Client, note the following:

- The network printer can only receive one print job from SmartDeviceMonitor for Client at a time. While
 the network printer is printing, another user cannot access it until the job is finished. In this case,
 SmartDeviceMonitor for Client tries to access the network printer until the retry interval expires.
- If SmartDeviceMonitor for Client cannot access the network printer and times out, it will stop sending
 the print job. In this case, you should cancel the paused status from the print queue window.
 SmartDeviceMonitor for Client will resume access to the network printer. You can delete the print job
 from the print queue window, but canceling a print job printed by the network printer might cause the
 next job sent from another user to be incorrectly printed.
- If a print job sent from SmartDeviceMonitor for Client is interrupted and the network printer cancels the job because something went wrong, send the print job again.
- Print jobs sent from another computer do not appear in the print queue window, regardless of protocol.
- If various users send print jobs using SmartDeviceMonitor for Client to network printers, the printing order might not be the same as that in which the jobs were sent.
- An IP address cannot be used for the IPP port name because the IP address is used for the SmartDeviceMonitor for Client port name.
- When setting SSL, a protocol for encrypted communication, under environment which server
 authentication is issued, enter "https://(printer's IP address or host name)/". Internet Explorer must

be installed on your computer. Use the highest version. Internet Explorer 6.0 or higher is recommended.

If the [Security Alert] dialog box appears when accessing the printer using IPP to create or configure
an IPP port, or when printing, install the certificate. To select the certificate store location when using
Certificate Import Wizard, click [Place all certificates in the following store], and then click [Local
Computer] under [Trusted Root Certification Authorities].



• For details about SSL settings, consult your network administrator.

Printer Status Notification by E-Mail

Whenever a paper tray becomes empty or paper jams, a notification e-mail is sent to the registered addresses.

You can make the timing and content settings for notification e-mail.



- 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,
 see your e-mail application's Help.
- Service call.
- Toner is empty.
- Toner is nearly empty.
- Maintenance kit needs replacing.
- Maintenance kit needs replacing soon.
- Paper has jammed.
- Cover is open.
- Paper tray is empty.
- Paper tray is nearly empty.
- Paper tray error.
- Output paper tray is full.
- Unit connection error.
- Duplex unit error.
- Waste toner bottle is full.
- Waste toner bottle is nearly full.
- Stapler has no staples.
- Punch waste receptacle is full.
- Memory for file storage is full soon.
- Log error.
- Device access violates.
- 1. Open a Web browser, and then enter "http://(printer's address)/" in the address bar.

Top Page of Web Image Monitor appears.

When setting SSL, a protocol for encrypted communication, under environment which server authentication is issued, enter "https://(printer's address)/".

2. Click [Login] on Top Page of Web Image Monitor.

The window for entering the login user name and password appears.

3. Enter the user name and password, and then click [Login].

For details about the login user name and password, consult your administrator.

- 4. In the menu area, click [Configuration].
- 5. On the [Device Settings] area, click [E-mail].
- 6. Make the following settings:
 - Items in the Reception column: Make the necessary settings for sending and receiving e-mail.
 - Items in the SMTP 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.
 - Items in the POP before SMTP column: Configure the POP server. Check your mailing environment, and then specify the necessary items. You can also perform mail authentication for the POP server.
 - Items in the POP3/IMAP4 column: Configure the POP3 or IMAP4 server. Check your mailing environment, and then specify the necessary items.
 - Items in the E-mail Communication Port column: Configure the port to be used for access to the mail server.
 - Items in the E-Mail Notification Account column: Specify these items if you want to use on-demand e-mail notification.
- 7. Click [OK].

Auto E-mail Notification

 Click [Configuration] in the menu area, and then click [Auto E-mail Notification] on the [Device Settings] area.

The dialog box for making notification settings appears.

- 2. Make the following settings:
 - Items in Notification Message column: You can set this according to your needs, for example, the printer's location, service representative contact information.
 - Items in the Groups to Notify column: E-mail notification addresses can be grouped as required.
 - Items in the Select Groups/Items to Notify column: Select groups for each notification type, such
 as printer status and error.

To make detailed settings for these items, click [Edit] next to [Detailed Settings of Each Item].

- 3. Click [OK].
- 4. Click [Logout].
- 5. Quit Web Image Monitor.

On-demand E-mail Notification

 Click [Configuration] in the menu area, and then click [On-demand E-mail Notification] on the [Device Settings] area.

The dialog box for making notification settings appears.

- 2. Make the following settings:
 - Notification Subject: Enter a text string to be added to the subject line of return e-mails.
 - Items in Notification Message column: You can set this according to your needs, for example, the printer's location, service representative contact information.
 - Items in the Access Restriction to Information column: Select whether to restrict accesses based on a specific category of information.
 - Items in the Receivable E-mail Address/Domain Name Settings column: Enter an e-mail address
 or domain name to use for requesting information by e-mail and to receive its return e-mail.
- 3. Click [OK].
- 4. Click [Logout].
- 5. Quit Web Image Monitor.

Mail authentication

You can configure mail authentication to prevent illegal use of the mail server.

SMTP authentication

Specify SMTP authentication.

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. This prevents illegal use of the SMTP server.

- 1. In the menu area, click [E-mail]
- 2. Make the following settings:
 - SMTP Authentication: Enable or disable SMTP authentication.
 - SMTP Auth. E-mail Address: Enter the e-mail address.
 - SMTP Auth. User Name: Enter the SMTP account name.
 - SMTP Auth. Password: To set or change the password for SMTP AUTH.
 - SMTP Auth. Encryption: Select whether to encrypt the password or not.

[Auto Select]: If the authentication method is PLAIN, LOGIN, CRAM-MD5, or DIGEST-MD5.

[Active]: If the authentication method is CRAM-MD5 or DIGEST-MD5.

[Inactive]: If the authentication method is PLAIN or LOGIN.

- 3. Click [OK].
- 4. Click [Logout].
- 5. Quit Web Image Monitor.

POP before SMTP authentication

Select whether to log on to the POP3 server before sending e-mail.

- 1. In the menu area, click [E-mail].
- 2. Make the following settings:
 - POP before SMTP: Enable or disable POP before SMTP.
 - POP E-mail Address: Enter the e-mail address.
 - POP User Name: Enter the POP account name.
 - POP Password: To set or change the POP password.
 - Timeout setting after POP Auth.: Enter the time available before connecting to the SMTP server after logging on to the POP server.
- 3. Click [OK].
- 4. Click [Logout].
- 5. Quit Web Image Monitor.

Sending On-demand E-mail

To use on-demand e-mail notification, perform the following configuration tasks in Web Image Monitor.

- 1. In the menu area, click [E-mail].
- 2. Make the following settings:
 - E-mail Notification E-mail Address: Enter the address using alphanumeric characters.
 - Receive E-mail Notification: Specify whether to use on-demand e-mail notification.
 - E-mail Notification User Name: Enter the administrator's user name as the mail originator name.
 - E-mail Notification Password: Enter the password of the mail notification user.
- 3. Click [OK].
- 4. Click [Logout].
- 5. Quit Web Image Monitor.

Format of on-demand e-mail messages

To use mail notification, you need to send an on-demand e-mail message to this printer.

Using your mail software, enter the following:

ltem	Description
Subject (Referred to as Subject)	Enter a request regarding the device. For details, see the table below.
From (Referred to as From)	Specify a valid mail address. The device information will be sent to the address specified here.

Subject field

Format: device status?parameter name=parameter [&=parameter] [&=parameter] ...

Subject field coding examples

Coding example	Action
devicestatus?request=sysconfig& format=text& lang=en	The device's system configuration information will be sent in an English text format.
devicestatus?request=sysconfig	The device's system configuration information will be sent in a preset format and language.

Parameters

Parameter	Meaning	Default
request	Information to be obtained	Mandatory
format	Mail format	Mail will be sent in the format preset for each mail address.
lang	Language for mail body	Mail will be sent in the language preset for each mail address.

Parameters specifying the information to be obtained

Information to be obtained	Parameter
System configuration information	sysconfig
Network configuration information	netconfig
Printer configuration information	prtconfig
Supplies information	supply

Information to be obtained	Parameter
Device status information	status

Parameters specifying the mail format

Mail format	Parameter
Text	text
HTML	html
XML	xml

Parameters specifying the language for mail body

Language for mail body	Parameter
English	en
French	fr
German	de
Italian	it
Spanish	es
Dutch	nl
Danish	da
Finnish	fi
Norwegian	no
Portuguese	pt
Swedish	SV
Czech	CS
Polish	pl
Hungarian	hu



• A mail message must be within 1 MB in size.

- E-mail may be incomplete if sent immediately after power on.
- The Subject field is case-insensitive.
- Parameter names can be written in any order.
- HTML and XML can be selected for subject field, but output is text only.

Remote Maintenance by telnet

€ Important

- Remote Maintenance should be password-protected so that access is allowed to administrators only.
- The password is the same as the one of Web Image Monitor administrator. When the password is changed using "mshell", other passwords change also.
- Some commands cannot be used depending on your printer.

Using telnet

Follow the procedure below to use telnet.



- Only one user at a time can log on to perform remote maintenance.
- 1. Use the IP address or the host name of the printer to start telnet.

% telnet "IP_address"

2. Enter your user name and password.

Contact your administrator for information about the settings.

- 3. Enter a command.
- 4. Quit telnet.

msh> logout

The configuration message about saving the changes appears.

5. Enter "yes" to save the changes, and then press the [OK] key.

If you do not want to save the changes, enter "no", and then press the [OK] key. To make further changes, enter "return" at the command line, and then press the [OK] key.



- If the message "Can not write NVRAM information" appears, the changes are not saved. Repeat the
 procedure above.
- When the changes are saved, the network interface board is reset automatically with that changes.
- When the network interface board resets, the print job in print process will be printed. However, print
 jobs in queue will be canceled.

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access

Use the "access" command to view and configure access control. You can also specify two or more access ranges.

View settings

msh> access

IPv4 configuration

msh> access [x] range "start-address end-address"

• [x] represents a target number between 1 and 5. (Up to five access ranges can be registered and selected.)

Example: to specify accessible IPv4 addresses between 192.168.0.10 and 192.168.0.20:

msh> access 1 range6 192.168.0.10 192.168.0.20

IPv6 configuration

msh> access [x] range6 "start-address end-address"

• [x] represents a target number between 1 and 5. (Up to five access ranges can be registered and selected.)

Example: to specify accessible IPv6 addresses between 2001:DB8::100 and 2001:DB8::200.

msh> access 1 range6 2001:DB8::100 2001:DB8::200

IPv6 access mask configuration

msh> access [x] mask6 "base-address prefixlen"

• [×] represents a target number between 1 and 5. (Up to five access ranges can be registered and selected.)

Example: to specify accessible IPv6 addresses to 2001:DB8::/32

msh> access 1 mask6 2001:DB8:: 32

Access control initialization

msh> access flush

 Use the "flush" command to restore the default settings so that all access ranges become "0.0.0.0" for IPv4, and ":: " for IPv6.



- The access range restricts computers from use of the printer by IP address. If you do not need to restrict printing, make the setting "0.0.0.0" for IPv4, and "::" for IPv6.
- Valid ranges must be from lower (start address) to higher (end address).
- If you are running IPv4 or IPv6, up to five access ranges can be registered and selected.
- IPv6 can register and select the range and the mask for each access ranges.
- IPv6 mask ranges between 1 128 can be selected.

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- Up to five access ranges can be specified. The entry is invalid if the target number is omitted.
- You cannot send print jobs, or access Web Image Monitor and diprint from a restricted IP address.

appletalk

Use the "appletalk" command to view and configure Apple Talk parameters.

View settings

msh> appletalk

- [2] means "active" and [0] means "inactive".
- The default is [2].

Changing PAP timeout configuration

```
msh> appletalk ptimeout value > 0
```

• Timeout value becomes effective.

msh> appletalk ptimeout value = 0

Timeout value becomes ineffective.

authfree

Use the "authfree" command to view and configure AuthFree parameters.

View settings

The following command displays the current AuthFree settings:

msh> authfree

 If print job authentication exclusion is not set, authentication exclusion control cannot be displayed.

IPv4 address settings

```
msh> authfree "ID " range_addr1 range_addr2
```

IPv6 address settings

```
msh> authfree "ID " range6_addr1 range6_addr2
```

IPv6 address mask configuration

```
msh> authfree "ID " mask6_addr1 masklen
```

Parallel/USB settings

```
msh> authfree [parallel | usb] [on|off]
```

• To enable authfree, set to on. To disable authfree, set to off. Always specify the interface.

Authentication exclusion control initialization

msh> authfree flush

autonet

Use the "autonet" command to view and configure AutoNet parameters.

View settings

The following command displays the current AutoNet settings:

msh> autonet

Configuration

You can configure AutoNet settings.

msh> autonet {on|off}

• {on} means "active" and {off} means "inactive".

Current interface priority configuration display

msh> autonet priority

Interface priority configuration

msh> autonet priority "interface_name"

- You can give interface's AutoNet parameter priority.
- Priority settings are available when multiple interfaces are installed.
- wlan can be specified only when the wireless LAN interface unit is installed.

Interface name	Interface configured
ether	Ethernet interface
wlan	Wireless LAN interface



- If an interface is not selected, the current interface connection settings remain in effect.
- For details about AutoNet, refer to autonet parameters.

bonjour

Use the "bonjour" command to display bonjour-related settings.

View settings

Bonjour settings are displayed.

msh> bonjour

Bonjour service name setting

You can specify the bonjour service name.

msh> bonjour cname "computer name"

• The computer name can be entered using up to 63 alphanumeric characters.

Bonjour Installation location information setting

You can enter information about the location where the printer is installed.

msh> boniour location "location"

• Information about location can be entered using up to 32 alphanumeric characters.

Setting order of priority for each protocol

diprint

msh> bonjour diprint [0-99]

• lpr

msh> bonjour lpr [0-99]

ipp

msh> bonjour ipp [0-99]

You can specify the order of priority for "diprint", "lpr", and "ipp". Smaller numbers indicate higher priority.

IP TTL setting

msh> bonjour ip ttl {1-255}

You can specify the IP TTL (the number of routers a packet can pass through).



• The default is 255.

Resetting the computer name and location information

You can reset the computer name and location information.

msh> bonjour clear {cname | location}

cname

Reset the computer name. The default computer name will be displayed when the computer is restarted.

location

Reset the location information. The previous location information will be deleted.

Interface configuration

msh> bonjour linklocal "interface_name"

- If many types of interface are installed, configure the interface that communicates with linklocal address.
- If you do not specify an interface, the Ethernet interface is automatically selected.
- wlan can be specified only when the wireless LAN interface unit is installed.

Interface	Interface configured
ether	Ethernet interface
wlan	Wireless LAN interface

devicename

Use the "devicename" command to display and change the printer name.

View settings

msh> devicename

Printer name configuration

msh> devicename name "string"

- Enter a printer name using up to 31 alphanumeric characters.
- Set single names for each printer.

Printer name initialization

msh> device name clearname

• Reset the printer name to its default.

dhcp

Use the "dhcp" command to configure DHCP settings.

View settings

The following command displays the current DHCP settings.

msh> dhcp

Configuration

You can configure DHCP.

msh> dhcp "interface_name" {on|off}

- Click {on} to enable DHCP. Click {off} to disable DHCP.
- If the DNS server address and domain name are obtained from DHCP, be sure to click {on}.
- wlan can be specified only when the wireless LAN interface unit is installed.

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Interface name	Interface configured
ether	Ethernet interface
wlan	Wireless LAN interface

Current interface priority configuration display

msh> dhcp priority

Interface priority configuration

msh> dhcp priority "interface_name"

- You can select which interface has DHCP parameter priority.
- Priority settings are available when multiple interfaces are installed.

DNS server address selection

msh> dhcp dnsaddr {dhcp | static}

- Specify whether to obtain the DNS server address from the DHCP server or use the address set by a user.
- To obtain the DNS server address from the DHCP server, specify "dhcp". To use the address set by a user, specify "static".

Domain name selection

msh> dhcp domainname {dhcp | static}

- Specify whether to obtain the domain name from the DNS server or use the domain name set by a user.
- To obtain the domain name from the DHCP server, specify "dhcp". To use the domain name set by a user, specify "static".

dhcp6

Use the "dhcp6" command to display or configure DHCPv6 settings.

View settings

The following command displays the current DHCPv6 settings.

msh> dhcp6

DHCPv6-lite configuration and display

msh> dhcp6 "interface_name" lite {on|off}

Viewing and specifying DNS server address selection (obtained from the dhcpv6 server/user specified value)

msh> dhcp6 dnsaddr {dhcp|static}

6

DUID(DHCP unique ID) deletion and display

msh> dhcp6 duid clear

Viewing and specifying the time required to re-obtain the parameter obtained from dhcpv6

msh> dhcp6 ooption lifetime [0-65535]

- It can be entered between 0 and 65535 minutes.
- The default is 60 minutes.
- If you specify "O", you cannot re-obtain the value.

dns

Use the "dns" command to configure or display DNS (Domain Name System) settings.

View settings

The following command displays current DNS settings:

msh> dns

IPv4 DNS server configuration

The following command enables or disables the IPv4 DNS server address:

msh> dns "number" server "server address"

The following command displays a configuration using the IP address 192.168.15.16 on a DNS 1 server:

msh> dns 1 server 192.168.15.16

- You can register IPv4 DNS Server address.
- You can register up to three IPv4 DNS server numbers.
- You cannot use "255.255.255.255" as the DNS server address.

IPv6 DNS server configuration

The following command enables or disables the IPv6 DNS server address:

msh> dns "number" server6 "server address"

- You can register IPv6 DNS Server address.
- You can register up to three IPv6 DNS server numbers.

Dynamic DNS function setting

msh> dns "interface_name" ddns {on|off}

- You can set the dynamic DNS function "active" or "inactive".
- {on} means "active" and {off} means "inactive".
- wlan can be specified only when the wireless LAN interface unit is installed.

Interface name	Interface configured
ether	Ethernet interface
wlan	Wireless LAN interface

Specifying the record overlap operation

msh> dns overlap {update|add}

- You can specify operations performed when records overlap.
- update

To delete old records and register new records.

add

To add new records and store the old records.

• When CNAME overlaps, it is always changed, irrespective of settings.

CNAME registration

msh> dns cname {on|off}

- You can specify whether to register CNAME.
- {on} means "active" and {off} means "inactive".
- The CNAME registered is the default name beginning with rnp. CNAME cannot be changed.

A records registration

msh> dns arecord {dhcp|own}

• {dhcp}

You can specify the method of registering an A record when the dynamic DNS function is enabled and DHCP is used.

• {own}

To register an A record using the printer as the DNS client.

The DNS server address and the domain name already designated are used for the registration.

Record updating interval settings

msh> dns interval "time"

- You can specify the interval after which records are updated when using the dynamic DNS function.
- The updating interval is specified hourly. It can be entered between 1 and 255 hours.
- The default is 24 hours.

domainname

Use the "domainname" command to display or configure the domain name settings.

You can configure the Ethernet interface or wireless LAN interface.

View settings

The following command displays the current domain name:

msh> domainname

Interface domain configuration

msh> domainname "interface_name"

Setting the domain name

msh> domainname "interface name" name "domain name"

- A domain name can be entered using up to 63 alphanumeric characters.
- The Ethernet interface and wireless LAN interface will have the same domain name.
- wlan can be specified only when the wireless LAN interface unit is installed.

Interface	Interface set
ether	Ethernet interface
wlan	Wireless LAN interface

Deleting the domain name

msh> domainname "interface_name" clear "name"

help

Use the "help" command to display the available command list and the procedures for using those commands.

Command list display

msh> help

Display of procedure for using commands

msh> help "command_name"

hostname

Use the "hostname" command to change the printer name.

View settings

msh> hostname

IPv4 Configuration

msh> hostname "interface_name" "printer_name"

- Enter the printer name using up to 63 alphanumeric characters.
- You cannot use a printer name starting with "RNP" or "rnp"
- The Ethernet interface and wireless LAN interface will have the same printer name.
- wlan can be specified only when the wireless LAN interface unit is installed.

Interface name	Interface configured
ether	Ethernet interface
wlan	Wireless LAN interface

Initializing the printer name for each interface

msh>hostname "interface_name" clear "name"

ifconfig

Use the "ifconfig" command to view and configure TCP/IP (IP address, subnet mask, broadcast address, default gateway address) for the printer.

View settings

msh> ifconfig

IPv4 configuration

msh> ifconfig "interface name" "parameter" "address"

- If you did not enter an interface name, it is automatically set to the Ethernet interface.
- wlan can be specified only when the wireless LAN interface unit is installed.

Interface name	Interface configured
ether	Ethernet Interface
wlan	wireless LAN Interface

The following explains how to configure an IPv4 address 192.168.15.16 on Ethernet interface.

msh> ifconfig ether 192.168.15.16

IPv6 configuration

msh> ifconfig ether inet6 "interface_name" "prefixlen"

6

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The following explains how to configure a IPv6 address to 2001:DB8::100 with prefix length 64 on the Ethernet interface.

msh> ifconfig ether inet6 2001:DB8::100 64

Netmask configuration

msh> ifconfig "interface_name" netmask "address"

The following explains how to configure a subnet mask 255.255.250 on Ethernet interface.

msh> ifconfig ether netmask 255.255.255.0

Broadcast address configuration

msh> ifconfig "interface_name" broadcast "address"

Changing the interface

msh> ifconfig "interface" up

You can specify either the Ethernet interface or wireless LAN interface when using the optional wireless LAN interface unit is installed.



- To get the above addresses, contact your administrator.
- Use the default configuration if you cannot obtain setting addresses.
- The IP address, subnet mask and broadcast address are the same as that for the ethernet interface and wireless LAN interface.
- TCP/IP configuration is the same for both Ethernet and wireless LAN interface. If interfaces are changed, the new interface inherits the configuration.
- Use "Ox" as the initial two letters of a hexadecimal address.

info

Use the "info" command to display printer information such as paper tray, output tray, and printer language.

Printer information display

msh> info

■ Reference

For details about displayed contents, see p.253 "Getting Printer Information over the Network".

ipds

Use the "ipds" command to view and configure ipds settings.

Viewing settings

The following command displays the current ipds settings:

msh> ipds

ipsec

Use the "ipsec" command to view and configure IPsec settings.

Viewing settings

The following command displays the current IPsec settings:

msh> ipsec



• For details about displayed contents, see Security Guide.

ipp

Use the "ipp" command to view and configure IPP settings.

Viewing settings

The following command displays the current IPP settings:

msh> ipp

IPP timeout configuration

Specify how many seconds the computer waits before canceling an interrupted print job. The time can be entered between 30 to 65535 seconds.

```
msh> ipp timeout [30 - 65535]
```

IPP user authorization configuration

Use IPP user authorization to restrict users to print with IPP. The default is "off".

msh> ipp auth {basic|digest|off}

- User authorization settings are "basic" and "digest".
- Use "off" to remove a user's authorization.
- If user authorization is specified, register a user name. You can register up to 10 users.

IPP user configuration

Configure IPP users according to the following messages:

msh> ipp user

The following message appears:

msh> Input user number (1 to 10):

6

6

Enter the number, user name, and password.

```
msh> IPP user name:user1
msh> IPP password:******
```

After configuring the settings, the following message appears:

User configuration changed.

ipv6

Use the "ipv6" command to display and configure IPv6 settings.

View setting

msh> ipv6

IPv6 stateless address

msh> ipv6 stateless {on|off}

lpr

Use the "lpr" command to view and configure LPR settings.

View setting

msh> 1pr

Checking host name when deleting the job

```
msh> 1pr chkhost {on|off}
```

If "on" is selected, you can delete print jobs only from the IP address of the host that sent the print job. If LPR is disabled, you can also delete print jobs sent from IP addresses other than that of the host.

Printer Error Detection Function

```
lpr prnerrchk {on|off}
```

If you set this to "on", the printer stops receiving data and will wait until the error is resolved before continuing processing a job.

netware

Use the "netware" command to configure the NetWare settings such as the print server name or file server name.

Netware printer server names

msh> netware pname "character string"

• Enter the NetWare print server name using up to 47 characters.

Netware file server names

msh> netware fname

• Enter the NetWare file server name using up to 47 characters.

Encap type

msh> netware encap {802.3|802.2|snap|ethernet2|auto}

Remote printer number

msh> netware rnum {0-254}

Timeout

msh> netware timeout {3-255}

Printer server mode

msh> netware mode pserver
msh> netware mode ps

Remote printer mode

msh> netware mode rprinter
msh> netware mode rp

NDS context name

msh> netware context "character string"

SAP interval

msh> netware "sap_interval"

Setting login mode for file server

msh> netware login server

Setting login mode for NDS tree

msh> netware login tree

Setting login mode for NDS tree name

msh> netware tree "NDS name"

File transfer protocol

msh> netware trans {ipv4pri|ipxpri|ipv4|ipx}

If you do not specify the protocol, the current setting is displayed.

Protocol	Set Protocol
ipv4pri	IPv4+IPX(IPv4)
ipxpri	IPv4+IPX(IPX)
ipv4	IPv4

Protocol	Set Protocol
ipx	IPX

nvramlog

Use the "navamlog" command to obtain NAVRAM log information.

View settings

msh> nvramlog

passwd

Use the "passwd" command to change the remote maintenance password.

Changing the password

msh> passwd

- Enter the current password.
- Enter the new password.
- Renter the new password to confirm it.

Changing the Password of the administrators using the supervisor

msh> passwd {Administrator ID}

- Enter the new password.
- Renter the new password to confirm it.



- Be sure not to forget or lose the password.
- The password can be entered using up to 32 alphanumeric characters. Passwords are case-sensitive. For example, "R" is not the same as "r".

pathmtu

Use the "pathmtu" command to display and configure the PathMTU Discovery service function.

View settings

msh> pathmtu

Configuration

msh> pathmtu {on|off}

6

- The default is "on".
- If the MTU size of the sent data is larger than the router's MTU, the router will declare it
 impassable, and communication will fail. If this happens, selecting the "pathmtu" to "off"
 optimized the MTU size and prevents data output failure.
- Depending on the environment, information might not be obtained from the router, and communication will fail. If this happens, select the "pathmtu" to "off".

prnlog

Use the "prnlog" command to obtain printer log information.

Print logs display

msh> prnlog

• Displays 16 previous print jobs.

msh> prnlog "ID Number"

 Specify the ID number of the displayed print log information to display additional details about a print job.

■ Reference

• For details about displayed contents, see p.253 "Getting Printer Information over the Network".

rhpp

Use the "rhpp" command to view and configure RHPP settings.

View settings

msh> rhpp

Changing rhpp port number

msh> rhpp [1024-65535]

• The default is 59100.

Setting timeout

msh> rhpp timeout [30-65535]

• The default is 300 seconds.



• "RHPP" is an abbreviation of "Reliable Host Printing Protocol", which is a manufacturer-original printing protocol.

route

Use the "route" command to view and control the routing table.

All route information display

msh> route get "destination"

• Specify the IPv4 address to destination.

"0.0.0.0" cannot be specified as destination address.

Enabling/disabling specified IPv4 destination

msh> route active {host|net} "destination" {on | off}

You can turn the specified destination on or off. Host becomes the default setting.

Adding IPv4 Routing Table

msh> route add {host|net} "destination" "gateway"

- Adds a host or network route to "destination", and a gateway address to "gateway" in the table.
- Specify the IPv4 address to destination and gateway.
- Host becomes the default setting.

Setting default IPv4 Gateway

msh> route add default gateway

Deleting specified IPv4 destination from Routing Table

msh> route delete {host|net} "destination"

- Host becomes the default setting.
- IPv4 address of destination can be specified.

Setting IPv6 Default Gateway

msh> route add6 default gateway

Adding a specified IPv6 destination to Routing Table

msh> route add6 "destination" "prefixlen" "gateway"

• Specify the IPv6 address to destination and gateway.

Deleting a specified IPv6 destination from Routing Table

msh> route delete6 "destination" "prefixlen"

• Specify the IPv6 address to destination and gateway.

Display information about a specified IPv6 route information

msh> route get6 "destination"

Specify the IPv6 address to destination and gateway.

Enabling/disabling a specified IPv6 destination

```
msh> route active6 "destination" "prefixlen" {on | off}
```

Route initialization

msh> route flush



- The maximum number of IPv4 routing tables is 16.
- The maximum number of IPv6 routing tables is 2.
- Set a gateway address when communicating with devices on an external network.
- The same gateway address is shared by all interfaces.
- "Prefixlen" is a number between 1 and 128.

set

Use the "set" command to set the protocol information display "active" or "inactive".

View settings

The following command displays protocol information (active/inactive).

```
msh> set ipv4
```

msh> set ipv6

msh> set appletalk

msh> set netware

msh> set smb

msh> set protocol

 When protocol is specified, information about TCP/IP, Apple Talk, Netware, SCSI print, and SMB appears.

msh> set parallel

msh> set usb

msh> set bluetooth

msh> set lpr

msh> set 1pr6

msh> set ftp

msh> set ftp6

msh> set rsh

msh> set rsh6

msh> set diprint

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```
msh> set diprint6
msh> set web
msh> set snmp
msh> set ssl
msh> set ss16
msh> set nrs
msh> set rfu
msh> set rfu6
msh> set ipp
msh> set ipp6
msh> set http
msh> set http6
msh> set bonjour
msh> set nbt
msh> set ssdp
msh> set ssh
msh> set sftp
msh> set sftp6
```

Configuration

• Enter "up" enable protocol, and enter "down" to disable protocol.

You can set the protocol to "active" or "inactive".

```
msh> set ipv4 {up | down}
```

- If you disable IPv4, you cannot use remote access after logging off. If you did this by mistake, you can use the control panel to enable remote access via IPv4.
- Disabling IPv4 also disables lpr, ftp, rsh, diprint, web, snmp, ssl, ipp, http, bonjour, and sftp.
 msh> set ipv6 {up | down}
- If you disable IPv6, you cannot use remote access after logging off. If you did this by mistake, you can use the control panel to enable remote access via IPv6.
- Disabling IPv6 also disables lpr6, ftp6, rsh6, diprint6, ssl6, ipp6, http6, and sftp6.

```
msh> set appletalk {up | down}
msh> set netware {up | down}
msh> set smb {up | down}
msh> set lpr {up | down}
msh> set lpr6 {up | down}
```

```
msh> set ftp {up | down}
msh> set ftp6 {up | down}
msh> set rsh {up | down}
msh> set rsh6 {up | down}
msh> set diprint {up | down}
msh> set diprint6 {up | down}
msh> set web {up | down}
msh> set snmp {up | down}
msh> set ssl6 {up | down}
msh> set ssl6 {up | down}
```

 If Secured Sockets Layer (SSL, an encryption protocol) function is not available for the printer, you cannot use the function by enabling it.

```
msh> set nrs {up | down}
msh> set rfu {up | down}
msh> set rfu6 {up | down}
msh> set ipp {up | down}
msh> set ipp6 {up | down}
msh> set http {up | down}
msh> set http6 {up | down}
msh> set bonjour {up | down}
msh> set ssh {up | down}
msh> set ssh {up | down}
msh> set sftp {up | down}
```

show

Use the "show" command to display network interface board configuration settings.

View settings

msh> show

• If "-p" is added, you can view settings one by one.

Reference

· For details about the information displayed, see p.262 "Understanding the Displayed Information".

slp

Use "slp" command to view and configure SLP settings.

```
msh> slp ttl "ttl_val"
```

- You can search the NetWare server using SLP in the PureIP environment of NetWare 5/5.1 and Netware 6/6.5. Using the "slp" command, you can configure the value of TTL which can be used by SLP multicast packet.
- The default value of TTL is 1. A search is executed only within a local segment. If the router does not support multicast, the settings are not available even if the TTL value is increased.
- The acceptable TTL value is between 1 and 255.

smb

Use the "smb" command to configure or delete the computer or workgroup name for SMB.

Computer Name settings

```
msh> smb comp "computer name"
```

 Set computer name using up to 15 characters. Names beginning with "RNP" or "rnp" cannot be entered.

Working Group Name settings

```
msh> smb group "work group name"
```

• Set workgroup name using up to 15 characters

Comment settings

```
msh> smb comment "comment"
```

• Set comment using up to 31 characters

Notify print job completion

```
msh> smb notif {on | off}
```

• To notify print job completion, specify "on". Otherwise, specify "off"

Deleting Computer Nam

```
msh> smb clear comp
```

Deleting Group Name

```
msh> smb clear group
```

Deleting Comment

msh> smb clear comment

View Protocol

msh> smb protocol

snmp

Use the "snmp" command to display and edit SNMP configuration settings such as the community name.

View settings

msh> snmp

• Default access settings 1 is as follows:

Community name:public

IPv4 address:0.0.0.0

IPv6 address:::

IPX address:00000000:000000000000

Access type:read-only

Effective Protocol: IPv4/IPv6/IPX

• Default access settings 2 is as follows:

Community name:admin

IPv4 address:0.0.0.0

IPv6 address:::

IPX address:00000000:000000000000

Access type:read-write

Effective Protocol: IPv4/IPv6/IPX

- If "-p" is added, you can view settings one by one.
- To display the current community, specify its registration number.

Display

msh> snmp ?

Community name configuration

msh> snmp "number" name "community_name"

- You can configure ten SNMP access settings numbered 1-10.
- The printer cannot be accessed from SmartDeviceMonitor for Admin or SmartDeviceMonitor for Client if "public" is not registered in numbers 1-10. When changing the community name, use SmartDeviceMonitor for Admin and SNMP Setup Tool to correspond with printer settings.
- The community name can be entered using up to 15 characters.

Deleting community name

msh> snmp "number" clear name

Access type configuration

msh> snmp "number" type "access_type"

Access type	Type of access permission
no	not accessible
read	read only
write	read and write
trap	user is notified of trapmessages

Protocol configuration

msh> snmp {ipv4|ipv6|ipx} {on|off}

- Use the following command to set protocols "active" or "inactive": If you set a protocol "inactive", all access settings for that protocol are disabled.
- Specify "ipv4" for IPv4, "ipv6" for IPv6, or "ipx" for IPX/SPX.
- {on} means "active" and {off} means "inactive".
- All protocols cannot be turned off concurrently.

Configuration of protocol for each registration number

msh> snmp "number" active {ipv4|ipv6|ipx} {on|off}

• To change the protocol of access settings, use the following command. However, if you have disabled a protocol with the above command, activating it here has no effect.

Access configuration

msh> snmp "number" {ipv4|ipv6|ipx} "address"

- You can configure a host address according to the protocol used.
 - The network interface board accepts requests only from hosts that have IPv4, IPv6, and IPX
 addresses with access types of "read-only" or "read-write". Enter "0" to have network interface
 board accept requests from any host without requiring a specific type of access.
- Enter a host address to deliver "trap" access type information to.
- To specify IPv4 or IPv6, enter "ipv4" or "ipv6" followed by a space, and then the IPv4 or IPv6
 address.
- To specify IPX/SPX, enter "ipx" followed by a space, the IPX address followed by a decimal, and then the MAC address of the network interface board.

sysLocation configuration

msh> snmp location

Deleting sysLocation

msh> snmp clear location

sysContact setting

msh> snmp contact

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Deleting sysContact

msh> snmp clear contact

SNMP v1v2 function configuration

msh> snmp v1v2 {on|off}

• Specify "on" to enable, and "off" to disable.

SNMP v3 function configuration

msh> snmp v3 {on|off}

• Specify "on" to enable, and "off" to disable.

SNMP TRAP configuration

 $msh > snmp trap \{v1|v2|v3\} \{on|off\}$

• Specify "on" to enable, and "off" to disable.

Remote Configuration Authorization configuration

msh> snmp remote {on|off}

• Specify "on" to enable, and "off" to disable the SNMP v1v2 setting.

SNMP v3 TRAP configuration display

msh> snmp v3trap

msh> snmp v3trap {1-5}

If a number from 1-5 is entered, settings are displayed for that number only.

Configuring a sending address for SNMP v3 TRAP

msh> snmp v3trap {1-5} {ipv4|ipv6|ipx} "address"

Configuring a sending protocol for SNMP v3 TRAP

msh> snmp v3trap {1-5} active {ipv4|ipv6|ipx} {on|off}

Configuring a user account for SNMP v3 TRAP

msh> snmp v3trap {1-5} account "account_name"

Enter an account name using up to 32 alphanumeric characters.

Deleting an SNMP v3 TRAP user account

msh> snmp v3trap {1-5} clear account

Configuring an SNMP v3 encryption algorithm

msh> snmp v3auth {md5|sha1}

Configuring SNMP v3 encryption

msh> snmp v3priv {auto|on}

Set "auto" for automatic encryption configuration

Set "on" for mandatory encryption configuration.

sntp

The printer clock can be synchronized with a NTP server clock using Simple Network Time Protocol (SNTP). Use the "sntp" command to change SNTP settings.

View settings

msh> sntp

NTP server address configuration

You can specify the IP address of the NTP server.

```
msh> sntp server "IP_address"
```

Interval configuration

msh> sntp interval "polling_time"

- You can specify the interval at which the printer synchronizes with the operator-specified NTP server. The default is 60 minutes.
- The interval can be entered from 0, or between 16 and 10,080 minutes.
- If you set 0, the printer synchronizes with the NTP server only when you turn the printer on. After that, the printer does not synchronize with the NTP server.

Time-zone configuration

msh> sntp timezone "+/-hour_time"

You can specify the time difference between the printer clock and NTP server clock. The values
are between -12:00 and +13:00.

spoolsw

Use the "spoolsw" command to view and configure Job Spool settings.

You can only specify diprint, lpr, ipp, ftp, smb and sftp protocol.

View settings

The Job Spool setting appears.

msh> spoolsw

Job Spool setting

msh> spoolsw spool {on | off}



• Specify "on" to enable Job Spool, or "off" to disable it.

Resetting Job spool setting

msh> spoolsw clear job {on | off}

When the printer power is cut during job spooling, this determines whether to reprint the spooled
job.

Protocol configuration

```
msh> spoolsw diprint {on | off}
msh> spoolsw lpr {on | off}
msh> spoolsw ipp {on | off}
msh> spoolsw smb {on | off}
msh> spoolsw ftp {on | off}
msh> spoolsw sftp {on | off}
```

• You can specify the settings for diprint, lpr, ipp, smb and sftp.

ssdp

Use the "ssdp" command to view and configure SSDP settings.

View settings

msh> ssdp

Setting effective time

```
msh> ssdp profile {1801-86400}
The default is 10800 seconds.
```

Advertise packet TTL settings

```
msh> ssdp ttl {1-255}
```

The default is 4.

ssh

Use the "ssh" command to view and configure SSH settings.

View settings

msh> ssh

Data compression communication settings

```
msh> ssh compression {on|off}
The default is "on".
```

SSH/SFTP communication port setting

```
msh> ssh port {22, 1024-65535}
```

The default is 22.

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SSH/SFTP communication timeout setting

msh> ssh timeout {0-65535}

The default is 300.

SSH/SFTP communication login timeout setting

msh> ssh logintimeout {0-65535}

The default is 300.

Setting an open key for SSH/SFTP

msh> ssh genkey {512|768|1024} "character string"

Create an open key for SSH/SFTP communication.

Usable characters are ASCII 0x20-0x7e (32 bytes) other than "0".

The default key length is 1024, and the character string is blank.

Deleting open key for ssh/sftp communication

msh> ssh delkey



• If you do not specify a character string, current setting is displayed.

status

Use the "status" command to display the printer status.

Messages

msh> status

■ Reference

• For details, see p.253 "Getting Printer Information over the Network".

syslog

Use the "syslog" command to display the information stored in the printer's system log.

View message

msh> syslog

■ Reference

• For details about the information displayed, see p.273 "Message List".

upnp

Use the "upnp" command to display and configure the universal plug and play.

Public URL display

msh> upnp url

Public URL configuration

Msh< upnp url "string"

• Enter the URL string in the character string.

web

Use the "web" command to display and configure parameters on Web Image Monitor.

View Settings

msh> web

URL Configuration

You can set URLs linked by clicking URL on Web Image Monitor.

Specify "1" or "2" for x as the number corresponding to the URL. Up to two URLs can be registered and specified.

msh> web url http://"The URL or IP address you want to register"/

Deleting URLs registered as link destinations

msh> web x clear url

Specify "1" or "2" for x as the corresponding number to the URL.

Link name configuration

You can enter the name for URL that appears on Web Image Monitor.

Specify "1" or "2" for x as the corresponding number to the link name.

msh> web name "Name you want to display"

Resetting URL names registered as link destinations

msh> web x clear name

Specify "1" or "2" for x as the number corresponding to the link name.

Help URL Configuration

You can set URLs linked by clicking [Help] or [?] on Web Image Monitor.

msh> web help http://"Help URL or IP address"/help/

Deleting Help URL

msh> web clear help

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wiconfig

Use the "wiconfig" command to make settings for wireless LAN.

View settings

msh> wiconfig

View wireless LAN settings

msh> wiconfig cardinfo

• If wireless LAN is not working correctly, its information is not displayed.

Configuration

msh> wiconfig "parameter"

Parameter	Value configured
mode {ap 802.11adhoc}	You can set infrastructure mode (ap), or 802.11 ad hoc mode (802.11adhoc).
	The default is infrastructure mode.
ssid "ID value"	You can make settings for the SSID in the infrastructure mode.
	Usable characters are ASCII 0x20-0x7e (32 bytes).
	An SSID value is set automatically to the nearest access point if no setting is made.
	If no setting is made for the ad hoc mode, the same value as for the infrastructure mode or an ASSID value is automatically set. The default is blank.
channel "channel no."	You can enable or disable the WEP function. To enable the WEP function, specify [on]; to disable it, specify [off].
	To start the WEP function, enter the correct WEP key. The default is "11".
key "key value" val {1 2 3 4}	You can specify the WEP key when entering in hexadecimal.
	With a 64-bit WEP, you can use 10 digit hexadecimals. With a 128-bit WEP, you can use 26 digit hexadecimals.

Parameter	Value configured
	Up to four WEP keys can be registered. Specify the number to be registered with "val".
	When a WEP is specified by key, the WEP specified by key phrase is overwritten.
	To use this function, set the same key number and WEP key for all ports that transmit data to each other. Put "Ox" on the front of WEP key.
	You can omit the numbers with "val". The key number is set to 1 when making these omissions. The default is blank.
keyphrase "phrase" val {1 2 3 4}	You can specify the WEP key when entering in ASCII.
	With a 64-bit WEP, you can use 10 digit hexadecimals. With a 128-bit WEP, you can use 26 digit hexadecimals.
	Up to four WEP keys can be registered. Specify the number to be registered with "val".
	When a WEP is specified by key phrase, the WEP specified by key is overwritten.
	To use this function, set the same key number and WEP key for all ports that transmit data to each other.
	You can omit the numbers with "val". The key number is set to 1 when making these omissions.
encval {1 2 3 4}	You can specify which of the four WEP keys is used for packet encoding. "1" is set if a number is not specified.
wepauth [open shared]	You can set an authorization mode when using WEP. The specified value and authorized mode are as follows:
	open: open system authorized (default)
	shared: shared key authorized rate
rate [auto 11m 5.5m 2m 1m]	You can set the wireless LAN transmitting speed.
	The speed you specify here is the speed at which data is sent. You can receive data at any speed.

Parameter	Value configured
	auto: automatically set (default)
	11m: 11 Mbps fixed
	5.5m: 5.5 Mbps fixed
	2m:2 Mbps fixed
	1m: 1 Mbps fixed
security {none wep wpa}	You can specify the security mode.
	none: No encryption(default)S
	wep: WEP encryption
	wpa: WPA encryption
wpaenc {tkip ccmp}	You can specify WPA encryption key when using WPA encryption.
	tkip: TKIP (default)
	ccmp: CCMP (AES)
wpaauth {wpapsk wpa}	You can specify the WPA authentication mode when using WPA encryption.
	wpapsk: WPA-PSK authentication(default)
	wpa: WPA(802.1X) authentication
psk "character string"	You can specify the Pre-Shared key.
	Usable characters: ASCII 0x20-0x7e (8 to 63 bytes).
	The default is blank.
eap {tls ttls leap peap} {chap mschap mschapv2 pap md5 tls}	You can specify the EAP authentication type.
	tls: EAP-TLS (default)
	#ls: EAP-TTLS
	leap: LEAP
	peap: PEAP
	chap, mschap, mschapv2, pap, md5, or tls are settings for the phase 2 method, and must be set when using EAP-TTLS or PEAP.
	Do not make these settings when using other EAP authentication types.

Parameter	Value configured
	If you select EAP-TTLS, you can select chap, mschap, mschapv2, pap, or md5.
	If you select PEAP, you can select mschapv2 or tls.
username "character string"	You can specify the login user name for the Radius server.
	Usable characters: ASCII 0x20-0x7e(31 bytes) other than "@". The default is blank.
username2 "character string"	You can specify the phase 2 username for EAP-TTLS/PEAP phase 2 authentication.
	Usable characters: ASCII 0x20-0x7e (31 bytes) other than "@". The default is blank.
domain "character string"	You can specify the login domain name for the Radius server.
	Usable characters: ASCII0x20-0x7e (31 bytes) other than "@". The default is blank.
password "character string"	You can specify the login password for the Radius server.
	Usable characters: ASCII 0x20-0x7e(128 bytes). The default is blank.
srvcert {on off}	You can set the server certificate. The default is "off".
imca {on off}	You can enable or disable the certificate when the intermediate certificate authority is present. The default is "off".
srvid "character string"	You can set the server ID and subdomain of the certificate server.



• You can use this command only when the wireless LAN interface unit is installed.

wins

Use the "wins" command to configure WINS server settings.

Viewing settings

msh> wins

If the IPv4 address obtained from DHCP differs from the WINS IPv4 address, the DHCP address
is the valid address.

Configuration

msh> wins "interface_name" {on | off}

- {on} means "active" and {off} means "inactive".
- Be sure to specify the interface.
- wlan can be specified only when the wireless LAN interface unit is installed.

Interface name	Interface configured
ether	Ethernet interface
wlan	Wireless LAN interface

Address configuration

Use the following command to configure a WINS server IP address:

msh> wins "interface_name" {primary|secondary} "IP address"

- Use the "primary" command to configure a primary WINS server IPv4 address.
- Use the "secondary" command to configure a secondary WINS server IPv4 address.
- Do not use "255.255.255.255" as the IPv4 address.

NBT (NetBIOS over TCP/IP) Scope ID Selection

You can specify the NBT scope ID.

msh> wins "interface_name" scope "scope ID"

- The scope ID can be entered using up to 31 alphanumeric characters.
- Be sure to specify the interface.
- wlan can be specified only when the wireless LAN interface unit is installed.

Interface name	Interface configured
ether	Ethernet interface
wlan	Wireless LAN interface

wsmfp

Use the "wsmfp" command to view and configure WS-MFP settings.

Viw settings

msh> wsmfp

Comment settings

msh> wsmfp comments "comment"

• If you do not specify a comment, current setting is displayed.

Location configuration

mah> wsmfp location "location"

• If you do not specify a comment, current setting is displayed.

Presentation URL configuration

msh> wsmfp url "URL"

• Ebter the URL string in the "URL".

WS-Device TCP port configuration

msh> wsmfp devport "port_number"

• The Default is 53000.

WS-Printer TCP port configuration

msh> wsmfp prnport "port_number"

• The Default is 53001.

Timeout configuration

msh> wsmfp prntimeout [30-65535]

• The default is 900 seconds.

Comment initialization

msh> wsmfp clear comments

Location initialization

msh> wsmfp clear location

Presentation URL initialization

msh> wsmfp clear url

SNMP

Using the SNMP manager, you can get information about the printer.

The SNMP agent operating on UDP and IPX is incorporated into the built-in Ethernet board and optional wireless LAN interface unit of this printer.

This printer also supports SNMPv3, which increases user authentication, data encryption, and access control security.

To encrypt communication by SNMPv3, you must specify the printer's encrypted password.



 If you changed the printer's community name, change the configuration of the connected computer accordingly, using SNMP Setup Tool. For details, see SNMP Setup Tool Help.

The default community names are [public] and [admin]. You can get MIB information using these community names.

Start SNMP Setup Tool

• Windows XP/Vista:

Click the [Start] button.

Point to [SmartDeviceMonitor for Admin] on the [All Programs] menu.

Click [SNMP Setup Tool].

Supported MIBs(SNMPv1/v2)

- MIB-II
- PrinterMIB
- HostResourceMIB
- IPv6-TCP-MIB
- IPv6-UDP-MIB
- IPv6-MIB
- IPv6-ICMP-MIB
- RicohPrivateMIB

Supported MIBs(SNMPv3)

- MIB-II
- PrinterMIB
- HostResourceMIB
- IPv6-TCP-MIB
- IPv6-UDP-MIB
- IPv6-MIB

- IPv6-ICMP-MIB
- RicohPrivateMIB
- SNMP-FRAMEWORK-MIB
- SNMP-TARGET-MIB
- SNMP-NOTIFICATION-MIB
- SNMP-USER-BASED-SM-MIB
- SNMP-VIEW-BASED-ACM-MIB

Getting Printer Information over the Network

This section explains details of each item displayed in the printer status and information.

Current Printer Status

The printer status can be checked using the following commands:

- UNIX: Use the "lpq" command and "rsh", "rcp", "ftp" and "sftp" parameters.
- mshell: Use the "status" command.

Messages	Description
Access Restricted	The job was canceled because user have no authority.
Adjusting	The printer is initializing or calibrating.
Call Service Center	There is a malfunction in the printer.
Canceled	The job is reset.
Canceling Job	The job is being reset.
Cannot multi-install: SD Card	SD card you are trying to install has already been installed in a different printer.
Card/Counter not inserted	The printer is waiting for prepaid card or key.
Coin or amount not inserted	The printer is waiting for coin to be inserted.
Coin/Key Counter not inserted	The printer is waiting for coin or key counter.
Configuring	Setting is being changed.
Cooling Down Fusing Unit	Fusing unit is cooling down.
Cover Open: Bridge Unit Left	The left cover of the Bridge Unit is open.
Cover Open: Bridge Unit Right	The right cover of the Bridge Unit is open.
Cover Open: Duplex Unit	The cover of the duplex unit is open.
Cover Open: Duplex Unit Left	The left cover of the duplex unit is open.
Cover Open: Duplex Unit Right	The right cover of the duplex unit is open.

Messages	Description
Cover Open: Finisher	The cover of Finisher is open.
Cover Open: Finisher Front	The front cover of Finisher is open.
Cover Open: Finisher Upper	The upper cover of Finisher is open.
Cover Open: Front Cover	The front cover is open.
Cover Open: LCT	The LCT cover is open.
Cover Open: Upper Right Cover	The upper right cover of the duplex unit is open.
Data Size Error	The data size error occurred.
Empty: Black Toner	The black toner cartridge is almost empty.
Energy Saver Mode	The printer is in Energy Saver Mode.
Envelope Setting Error: None	Printing paper type other than envelope is instructed when B2 lever is down.
Envelope Setting Error: Others	Printing envelope is instructed when B2 lever is down.
Error	An error has occurred.
Error: Address Book	An error has occurred in the data of the address book.
Error: Command Transmission	An error has occurred in the printer.
Error: DIMM Value	A memory error occurred.
Error: Ethernet Board	An Ethernet board error has occurred.
Error: HDD Board	A hard disk drive board error has occurred.
Error: Optional Font	An error has occurred in the font file of the printer.
Error: Optional RAM	An error has occurred in the optional memory unit.
Error: Media Link Board	An error has occurred on the media link board.
Error: Memory Switch	A memory switch error has occurred.
Error: Parallel I/F Board	An error has occurred in the parallel interface.

Messages	Description
Error: PDL	An error has occurred in the page description language.
Error: Rem. Certificate Renewal	An error has occurred in the remote certificate renewal.
Error: USB Board	An error has occurred in the USB board.
Error: USB Interface	An error has occurred in the USB interface.
Error: Wireless Board	An error has occurred in the wireless board.
Error: Wireless Card	Wireless card is not inserted during start up, or the wireless LAN interface unit or the wireless card is taken out after start up.
Exceed Stapling Limit	The printing has exceeded the stapling limit.
Full: Finisher	Finisher tray is full.
Full: Finisher Shift Tray	Shift tray of Finisher is full.
Full: Finisher Shift Tray 1, 2	The shift tray 1 and 2 of Finisher are full.
Full: Finisher Upper Tray	The upper tray of Finisher is full.
Full: Hole Punch Receptacle	Punch Chip receptacle for hole punch is full.
Full: Log Data Capacity	Log data capacity is full.
Full: Standard Tray	Standard output tray is full.
Hex Dump Mode	It is a hex dump mode.
Immed. Trans. not connected	It did not connect directly with the other party of the transmission.
Immediate Transmission Failed	An error has occurred while transmitting directly.
Immed. Trans. not connected	It did not connect directly with the other party of the transmission.
Independent-supplier Toner	Toner that is not recommended is set.
In Use: Finisher	Other functions is using Finisher.
In Use: Input Tray	Other functions is using the input tray.

Messages	Description
In Use: Staple Unit	Other functions is using the staple unit.
Jobs Suspended	All jobs are suspended.
Key Card not inserted	The printer is waiting for key card to be inserted.
Key Card/Counter not inserted	The printer is waiting for key card or key counter to be inserted.
Key Counter not inserted	The printer is waiting for key counter to be left in it.
Loading Toner	Toner is being supplied.
Log Data Transfer failed	Log transfer has failed.
Low: Black Toner	The black toner cartridge is not set correctly, or toner is almost running out.
Low: Toner	The black toner cartridge is not set correctly, or toner is almost running out.
Malfunction: Duplex Unit	There is a problem with duplex unit.
Malfunction: Finisher	There is a problem with Finisher.
Malfunction:Lower Paper Tray(s)	There is a problem with the bank motor.
Malfunction: Output Tray	There is a problem with output tray.
Malfunction: Punch Unit	There is a problem with Punch Unit.
Malfunction: Staple Unit	There is a problem with the staple unit.
Malfunction: Tray 1	There is a problem with tray 1.
Malfunction: Tray 2	There is a problem with tray 2.
Malfunction: Tray 3	There is a problem with tray 3.
Malfunction: Tray 4	There is a problem with tray 4.
Malfunction: LCT	There is a problem with the large capacity tray.
Memory Low: Data Storage	Memory shortage has occurred while the document was being accumulated.

Messages	Description
Miscellaneous Error	Other error has occurred.
Mismatch: Paper Size	Indicated paper tray does not contain paper of selected size.
Mismatch: Paper Size and Type	Indicated paper tray does not contain paper of selected size and type.
Mismatch: Paper Type	Indicated paper tray does not contain paper of selected type.
Near Replacing: Black PCU	Prepare the new black photoconductor unit.
Near Replacing: Develop. Unit K	Prepare the new development unit (black).
Near Replacing: Fusing Unit	Prepare the new fusing unit.
Near Replacing: MaintenanceKitA	Prepare new Maintenance Kit A.
Near Replacing: MaintenanceKitB	Prepare new Maintenance Kit B.
Nearly Full: Log Data Capacity	Log data capacity is nearly full.
Need more Staples	Stapler has almost run out of staples.
No Paper: LCT	There is no paper in Large Capacity tray.
No Paper: Selected Tray	There is no paper in specified tray.
No Paper: Tray 1	There is no paper in tray 1.
No Paper: Tray 2	There is no paper in tray 2.
No Paper: Tray 3	There is no paper in tray 3.
No Paper: Tray 4	There is no paper in tray 4.
Not Detected: B2 Lever	B2 lever is not correctly set.
Not Detected: Black Toner	Black toner is not correctly set.
Not Detected: Develop. Unit (K)	The development unit (black) is not correctly set.
Not Detected: Duplex Feed Unit	The duplex feed unit is not correctly set.
Not Detected: Duplex Unit	The duplex unit is not correctly set.
Not Detected: Finisher	Finisher is not correctly set.

Messages	Description
Not Detected: Fusing Unit	The fusing unit is not correctly set.
Not Detected: PCU (K)	The photoconductor unit (black) is not correctly set.
Not Detected: Input Tray	The paper feed tray is not correctly set.
Not Detected: Tray 1	Tray 1 is not correctly set.
Not Detected: Tray 2	Tray 2 is not correctly set.
Not Detected: Tray 3	Tray 3 is not correctly set.
Not Detected: Tray 4	Tray 3 is not correctly set. (LCT)
Not Detected: LCT	Tray 4 is not correctly set.
Not Reached, Data Deleted	Unreached job is deleted.
Not Reached, Data Stored	Unreached job is preserved.
Offline	Printer is offline.
Operating Thermo-range Error	Exceeded appropriate thermo range.
Panel Off Mode	The printer is in Panel-Off mode.
Paper in Duplex Unit	The paper remains in the duplex unit.
Paper in Finisher	The paper remains in Finisher.
Paper Misfeed: Duplex Unit	The paper has jammed in the duplex unit.
Paper Misfeed: Finisher	The paper has jammed in the finisher.
Paper Misfeed: Input Tray	The paper has jammed in the input tray.
Paper Misfeed: Internal/Output	The paper has jammed inside the printer.
Paper on Finisher Shift Tray 2	The paper remains in Finisher Shift Tray 2.
Paper on FinisherShiftTray 1, 2	The paper remains in Finisher Shift Tray 1 and 2.
Prepaid Card not inserted	The printer is waiting for prepaid card to be inserted.
Print Complete	The print was completed.

Messages	Description
Printing	Printing is in progress.
Processing	Data is being processed.
Proxy Address/Port Incorrect	Proxy address or Port No. is incorrect.
Proxy User/Password Incorrect	Proxy user name or Password is incorrect.
Ready	The printer is ready to print.
Renewing Remote Certificate	Remote Certificate is Renewing.
Replace Black PCU	It is time to replace the black photoconductor unit.
Replace Charger Kit	It is time to replace the charger kit.
Replace Cleaning Web	It is time to replace the Cleaning Web.
Replace Develop. Unit (Black)	It is time to replace the development unit (black).
Replace Fusing Unit	It is time to replace the fusing unit.
Replace Int. Transfer Unit	It is time to replace the transfer unit.
Replace Transfer Cleaning Unit	It is time to replace the transfer cleaning unit.
Replace Maintenance Kit A	It is time to replace Maintenance Kit A.
Replace Maintenance Kit B	It is time to replace Maintenance Kit B.
Retarding	Printing has stopped momentarily to allow printed sheets to dry.
Setting Remotely	The RDS setting is being processed.
SD Card Authentication failed	SD card authentication failed.
SD Card not inserted	SD card is not inserted correctly.
Skipped due to Error	Skipped the error.
Storage Complete	The storage is complete.
Storage Failed	The storage has failed.
Supplies Order Call failed	The supply order call has failed.

Messages	Description
Suspend/Resume Key Error	Finisher stop button was pressed.
Transmission Aborted	The transmission was interrupted.
Transmission Complete	The transmission completion was completed.
Transmission Failed	The transmission has failed.
Tray Error: Chaptering	The paper feed tray specification error has occurred because chaptering as well as the normal paper use the same tray for printing.
Tray Error: Duplex Printing	Selected paper tray cannot be used for duplex printing.
Waiting for Job Suspension	All jobs are being suspended.
Warming Up	The printer is warming up.

UNote

• For details about UNIX commands, see UNIX Supplement.

■ Reference

• Check the error contents that may be printed in the configuration page. For details about printing a configuration page, see p. 147 "List/Test Print Menu".

Printer Configuration

You can check the printer configuration using telnet.

This section explains the checking procedure for input/output tray and printer language.

- UNIX: Use the "info" command and "rsh", "rcp", "ftp" and "sftp" parameters.
- mshell: Use the "info" command.

Input Tray

ltem	Description
No.	ID number of the paper tray
Name	Name of the paper tray
PaperSize	Size of paper loaded in the paper tray

ltem	Description
status	Current status of the paper tray
	Normal: Normal
	NoInputTray: No tray
	PaperEnd: No paper

Output Tray

ltem	Description
No.	ID number of the output tray
Name	Name of the output tray
status	Current status of the output tray
	Normal: Normal
	PaperExist: Paper exist
	OverFlow: Paper is full
	Error: Other errors

Emulation

ltem	Description
No.	ID number of the printer language used by the printer
Name	Name of the printer language used in the printer
Version	Version of the printer language



• For details about UNIX commands and parameters, see UNIX Supplement.

■ Reference

• For details about mshell "info" commands, see p.216 "Remote Maintenance by telnet".

Understanding the Displayed Information

This section explains how to read status information returned by the network interface board.

Print Job Information

Use the following command to display print job information:

- UNIX: Use the "info" command and "rsh", "rcp", and "ftp" parameters.
- mshell: Use the "info" command.

ltem	Description
Rank	Print job status.
	Active
	Printing or preparing for printing.
	• 1st, 2nd, 3rd, 4th
	Waiting to be transferred to the printer.
Owner	Print request user name.
Job	Print request number.
Files	The name of the document.
Total Size	The size of the data (spooled).
	The default is 0 bytes.



• For details about UNIX commands and parameters, see UNIX Supplement.

Reference

• For details about mshell "info" commands, see p.216 "Remote Maintenance by telnet".

Print Log Information

This is a record of the most recent 16 jobs printed.

Use the following command to display print log information:

- UNIX: Use the "prnlog" command and "rsh", "rcp", and "ftp" parameters.
- telnet: Use the "prnlog" command. See "p.216 "Remote Maintenance by telnet"".

ltem	Description
ID	Print request ID.
User	Print request user name.
Page	Number of pages printed
	Print Request Result
	Communication Result
	• OK
	Print was completed normally. However, the print result may not be as required due to printer problems.
Result	• NG
	Printing was not completed normally.
	Canceled
	An "rcp", "rsh", or "lpr" command print request was canceled, possibly due to the printing application. Not applicable to the "ftp" or "rprinter" command.
Time	Time the print requested was received.
	Time of print request reception
HereID	Printer driver-configured User ID.
User ID	Appears when the print request ID is specified.
lab Nama	Name of the document for printing
JobName	Appears when the print request ID is specified.



• For details about UNIX commands and parameters, see UNIX Supplement.

■ Reference

• For details about mshell "info" commands, see p.216 "Remote Maintenance by telnet".

Configuring the Network Interface Board

Use the following command to display network interface board settings:

• telnet: Use the "show" command.

	ltem	Description
Со	mmon	
	Mode	
	Protocol Up/Down	Protocol Settings
	AppleTalk	
	IPv4	
	IPv6	
	IPsec	
	NetWare	
	SMB	
	Device Up/Down	Device Settings
	Parallel	
	USB	
	Ethernet interface	
	Syslog priority	
	NVRAM version	
	Device name	
	Comment	
	Location	
	Contact	
	Soft switch	
Ар	pleTalk	AppleTalk settings
	Mode	
	Net	
	Object	

ltem		Description
	Туре	
	Zone	
TCI	P/IP	TCP/IP settings
	Mode(IPv4)	
	Mode(IPv6)	
	ftp	
	lpr	
	rsh	
	telnet	
	diprint	
	web	
	http	
	ftpc	
	snmp	
	ірр	
	autonet	
	bonjour	
	ssl	
	nrs	
	rfu	
	nbt	
	ssdp	
	ssh	
	sftp	
	WS-Device	

	ltem	Description
	WS-Print	
	ipds	
	rhpp	
ΙΡ	v4	
	DHCP	
	Address	
	Netmask	
	Broadcast	
	Gateway	
IP	v6	
	Stateless	
	Manual	
	Gateway	
	EncapType	
	DHCPv6-lite	
	DUID	
	DHCPv6 option lifetime	
IPs	sec	
	Manual Mode	
	Excluded Protocol	
	https	
	dns	
	dhcp	
	wins	
En	псарТуре	

	ltem	Description
	Host name	
	DNS Domain	
	Access Control	Access Control settings
	IPv4	
	AccessEntry[X]	X can be set between 1 and 5.
	IPv6	
	AccessEntry[X]	X can be set between 1 and 5.
	SNTP Server	Time settings
	Time Zone	
	SNTP Server polling time	
	SYSLOG server	Websys settings
	Home page URL1	
	Home page linkname1	
	Home page URL2	
	Home page linkname2	
	Help page URL	
	IPDS Port	
	IPDS timeout	
	RHPP Port	
	RHPP timeout	
Ne	tWare	
	EncapType	
	RPRINTER number	
	Print server name	
	File server name	

		Description
	Context name	
	Switch	
	Mode	
	NDS/Bindery	
	Packet negotiation	
	Login Mode	
F	Print job timeout	
F	Protocol	
	SAP interval time	
1	NDS Tree Name	
1	Transfer Protocol	
SMB		SMB settings
	Switch	
	Mode	
	Direct print	
	Notification	
\	Workgroup name	
(Computer name	
(Comment	
	Share name[1]	
F	Protocol	
Wire	less LAN	Wireless LAN settings
H	Host Name	
	Communication Mode	
	SSID	

ltem		Description
	Channel	
	Security	
	WEP Authentication	
	WEP Encryption key number	
	WEP Encryption key number [X]	X can be set between 1 and 4.
	WPA Encryption	
	WPA Authentication	
	Pre-Shared Key	
	User name	
	Domain name	
	ЕАР Туре	
	Password	
	Phase 2 user name	
	Phase 2 Method TTLS	
	Phase 2 Method PEAP	
	Server cert.	
	IntermediateCA	
	Server ID	
	Sub domain	
	MIC check	
DN	S	DNS settings
	IPv4	
	Server[X]	X can be set between 1 and 3.
	Selected IPv4 DNS Server	
	IPv6	

ltem		ltem	Description
		Server[X]	X can be set between 1 and 3.
		Selected IPv6 DNS Server	
	Res	solver Protocol	
Do	mair	n Name	
	eth	er	
	wlc	n	
DD	NS		
	eth	er	
	wlc	n	
WI	NS		WINS settings
	eth	er	
		Primary WINS	
		Secondary WINS	
	wlc	ın	
		Primary WINS	
		Secondary WINS	
SS	DP		SSDP settings
	UU	ID	
	Pro	file	
	TTL		
UP	UPnP		UPnP settings
	URL		
Во	Bonjour		Bonjour (Redezvous) settings
	Computer Name (cname)		
	Loc	cal Hostname (ether)	

Item	Description
Local Hostname (wlan)	
Location	
Priority (diprint)	
Priority (lpr)	
Priority (ipp)	
IP TTL	
LinkLocal Route for Multil/F	
IPP Port	
SNMP	SNMP settings
SNMPv1v2	
SNMPv3	
protocol	
v1Trap	
v2Trap	
v3Trap	
SNMPv1v2 Remote Setting	
SNMPv3 Privacy	
ssh	ssh settings
Compression	
Port	
TimeOut	
Login TimeOut	
AuthFree	Authfree settings
IPv4	
AuthFreeEntry[X]	X can be set between 1 and 5.

ltem		Description
	IPv6	
	AuthFreeEntry[X]	X can be set between 1 and 5
	Parallel	
	USB	
LPR		
	lprm check host	
	lpr prnerr chk	
Се	rtificate	
	Verification	
WS-MFP		
	Network Device Name	
	Comments	
	Location	
	Presentation URL	
	WS-Device TCP Port	
	WS-Printer TCP Port	
	WS-Printer Job Timeout	
	MetadataVersion	
	UUID	
She	ell mode	Remote maintenance tool mode

Message List

This is a list of messages that appear in the printer's system log. The system log can be viewed using the "syslog" command.

System Log Information

Use the following command to display the system log information:

- UNIX: Use the "syslog" command and "rsh", "rcp", "ftp", and "sftp" parameters.
- telnet: Use the "syslog" command.

Message	Problem and solutions
account is unavailable: Same account name be used.	User account is disabled. This could be because it use the same account name as the administrator account.
account is unavailable: The authentication password is not set up.	User account is disabled. This could be because the authentication password is not set, and only the encryption account is set.
account is unavailable: encryption is impossible.	Encryption is not possible and account is disabled. This could be because:
	Security option is not installed.
	Encryption password has not been specified.
add_sess_IPv4: bad trap <ipv4 address="">, community:<community name=""></community></ipv4>	The IPv4 address (0.0.0.0.) is unavailable when the community access type is TRAP. Specify the host IPv4 address for the TRAP destination.
add_sess_IPv6: bad trap <ipv6 address="">, community:<community name=""></community></ipv6>	The IPvó address [::] is unavailable when the community access type is TRAP. Specify the host IPvó address for the TRAP destination.
add_sess_IPv4: community <community name=""> already defined.</community>	The same community name already exists. Use another community name.
add_sess_IPv6: community <community name=""> already defined.</community>	The same community name already exists. Use another community name.
adjust time server < NTP sarver> offset:XX sec.	ncsd tells you the timing of the NTP server and whether or not the time system clock is set.

Message	Problem and solutions
add_sess_IPX: bad trap <ipx address="">community <community name=""></community></ipx>	The IPX address (00:00:00:00:00) is unavailable when the community access type is TRAP. Specify the host IPX address for the TRAP destination.
add_sess_IPX: community <community name=""> already defined.</community>	The same community name already exists. Use another community name.
authenticated	The supplicant is authenticated.
authenticating	The supplicant is authenticating with the access point (EAP or WPA).
Authentication mode mismatch	The authentication mode of the access point is different from the authentication mode of the supplicant.
	Use the authentication mode between the access point and the supplicant.
Client EAP method rejected	The authentication mode of the access point is different with the authentication mode of the supplicant. Use the same authentication mode between the
Client password rejected	The client's password was rejected. Check the client password.
Client TLS certificate rejected	The client's TLS certificate was rejected. Check the certificate.
connecting	The supplicant is waiting for wireless connection to the access point.
centrod is disabled.	Communication via parallel connections unavailable because centrod is disabled in the security mode.
	Enable centrod in the security mode.
child process exec error! (process name)	The network service failed to start. Turn the printer off and then on. If this does not work, contact your service or sales representative.

Message	Problem and solutions
Client password rejected	The client's password was rejected. Check the client password.
Client tls certificate rejected	The client's TLS certificate was rejected. Check the certificate.
cipher suite mismatch	The uni-cast / multi-cast suite (TKIP/AES/WEP) of the access point is different from the suite used by the supplicant.
Connected DHCPv 6 Server(<dhcpv 6="" serveraddress="">).</dhcpv>	The IP address was successfully received from the DHCPv 6server.
Current Interface Speed: xxxMbps	Speed of the network (10Mbps, 100 Mbps, or 1Gbps).
DHCPv6 server not found.	The DHCPv6 server was not found. Make sure that the DHCPv6 is on the network.
Duplicate IP= <ip address="">(from<mac address="">).</mac></ip>	The same IP address (IPv4, or IPv6 address) was used. Each IP address (IPv4, or IPv6 address) must be unique. Check the address of the device indicated in [MAC address].
exiting	The lpd service has ended and the system is exiting the process.
IEEE 802.11 <communication mode=""> mode</communication>	Displays Wireless LAN communication mode (infrastructure, or 802.11 ad hoc).
IEEE 802.11 Card does NOT support WPA .	A wireless card that does not support WPA is installed. Install a wireless card that supports WPA.
IEEE 802.11 Card Firmware REV. <version></version>	Displays the version number of the 802.11 card's firmware.
IEEE 802.11 card removed	The wireless card managed by the supplicant has been removed.
IEEE 802.11 current channel <channel nember=""></channel>	Displays the current channel number of the active wireless card (in ad hoc and infrastructure mode).

Message	Problem and solutions
IEEE 802.11 interface down	The IEEE 802.11 interface managed by the supplicant is disabled, or cannot connect to the access point.
IEEE 802.11 interface up	The IEEE 802.11 interface managed by the supplicant is enabled, or is connected to the access point.
IEEE 802.11 MAC Address = <mac address=""></mac>	Displays the MAC address of the wireless interface.
IEEE 802.11 SSID <ssid> (AP MAC Address <mac address="">)</mac></ssid>	The MAC address and SSID of the access point are connected in infrastructure mode.
IEEE 802.11 <communication mode=""> mode</communication>	Displays IEEE 802.11 communication mode.
inetd start.	The inetd service has started.
Interface (interface name): Duplicate IP Address (IP address).	The same IP (IPv4 or IPv6) address was used. Each IP address must be unique. Check the address of the device indicated in [IP address].
< Interface > started with IP: < IP address >	IP address (IPv4, or IPv4 address) has been set for the interface and is operating.
< Interface >: Subnet overlap.	The same IP address (IPv4, or IPv6 address) and the subnet mask is used with other device.
LEAP challenge to access point failed	The LEAP challenge to the access point has failed.
IPP job canceled. jobid=%d.	The spooled job was canceled due to error or user request.
Memory allocate error.	Data cannot be obtained. Disconnect the USB cable, and then connect it.
MIC failure TKIP counter measures started	The supplicant using TKIP has detected two instances of tampering within 60 seconds and has started counter measures.
MIC failure TKIP counter measures stopped	Counter measures have stopped after 60 seconds (since the supplicant using TKIP started counter measures against tampering).
restarted.	The lpd service has started.

Message	Problem and solutions
server certificate invalid	The server ID is disabled. Check the server authentication.
server identity invalid	The server ID is disabled. Check the server authentication.
server not trusted	The RADIUS server cannot be trusted.
session IPv4 <community name=""> not defined.</community>	The requested community name is not defined.
session IPv6 <community name=""> not defined.</community>	The requested community name is not defined.
session_ipx <community name=""> not defined.</community>	The requested community name is not defined.
shutdown signal received. network service rebooting	The smbd service has started.
SMTPC: failed to get smtp server ip-address.	 The SMTP server IP address could not be obtained. This could be because: The specified DNS server could not be found. No connection to the network has been established. The specified DNS server could not be found. An incorrect DNS server is specified.
	The specified SMTP server IP address could not be found in the DNS server.
SMTPC: failed to connect smtp server. timeout.	Connection to the SMTP server failed due to timeout. This could be because the specified SMTP server name is incorrect, or no connection to the network has been established, or the network configuration is incorrect, so there is no response from the SMTP server. Check the SMTP server name, or the network connection and configuration.
SMTPC: refused connect by smtp server.	Connection to the SMTP server is denied. This could be because server other than the SMTP server has been specified, or the specified SMTP server port number is incorrect. Check the SMTP server name, port number, or the SMTP server port number.

Message	Problem and solutions
SMTPC: no smtp server. connection close.	Connection to the SMTP server failed due to no response from SMTP. This could be because a server other than the SMTP server has been specified, or the specified SMTP server port number is incorrect. Check the SMTP server name, port number, or the SMTP server port number.
SMTPC: failed to connect smtp server.	Connection to the SMTP server failed. This could be because no connection to the network has been established, or the network configuration is incorrect, so there is no response from the SMTP server, or the specified SMTP server name is incorrect, or the specified SMTP server IP address could not be found in the DNS server, or a server other than the SMTP server has been specified, or the specified SMTP server port number is incorrect. Check the DNS Server's IP address and SMTP server's IP address, or the SMTP server name and SMTP port number, or the SMTP server's SMTP port number, or the network connection and configuration.
SMTPC: username or password wasn't correct. [response code] (information)	Connection to the SMTP server failed, because the specified SMTP user name is incorrect, or the specified SMTP password is incorrect. Check the SMTP user name and password.
Snmp over IPv4 is ready	Communication over IPv4 with snmp is available.
Snmp over IPv6 is ready.	Communication over IPv6 with snmp is available.
Snmp over IPX is ready.	Communication over IPX with snmp is available.
snmpd start.	The snmpd service has started.
started.	The direct print service has started.
Started.	The bonjour (rendezvous) function is enabled.
stopped	The supplicant is terminating.
success key received	The supplicant received the EAP-Success key.

Message	Problem and solutions
success but invalid key	The supplicant received a message reporting that EAP authentication was successful, but the EAPOL key was invalid.
terminated.	The direct print service has stoped.
Terminated.	The bonjour (rendezvous) function is disabled.
There is problem in dhcp server operation.	There is a problem with the DHCP server. If multiple DHCP servers are active on the network, check that they are assigning unique IP addresses to each machine.
trap account is unavailable.	v3Trap cannot be sent. This could be because the Trap destination account is different from the account specified by the printer.
unauthenticated	The authentication failed. The supplicant was denied access to the access point, or was not authenticated.
Updated (option name) (value) via DHCPv6 Server	The parameter obtained from the DHCP server has been updated.
waiting for keys	The supplicant is waiting for the session key.
WPA supplicant started	The WPA supplicant has started.
WPA supplicant unbound	The WPA supplicant is not connected to the unbound access point.
WS-Device started.	WS-Device has started.
WS-Printer started.	WS-Printer has started.



• For details about UNIX commands and parameters, see UNIX Supplement.

■ Reference

• For details about "syslog" command, see p.216 "Remote Maintenance by telnet".

7. Using a Printer Server

Preparing Printer Server

This section explains how to configure the printer as a Windows network printer. The printer is configured to enabling network clients to use it. When the network printer is connected via SmartDeviceMonitor for Client, you can set the printing notification function to notify clients of the results of their print jobs.

Mportant (

- Under Windows XP Professional or Windows Server 2003, to change printer properties in the [Printer] folder, you need Printer Management access authentication; under Windows Vista, Full Control access authentication. Log on to the file server as an Administrator or member of the PowerUsers group.
- 1. Open the [Printers and Faxes] window from the [Start] menu.
 - The [Printers and Faxes] window appears.
- 2. Click the icon of the printer you want to use. On the [File] menu, click [Properties]. The printer properties appear.
- 3. On the [Sharing] tab, click [Share this printer].
- To share the printer with users using a different version of Windows, click [Additional Drivers...].
 - If you have installed an alternative driver by selecting [Share As:] during the printer driver installation, this step can be ignored.
- 5. Click [OK], and then close the printer properties.

Printing notification via SmartDeviceMonitor for Client

Follow the procedure below to configure the printer to use the printing notification function of SmartDeviceMonitor for Client.

Setting the print server



Under Windows XP Professional or Windows Server 2003, to change printer properties in the [Printer] folder, you need Printer Management access authentication; under Windows Vista, Full Control access authentication. Log on to the file server as an Administrator or member of the PowerUsers group.

 On the [Start] menu, point to [All Programs], [DeskTopBinder], [SmartDeviceMonitor for Client], and then click [Print Server Setting].

The print server setting dialog box appears.

Select the [Notify client PCs of printout/data-transmission] check box, and then click [OK].

After print server setting is made, a dialog box appears. Confirm the dialog box content, and click [OK].

Click [Cancel] to interrupt the procedure.

A dialog box appears for client setting.

3. Click [OK].

The print server setting is completed. Each client must be set to receive print notification.



- Current printing jobs restart from the beginning after the spooler pauses briefly.
- When the expansion function is not used, the function is automatically set as available.
- If you log on using an account that does not have Administrator privileges, the client may not be notified.



• For details, see p.206 "Using SmartDeviceMonitor for Client".

Setting a client

1. On the [Start] menu, point to [All Programs], [DeskTopBinder], [SmartDeviceMonitor for Client], and then click [Extended Features Settings].

A dialog box for setting the expansion function appears.

- 2. Select the [Notify of printout/data-transmission when using print server] check box.
- 3. Click [OK].

The client setting is completed.



 Set the printing notification function on the printer driver as well as on SmartDeviceMonitor for Client.

Using NetWare

This section describes the setting procedure for network printers in the NetWare environment. In the NetWare environment, you can connect the printer as a "print server" or "remote printer".



IPv6 cannot be used on this function.

Setting procedure

- · When using the printer as a print server
 - 1. Installing SmartDeviceMonitor for Admin
 - 2. Setting the network interface board.
 - 3. Turning the printer off and then back on.
- When using the printer as a remote printer
 - 1. Installing SmartDeviceMonitor for Admin.
 - 2. Setting the network interface board.
 - 3. Setting NetWare.
 - 4. Starting the print server.



- This procedure assumes an environment is already prepared for normal NetWare running the printing service setting.
- The procedure is explained with the following example settings:
 - File server's name ... CAREE
 - Print server's name ... PSERV
 - Printer's name ...R-PRN
 - Queue name ...R-QUEUE

Using SmartDeviceMonitor for Admin

To use the printer in a NetWare environment, use SmartDeviceMonitor for Admin to set the NetWare printing environment.

Printers listed by SmartDeviceMonitor for Admin

SmartDeviceMonitor for Admin lists printers connected to the network. If you cannot identify the printer you want to configure, print configuration page, and then check the printer name.



- The NetWare Client provided by Novell is required to set the printing environment using SmartDeviceMonitor for Admin under the following environments:
 - NDS or Bindery mode in Windows 2000/XP

For details about SmartDeviceMonitor for Admin, see "Using SmartDeviceMonitor for Admin".

Reference

• p.192 "Using SmartDeviceMonitor for Admin"

Setting Up as a Print Server (NetWare 3.x)

Follow the procedure below to connect the printer as a print server using NetWare 3.x.

- 1. Start Web Image Monitor.
- 2. Click [Login].

A dialog box for entering the login user name and password appears.

- Enter the login user name and password, and then click [Login].
 For details about the login user name and password, consult your network administrator.
- 4. Click [Configuration] in the left area, and then click [NetWare Print Settings].
 - Print Server Name: Enter the NetWare print server name. To use the interface board as a print server, enter the name of a print server that is not active on the file server. Use up to 47 characters.
 - Logon Mode: Specify whether to designate a file server or NDS tree when logging on to NetWare
 - File Server Name: When a file server name is entered here, only the specified file server is searched for. This item is mandatory. Use up to 47 characters.
 - NDS Tree: To enable NDS mode, enter the name of the NDS tree you want to log on to. Use up to 32 alphanumeric characters.
 - NDS Context Name: To enable NDS mode, enter the print server context. Use up to 127 characters.
 - Operation Mode: Specify whether to use the interface board as a print server or a remote printer.
 - Remote Printer No.: This item is effective when the interface board is specified as a remote printer.
 Enter the same number as the number of the printer to be created on the print server (0 to 254 characters).
 - Job Timeout: When the interface board is used as a NetWare remote printer, the printer cannot
 detect when a print job ends. Therefore, the printer terminates printing when a certain period of
 time has elapsed since it last received print data (i.e., when it has not received print data for a
 certain period of time). Specify here this period of time (3 to 255 seconds). The initial value is
 15 (seconds).
 - Frame Type: Select the frame type from the drop-down menu.
 - Print Server Protocol: Select the protocol for NetWare from the drop-down menu.
 - NCP Delivery Protocol: Select the protocol for NCP delivery.

Confirm the settings, and then click [Device Name].

Configuration is now complete. Wait several before restarting Web Image Monitor.

6. Click [Logout].



• To check the configuration is correct, enter the following from the command prompt:

F:> USERLIST

- If the printer works as configured, the name of the print server appears as a connected user.
- If you cannot identify the printer you want to configure, check the printer name against the
 configuration page printed from the printer. For details about printing a configuration page, see "Test
 Printing", Quick Installation Guide.
- If no printer names appear in the list, match the frame types of IPX/SPXs for the computer and printer.
 Use the [Network] dialog box of Windows to change the frame type of the computer.
- For details about Web Image Monitor, see "Using Web Image Monitor".
- For details about login user names and passwords, see Security Guide, which is the administrator's manual.



• p.185 "Using Web Image Monitor"

Setting Up as a Print Server (NetWare 4.x, 5 / 5.1, 6 / 6.5)

Follow the procedure below to connect the printer as a print server using NetWare 4.x, NetWare 5/5.1, or NetWare 6/6.5.



- When using the printer as a print server in NetWare 4.x, NetWare 5 / 5.1, or NetWare 6 / 6.5, set it to the NDS mode.
- When using NetWare 5 / 5.1 or NetWare 6 / 6.5, set the printer as a print server.
- 1. Start Web Image Monitor.
- 2. Click [Login].

A dialog box for entering the login user name and password appears.

- Enter the login user name and password, and then click [Login].
 For details about the login user name and password, consult your network administrator.
- 4. Click [Configuration] in the left area, and then click [NetWare Print Settings].
- Confirm the settings, and then click [Device Name].
 Configuration is now complete. Wait several minutes before restarting Web Image Monitor.

- 6. Click [Logout].
- 7. Quit Web Image Monitor.



To check the configuration is correct, enter the following from the command prompt:

F:> USFRIIST

- If the printer works as configured, the name of the print server appears as a connected user.
- If you cannot identify the printer you want to configure, check the printer name against the
 configuration page printed from the printer. For details about printing a configuration page, see "Test
 Printing", Quick Installation Guide.
- If no printer names appear in the list, match the frame types of IPX/SPXs for the computer and printer.

 Use the [Network] dialog box of Windows to change the frame type of the computer.
- For details about Web Image Monitor, see "Using Web Image Monitor".
- For details about login user names and passwords, see Security Guide, which is the administrator's manual.



• p.185 "Using Web Image Monitor"

Using Pure IP in the NetWare 5 / 5.1 or 6 / 6.5 Environment

Follow the procedure below to connect the printer as a print server in a pure IP environment of NetWare 5/5.1 or NetWare 6/6.5.



- When creating a queued print server in a pure IP environment of NetWare 5 / 5.1 or NetWare 6 / 6.5, create a print queue on the file server using NetWare Administrator.
- This printer is not available as a remote printer for use in a pure IP environment.
- To use the printer in a pure IP environment, set it to IPv4.

Setting up using NWadmin

- From Windows, start NWadmin.
 For details about NWadmin, see the NetWare manuals.
- 2. Select the object in which the print queue is located in the directory tree, and then click [Create] on the [Object] menu.
- 3. In the [Class of new object] box, click [Print Queue], and then click [OK].
- 4. In the [Print Queue Name] box, enter the name of the print queue.
- 5. In the [Print Queue Volume] box, click [Browse].

- In the [Available objects] box, click the volume in which the print queue is created, and then click [OK].
- 7. Check the settings, and then click [Create].
- 8. Select the object in which the printer is located, and then click [Create] on the [Object] menu.
- In the [Class of new object] box, click [Printer], and then click [OK]. For NetWare 5, click [Printer (Non NDPS)].
- 10. In the [Printer name] box, enter the printer name.
- 11. Select the [Define additional properties] check box, and then click [Create].
- 12. Click [Assignments], and then click [Add] in the [Assignments] area.
- 13. In the [Available objects] box, click the queue you created, and then click [OK].
- Click [Configuration], click [Parallel] in the [Printer type] list, and then click [Communication].
- 15. Click [Manual load] in the [Communication type] area, and then click [OK].
- 16. Check the settings, and then click [OK].
- 17. Select a context specified, and then click [Create] on the [Object] menu.
- 18. In the [Class of new object] box, click [Print Server], and then click [OK]. For NetWare 5, click [Print Sever (Non NDPS)].
- 19. In the [Print Server Name] box, enter the print server name.
 Use the same print server name specified using SmartDeviceMonitor for Admin.
- 20. Select the [Define additional properties] check box, and then click [Create].
- 21. Click [Assignments], and then click [Add] in the [Assignments] area.
- 22. In the [Available objects] box, click the queue you created, and then click [OK].
- 23. Check the settings, and then click [OK].
- 24. Start the print server by entering the following from the console of the NetWare server.

If the print server is in operation, quit and restart it.

To quit

CAREE: unload pserver

To start

CAREE: load pserver print_server_name

Setting up using Web Image Monitor

- 1. Start Web Image Monitor.
- Click [Login].

A dialog box for entering the login user name and login password appears.

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3. Enter the user login user name and password, and then click [Login].

For details about the login name and password, consult your network administrator.

- 4. Click [Configuration] in the left area, and then click [NetWare Print Settings].
- 5. Confirm the settings, and then click [Device Name].

Configuration is now complete. Wait several minutes before restarting Web Image Monitor.

- 6. Click [Logout].
- 7. Quit Web Image Monitor.



- If you cannot identify the printer you want to configure, check the printer name against the
 configuration page printed from the printer. For details about printing a configuration page, see "Test
 Printing", Quick Installation Guide.
- If no printer names appear in the list, match the frame types of IPX/SPXs for the computer and printer.
 Use the [Network] dialog box of Windows to change the frame type of the computer.
- For details about Web Image Monitor, see "Using Web Image Monitor".
- For details about login user names and passwords, see Security Guide, which is the administrator's manual.

Reference

• p.185 "Using Web Image Monitor"

Setting Up as a Remote Printer (NetWare 3.x)

Follow the procedure below to use the printer as a remote printer under NetWare 3.x.

Setting up using PCONSOLE

1. Enter "PCONSOLE" from the command prompt.

F:> PCONSOLE

2. Create a print queue.

When using the existing print queue, go to the procedure for creating a printer.

- From the [Available Options] menu, select [Print Queue Information], and then press the [Enter] key.
- 4. Press [Insert] key, and then enter a print queue name.
- 5. Press [Esc] key to return to the [Available Options] menu.
- 6. Set up the network connection to a printer.
- On the [Available Options] menu, click [Print Server Information], and then press the [Enter] key.

8. To create a new print server, press the [Insert] key, and then enter a print server name.

For a currently defined print server, select a print server in the [Print Server] list.

Use the same printer name specified using SmartDeviceMonitor for Admin.

- 9. From the [Print Server Information] menu, select [Print Server Configuration].
- 10. From the [Print Server Configuration] menu, select [Printer Configuration].
- 11. Select the printer indicated as [Not Installed].

Use the same printer number specified as the remote printer number using SmartDeviceMonitor for Admin.

12. To change the printer name, enter a new name.

A name "printer x" is assigned to the printer. The "x" stands for the number of the selected printer.

13. As type, select [Remote Parallel, LPT1].

The IRQ, Buffer size, Starting form, and Queue service mode are automatically configured.

- 14. Press the [Esc] key, and then click [Yes] on the confirmation message.
- 15. Press the [Esc] key to return to [Print Server Configuration Menu].
- 16. Assign print queues to the created printer.
- 17. From [Print Server Configuration Menu], select [Queues Serviced By Printer].
- 18. Select the printer created.
- 19. Press the [Insert] key to select a queue serviced by the printer.

You can select several queues.

20. Follow the instructions on the screen to make other necessary settings.

Following these steps, check that the queues are assigned.

- 21. Press the [Esc] key until "Exit?" appears, and then select [Yes] to exit PCONSOLE.
- 22. Start the print server by entering the following from the console of the NetWare server.

If the print server is in operation, quit and restart it.

To quit

CAREE: unload pserver

To start

CAREE: load pserver print_server_name

If the printer works as configured, the message "Waiting for job" appears.

Setting up using Web Image Monitor

- 1. Start Web Image Monitor.
- 2. Click [Login].

A dialog box for entering the login user name and login password appears.

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- 3. Enter the login user name and password, and then click [Login].
 - For details about the login user name and password, consult your network administrator.
- 4. Click [Configuration] in the left area, and then click [NetWare Print Settings].
- 5. Confirm the settings, and then click [Device Name].

Configuration is now complete. Wait several minutes before restarting Web Image Monitor.

- 6. Click [Logout].
- 7. Quit Web Image Monitor.



- If you cannot identify the printer you want to configure, check the printer name against the
 configuration page printed from the printer. For details about printing a configuration page, see "Test
 Printing", Quick Installation Guide.
- If no printer names appear in the list, match the frame types of IPX/SPXs for the computer and printer.
 Use the [Network] dialog box of Windows to change the frame type of the computer.
- For details about Web Image Monitor, see "Using Web Image Monitor".
- For details about login user names and passwords, see Security Guide, which is the administrator's manual.

Reference

• p.185 "Using Web Image Monitor"

Setting Up as a Remote Printer (NetWare 4.x, 5 / 5.1, 6 / 6.5)

Follow the procedure below to use the printer as a remote printer under NetWare 4.x, 5 / 5.1 and 6 / 6.5.

Important

- To use the printer as a remote printer under NetWare 4.x, 5 / 5.1, 6 / 6.5, set it to NDS mode.
- Do not use the printer as a remote printer when Pure IP is used.

Setting up using NWadmin

- 1. From Windows, start NWadmin.
 - For details about NWadmin, see the NetWare manuals.
- 2. Set up the network connection to a print queue. Select the object in which the print queue is located in the directory tree, and then click [Create] on the [Object] menu.
- 3. In the [Class of new object] box, click [Print Queue], and then click [OK].
- 4. In the [Print Queue Name] box, enter the name of the print queue.
- 5. In the [Print Queue Volume] box, click [Browse].

- In the [Available objects] box, click the volume in which the print queue is created, and then click [OK].
- 7. Check the settings, and then click [Create].
- 8. Set up the network connection to a printer. Select the object in which the printer is located, and then click [Create] on the [Object] menu.
- 9. In the [Class of new object] box, click [Printer], and then click [OK]. For NetWare 5, click [Printer (Non NDPS)].
- 10. In the [Printer name] box, enter the printer name
- 11. Select the [Define additional properties] check box, and then click [Create].
- Assign print queues to the created printer. Click [Assignments, and then click [Add] in the [Assignments] area.
- 13. In the [Available objects] box, click the queue you created, and then click [OK].
- 14. Click [Configuration], click [Parallel] in the [Printer type] list, and then click [Communication].
- 15. Click [Manual load] in the [Communication type] area, and then click [OK]. Check the settings, and then click [OK].
- 16. Set up the network connection to a print server. Select a context specified, and then click [Create] on the [Object] menu.
- 17. In the [Class of new object] box, click [Print Server], and then click [OK]. For NetWare 5, click [Print Sever (Non NDPS)].
- 18. In the [Print Server Name:] box, enter the print server name.
 Use the same print server name specified using SmartDeviceMonitor for Admin.
- Select the [Define additional properties] check box, and then click [Create].
- 20. Assign the printer to the created print server. Click [Assignments], and then click [Add] in the [Assignments] area.
- 21. In the [Available objects] box, click the queue you created, and then click [OK].
- 22. In the [Printers] area, click the printer you assigned, and then click [Printer Number].
- 23. Enter the printer number, and then click [OK]. Check the settings, and then click [OK].

 Use the same printer number specified as the remote printer number using SmartDeviceMonitor for Admin.
- 24. Start the print server by entering the following from the console of the NetWare server.

 If the print server is in operation, quit and restart it.

To exit

CAREE: unload pserver

To start

CAREE: load pserver print_server_name

- 25. Enter the printer server name as the context name, and then press the [Enter] key.
- 26. Select the printer name on the context menu, and then press the [Enter] key.

Setting up using Web Image Monitor

- 1. Start Web Image Monitor.
- 2. Click [Login].

A dialog box for entering the login user name and login password appears.

- Enter the user login name and password, and then click [Login].
 For details about the login user name and password, consult your network administrator.
- 4. Click [Configuration] in the left area, and then click [NetWare Print Settings].
- Confirm the settings, and then click [Device Name].
 Configuration is now complete. Wait several minutes before restarting Web Image Monitor.
- 6. Click [Logout].
- 7. Quit Web Image Monitor.



- If you cannot identify the printer you want to configure, check the printer name against the
 configuration page printed from the printer. For details about printing a configuration page, see "Test
 Printing", Quick Installation Guide.
- If no printer names appear in the list, match the frame types of IPX/SPXs for the computer and printer.

 Use the [Network] dialog box of Windows to change the frame type of the computer.
- For details about Web Image Monitor, see "Using Web Image Monitor".
- For details about login user names and passwords, see Security Guide, which is the administrator's manual.

Reference

• p.185 "Using Web Image Monitor"

8. Mac OS Configuration

Mac OS

This section explains how to configure a Mac OS to use EtherTalk and USB.

The following explains how to configure Mac OS 9.1. If you are not using Mac OS 9.1, see the manual of the Mac OS you are using for details.



For Mac OS 8.6 and higher. (Mac OS X Classic environment is supported.)



The PostScript 3 printer driver is stored in "Mac OS 8 and 9:PS Driver:(language):Disk1" on the CD-ROM.

Installing the PostScript 3 Printer Driver and PPD File

It is necessary to install a printer driver and PostScript Printer Description (PPD) files to print from a Mac OS.

Follow the procedure below to install a printer driver and a PPD file into a Mac OS using Mac OS 8.6 and higher.

PostScript 3 Printer Driver

- 1. Insert the CD-ROM into the CD-ROM drive.
- 2. Double-click the CD-ROM drive icon.
- 3. Double-click the [Mac OS 8 and 9] folder.
- 4. Double-click the [PS Driver] folder.
- 5. Double-click the folder of the language you use.
- 6. Open [Disk1], and then double-click the installer icon.
- 7. Follow the instructions on the screen.

PPD Files

- 1. Double-click the CD-ROM drive icon.
- 2. Double-click the [Mac OS 8 and 9] folder.
- 3. Double-click the [Printer Descriptions] folder.
- 4. Double-click the folder of the language you use.
- 5. Open the [Disk1] folder.

7. Restart the Mac OS.

Setting Up PPD Files



- Make sure that the printers are connected to an Apple Talk network before performing the following procedure.
- 1. On the [Apple] menu, click [Chooser].
- 2. Click the Adobe PS icon.
- 3. In the [Select a PostScript Printer:] list, click the name of the printer you want to use.
- 4. Click [Create].
- 5. Click the printer you want to use, and then click [Select].
- 6. A PPD file is set up and the Adobe PS icon appears at the left of the printer name in the list.

Creating a Desktop Printer Icon

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Make sure that printers are connected to the USB before performing the following procedure.

To use a printer connected by USB, create a desktop printer icon.

- 1. Double-click [Desktop Printer Utility] in the [AdobePS Components] folder.
- 2. Click [AdobePS] in [With], click [Printer (USB) in] Create Desktop, and then click [OK].
- 3. Click [Change] in [USB Printer Selection].
- 4. Select the model you are using in [Select a USB Printer:], and then click [OK].
- Click [Create].
- 6. Enter the printer name, and then click [Save].
- 7. Quit Desktop Printer Utility.

Setting Up Options

- 1. On the [Apple] menu, click [Chooser].
- 2. Click the Adobe PS icon.

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- 3. In the [Select the PostScript Printer:] list, click the name of the printer you want to use, and then click [Setup...].
- 4. Click [Configure].

A list of options appears.

- 5. Select the option you want to set up, and then select an appropriate setting for it.
- 6. Click [OK].

The list of options closes.

7. Click [OK].

The [Chooser] dialog box appears.

8. Close the [Chooser] dialog box.



• 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.

Installing Adobe Type Manager



- Quit all applications currently running before installation. Install ATM after you restart the computer.
- 1. Start a Mac OS.
- 2. Insert the CD-ROM into the CD-ROM drive.
- 3. Double-click the CD-ROM drive con.
- 4. Double-click the [Mac OS 8 and 9] folder.
- 5. Double-click the [ATM folder].
- 6. Double-click the ATM 4.6.2 installer icon.
- 7. Follow the instructions on the screen.
- 8. When the procedure is complete, restart the computer. ATM will be completely installed only after restarting.
- 9. On the [Apple] menu, open [Control Panel], and then click [~ATM].

The ATM control panel opens.



For details about installation, see the operating instructions in the ATM folder.

Installing Screen Fonts

Follow the procedure below to install screen fonts.

The screen fonts described below can be found in the [Fonts] folder on the CD-ROM.

- 1. Start a Mac OS.
- 2. Insert the CD-ROM into the CD-ROM drive.

The CD-ROM drive icon appears.

3. Double-click the CD-ROM drive icon.

The contents of the CD-ROM appear.

- 4. Double-click the [Mac OS 8 and 9] folder.
- 5. Double-click the [Fonts] folder.
- 6. Double-click the [ScreenFonts] folder.
- 7. Double-click the [TrueType] or Type1 folder.

Select the font type you want to use.

- 8. Copy the fonts you want to install in Fonts under [System Folder].
- 9. A confirmation message appears.
- 10. Click [OK].

The fonts are installed.

11. Restart the Mac OS.

Changing to EtherTalk

Follow the procedure below to configure to a Mac OS to use EtherTalk.

- 1. Open [Control Panel], and then double-click the Apple Talk icon.
- 2. On the [Connect via:] pop-up menu, click [Ethernet].
- 3. If you change zones, select a name on the [OK] pop-up menu.
- 4. Close the Apple Talk control panel.
- 5. Restart the computer.



- The procedures used to configure Mac OS may vary depending on the Mac OS version. The
 following describes how to configure Mac OS 9.1. If you are using a different version of Mac
 OS, use the following procedures as a reference and see the manuals for your Mac OS version.
- Confirm the Connection to the Printer with TCP/IP.
- For information about installing applications required for EtherTalk, see the Mac OS manuals.

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Mac OS X

This section explains how to configure a Mac OS X to use EtherTalk and USB.

Follow the procedure below to configure Mac OS X 10.1. If you are not using Mac OS X 10.1, see the manual of the Mac OS X you are using for details.



• For Mac OS X 10.1 or higher.



• The PPD files are stored in "Mac OS X:PPD Installer" on the CD-ROM.

Installing the PPD Files

Follow the procedure below to install a PPD file to print from Mac OS X.

- You need an administrator name and a password (phrase). For details, consult your administrator.
- 1. Insert the CD-ROM into the CD-ROM drive.
- 2. Double-click the CD-ROM drive icon.
- 3. Double-click the [Mac OS X] folder.
- 4. Double-click the [MacOSX PPD Installer] folder.
- 5. Double-click the installer icon.
- 6. Follow the instructions on the screen.

Setting Up the PPD File

- 1. Start Printer Setup Utility.
- 2. Click [Add].

Mac OS X 10.4 or later

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.

3. Select the printer, and then select its manufacturer from the [Printer Model:] pop-up menu.

Under Mac OS X 10.4 or later, select the printer you are using from the [Print Using] popup menu.

A list of printer types appears.

- 4. Select the PPD file for the model you are using, and then click [Add].
- 5. Quit Printer Setup Utility.

Setting Up Options

- 1. Start System Preferences.
- 2. Click [Print & Fax].
- In the [Printer] list, click the name of the printer you want to use, and then click [Printer Setup...].
- 4. Select the option you want to set up, and then select an appropriate setting for it.
- 5. Click [Apply Changes].



• 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.

Using USB Interface

Follow the procedure below to setup USB connection.

- 1. Start Printer Setup Utility.
- 2. Click [Add].

Mac OS X 10.4 or later

Click a printer that has "USB" indicated in the "Connection" column.

Other Mac OS X

Click [USB] on the pop-up menu.

The connected printer appears.

3. Select the printer, and then select its manufacturer from the [Printer Model:] pop-up menu.

Under Mac OS X 10.4 or later, you are using from the [Print Using] pop-up menu.

A list of printer types appears.

4. Select the connected printer from the list of printer models, and then click [Add].

5. Quit Printer Setup Utility.



- When printing with a USB connection to a Macintosh computer, printer language does not change automatically. Use the control panel on this printer to change printer language to [Auto Detect] or [PS] before printing.
- USB2.0 can be used only with Mac OS X 10.3.3 or higher.

Using Bonjour

Follow the procedure below to print using Bonjour under Mac OS X 10.2.3 or higher. Ethernet, wireless LAN connections can also be used.

- 1. Start Printer Setup Utility.
- 2. Click [Add].

Mac OS X 10.4 or later

Click a printer that has "Bonjour" indicated in the "Connection" column.

Other Mac OS X

Click [Rendezvous] on the pop-up menu.

- 3. Select the name of the connected printer from the list of printer models, and then click [Add].

 Under Mac OS X 10.4 or later, Installable Options window appears. Select the option you want to set up, and then select an appropriate setting for it, and then [Continue].
- 4. Quit Printer Setup Utility.

When printing with a Rendezvous connection to a Macintosh computer, printer language does not change automatically. Use the control panel on this printer to change printer language to [Auto Detect] or [PS] before printing.

Changing to EtherTalk

Follow the procedure below to configure a Mac OS X to use EtherTalk.



- You need an administrator name and a password (phrase). For details, consult your administrator
- 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 Apple Talk zones, select a name from the [Apple Talk Zone:] pop-up menu.
- 6. When the settings are made, click [Apply Now].

Quit [System Preference].



• For information about installing applications required for EtherTalk, see the Mac OS manuals.

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Configuring the Printer

Use the control panel to enable Apple Talk. (The default is active.)

Using PostScript 3

Job Type

Use this to select the type of print job.

The following table shows the tabs or menus where you can select this function.

Mac OS	[Job Type:] on [Job Log] in the print dialog box.
Mac OS X	[Job Type:] on [Job Log] in the print dialog box.

You can select the following items:

Normal Print

Select this for normal printing. The print job starts immediately after the print command is given.

Sample Print

Use this function to print only one set of a multiple print jobs.

The other sets are saved in the printer. The saved job can be printed from the printer's control panel. You can also delete the saved job.



- The "User ID:" can contain up to eight alphanumeric (a- z, A- Z, 0- 9) characters.
- Entering the "User ID:" helps you distinguish your print job from others.

Locked Print

Use this function to save documents in the printer memory with a password, and then edit and print them as you want.



- The "User ID:" can contain to eight alphanumeric (a-z, A-Z, 0-9) characters. The "Password" must be 4-8 digits.
- Entering the "User ID:" helps you distinguish your print job from others.

Hold Print

Use this function to temporarily hold a file in the printer, and print it from the computer or the printer's control panel later.



- The "User ID:" can contain up to eight alphanumeric (a- z, A- Z, 0- 9) characters.
- The "File Name:" can contain to 16 alphanumeric (a-z, A-Z, 0-9) characters.
- Entering the "User ID:" helps you distinguish your print job from others.

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Stored Print

Use this function to store a file in the printer, and then print it from the computer or the printer's control panel later.



- The "User ID:" can contain up to eight alphanumeric (a- z, A- Z, 0- 9) characters. The "Password" must be 4-8 digits.
- The "File Name:" can contain to 16 alphanumeric (a-z, A-Z, 0-9) characters.
- You can assign a password to a saved document, but password assignment is not mandatory.
- Entering the "User ID:" helps you distinguish your print job from others.

Store and Print

Use this function to prints the file at once and also stores the file in the printer.



- The "User ID:" can contain up to eight alphanumeric (a- z, A- Z, 0- 9) characters. The "Password" must be 4-8 digits.
- The "File Name:" can contain to 16 alphanumeric (a-z, A-Z, 0-9) characters.
- You can assign a password to a saved document, but password assignment is not mandatory.
- Entering the "User ID:" helps you distinguish your print job from others.

Using sample print



- You need Mac OS X v10.2 or higher to use this function.
- The number of pages the printer can save varies depending on the contents of the print images. At
 most, the printer can save 100 jobs or 9,000 pages for Sample Print, Locked Print, Hold Print and
 Stored Print.
- Sample Print files will not appear on the display panel if they have already been executed or deleted
 using the Web browser before you select [Sample Print] from the control panel.
- Sample Print files printed or deleted using Web Image Monitor after you select [Sample Print] using
 the control panel will appear on the display panel. However, an error message will appear if you try
 to print or delete those Sample Print files.
- If the application has a collate option, make sure that it is not selected before sending a print job. By
 default, sample print jobs are automatically collated by the printer driver. If the collate option is
 selected in the application print dialog box, more prints than intended may be printed.
- Print jobs are not saved on the hard disk in the following cases. You can check the error log for jobs not saved.

- When there are 100 Sample Print, Locked Print, Hold Print and Stored Print jobs saved on the hard disk.
- When the total number of pages saved on the hard disk exceeds 9,000 pages.
- 1. In the application, on the [File] menu, click [Print].

The [Print] dialog box appears.

2. Set the number of copies to two or more.

The sample print job is sent to the printer, and one set is printed.

- 3. In the pop-up menu, click [Job Log].
- 4. On the [Job Type:] pop-up menu, select [Sample Print].
- In the [User ID:] box, enter a user ID using up to eight alphanumeric (a-z, A-Z, 0-9) characters.

The user ID associates the user with his/her jobs.

6. Check the printed output to make sure the settings are correct.

If the settings are correct, perform the following steps to print the remaining sets.

If you want to delete a saved job, see "Sample Print".

- 7. On the printer's control panel, press [Prt.Jobs].
- 8. Select [Sample Print Jobs], and then press [Job List].

A list of sample print files stored in the printer appears.

User ID, Date/Time and File Name also appear.

9. Select the file you want to print by pressing it.

A list of print files stored in the printer appears.

- 10. Press [Print] to change the number of sets to be printed.
- 11. Enter the new number of sets using the number keys.

If you do not want to change the set quantity, perform the following steps.

You can enter up to 999 sets.

Press [Escape] to correct any entry mistakes.

12. Press [Print].

The remaining sets are printed.



- Press [Cancel] to cancel printing.
- When printing finishes, the stored file is deleted.
- To stop printing after printing has started, press [JobReset]. The file will be deleted.
- If there is a print job outstanding, this is printed before the sample print job.

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■ Reference

• p.87 "Sample Print"

Deleting a Sample Print File

1. Press [Prt.Jobs].

A list of print files stored in the printer appears.

2. Select [Sample Print Jobs], and then press [Job List].

A list of sample print files stored in the printer appears.

3. Select the file you want to delete by pressing it.

To cancel a selection, press the highlighted jobs again.

Only one file can be selected at a time.

4. Press [Delete].

A confirmation screen appears.

5. Press [Delete] to delete the file.

After the file is deleted, the printer screen reappears.



• Press [Cancel] to cancel the delete request.

Using locked print



- You need Mac OS X v10.2 or higher to use this function.
- The number of pages the printer can save varies depending on the contents of the print images. At
 most, the printer can save 100 jobs or 9,000 pages for Sample Print, Locked Print and Hold Print.
- Locked Print files will not appear on the display panel if they have already been printed or deleted using Web Image Monitor before you select [Locked Print] using the control panel.
- Locked Print files printed or deleted using Web Image Monitor after you have selected [Locked Print]
 using the control panel will still appear on the display panel. However, an error message will appear
 if you try to print or delete those Locked Print files.
- If the application has a collate option, make sure that it is not selected before sending a print job. By
 default, locked print jobs are automatically collated by the printer driver. If the collate option is selected
 in the application print dialog box, more prints than intended may be printed.
- Print jobs are not saved on the hard disk in the following cases. You can check the error log for jobs not saved.
 - When there are 100 Sample Print, Locked Print, Hold Print and Stored Print jobs saved on the hard disk.

1. In the application, click [Print] on the [File] menu.

The [Print] dialog box appears.

- 2. In the pop-up menu, click [Job Log].
- 3. On the [Job Type:] pop-up menu, click [Locked Print].
- 4. In the [User ID:] box, enter a user ID using up to eight alphanumeric (a-z, A-Z, 0-9) characters, and then enter a 4-8 digit password in the [Password:] box.

The user ID associates the user with his/her jobs.

5. After making the necessary settings, click [Print].

The document file is saved in the printer.

To print the document, perform the following steps.

To delete the document, see "Locked Print".

- 6. On the printer's control panel, press [Prt.Jobs].
- 7. Select [Locked Print Jobs], and then press [Job List].

A list of locked print files stored in the printer appears.

User ID, Date/Time and File Name also appear.

8. Select the file you want to print by pressing it.

A list of print files stored in the printer appears.

9. Press [Print].

The password screen appears.

10. Enter the password using the scroll keys, and then press [OK].

A confirmation screen appears.

A confirmation screen will appear if the password is not entered correctly. Press [OK] to enter the password again.

11. Press [Print].

The locked file is printed.



- Press [Cancel] to cancel printing.
- When printing finishes, the stored file is deleted.
- To stop printing after printing has started, press [JobReset]. The file will be deleted.

Reference

• p.90 "Locked Print"

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Deleting a Locked Print File

1. Press [Prt.Jobs].

A list of print files stored in the printer appears.

2. Select [Locked Print Jobs], and then press [Job List].

A list of locked print files stored in the printer appears.

3. Select the file you want to delete by pressing it.

To cancel a selection, press the highlighted jobs again.

Only one file can be selected at a time.

4. Press [Delete].

A password screen appears.

5. Enter the password using the scroll keys, and then press [OK].

A confirmation screen appears.

A confirmation screen will appear if the password is not entered correctly. Press [Clear] to enter the password again.

When multiple files are selected, the printer deletes only files that correspond to the entered password. The number of files to be deleted is displayed on the confirmation screen.

6. Press [Delete].

After the file is deleted, the printer screen reappears.



• Press [Cancel] to cancel the delete request.

Using hold print



- You need Mac OS X v10.2 or higher to use this function.
- The number of pages the printer can save varies depending on the contents of the print images. At
 most, the printer can save 100 jobs or 9,000 pages for Sample Print, Locked Print and Hold Print.
- Hold Print files will not appear on the display panel if they have already been printed or deleted using Web Image Monitor before you select [Hold Print] using the control panel.
- Hold Print files printed or deleted using Web Image Monitor after you have selected [Hold Print] using
 the control panel will still appear on the display panel. However, an error message will appear if you
 try to print or delete those Hold Print files.
- If the application has a collate option, make sure that it is not selected before sending a print job. By default, Hold print jobs are automatically collated by the printer driver. If the collate option is selected in the application print dialog box, more prints than intended may be printed.

- Print jobs are not saved on the hard disk in the following cases. You can check the error log for jobs not saved.
 - When there are 100 Sample Print, Locked Print, Hold Print and Stored Print jobs saved on the hard disk.
 - When the total number of pages saved on the hard disk exceeds 9,000 pages.
- 1. In the application, click [Print] on the [File] menu.

The [Print] dialog box appears.

- 2. In the pop-up menu, click [Job Log].
- 3. On the [Job Type:] pop-up menu, click [Hold Print].
- In the [User ID:] box, enter a user ID using up to eight alphanumeric (a-z, A-Z, 0-9) characters. File Name can also be set.

The user ID associates the user with his/her jobs.

5. After making the necessary settings, click [Print].

The document file is saved in the printer.

To print the document, perform the following steps.

To delete the document, see "Hold Print".

1. On the printer's control panel, press [Prt.Jobs].

A list of print files stored in the printer appears.

2. Select [Hold Print Jobs], and then press [Job List].

A list of hold print files stored in the printer appears.

User ID, Date/Time and File Name also appear.

- 3. Select the file you want to print by pressing it.
- 4. Press [Print].

The hold print file is printed.



- Press [Cancel] to cancel printing.
- To stop printing after printing has started, press [Job Reset]. The file will be deleted.
- When printing is completed, the stored file is deleted.

■ Reference

• p.93 "Hold Print"

Deleting a Hold Print File

1. Press [Prt.Jobs].

A list of print files stored in the printer appears.

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2. Select [Hold Print Jobs], and then press [Job List].

A list of hold print files stored in the printer appears.

Depending on the security settings, certain print jobs may not be displayed.

3. Select the file you want to delete by pressing it.

To cancel a selection, press the highlighted job again.

Only one file can be selected at a time.

4. Press [Delete].

A confirmation screen appears.

5. Press [Delete].

After the file is deleted, the printer screen reappears.



• Press [Cancel] to cancel the delete request.

Using stored print



- You need Mac OS X v10.2 or higher to use this function.
- Stored Print files will not appear on the display panel if they have already been printed or deleted using Web Image Monitor before you select [Stored Print] using the control panel.
- Stored Print files printed or deleted using Web Image Monitor after you have selected [Stored Print] using the control panel will still appear on the display panel. However, an error message will appear if you try to print or delete those Stored Print files.
- If the application has a collate option, make sure that it is not selected before sending a print job. By
 default, Stored print jobs are automatically collated by the printer driver. If the collate option is selected
 in the application print dialog box, more prints than intended may be printed.
- Print jobs are not saved on the hard disk in the following cases. You can check the error log for jobs not saved.
 - When there are 100 Sample Print, Locked Print, Hold Print and Stored Print jobs saved on the hard disk.
 - When the total number of pages saved on the hard disk exceeds 9,000 pages.
- 1. In the application, click [Print] on the [File] menu.

The [Print] dialog box appears.

- 2. In the pop-up menu, click [Job Log].
- On the [Job Type:] pop-up menu, click [Stored Print] or [Store and Print].
 - [Stored Print]

Stores the file in the printer and print it later using the control panel.

• [Store and Print]

Prints the file at once and also stores the file in the printer.

4. In the [User ID:] box, enter a user ID using up to eight alphanumeric (a-z, A-Z, 0-9) characters, and then enter a 4-8 digit password in the [Password:] box. File Name can also be set.

The user ID associates the user with his/her jobs.

You can assign a password to a saved document, but password assignment is not mandatory.

The password must be entered when printing or deleting.

5. After making the necessary settings, click [Print].

The document file is saved in the printer.

To print the document, perform the following steps.

To delete the document, see "Stored Print".

1. On the printer's control panel, press [Prt.Jobs].

A list of print files stored in the printer appears.

2. Select [Stored Print Jobs], and then press [Job List].

A list of Stored Print files stored in the printer appears.

User ID, Date/Time and File Name also appear.

Depending on the security settings, certain print jobs may not be displayed.

- 3. Select the file you want to print by pressing it.
- 4. Press [Print].

A confirmation screen appears.

If you have already set a password, proceed to the following step.

5. Enter the password using the scroll keys, and then press [OK].

A confirmation screen appears.

A confirmation screen will appear if the password is not entered correctly. Press [OK] to enter the password again.

If you have not set the password, proceed to the following step.

6. Press [Print].

The Stored Print file is printed.



- Press [Cancel] to cancel printing.
- Stored Print files sent to the printer is not deleted unless you delete them in the printer, or enable automatic deletion of Stored Print files.

Q

■ Reference

• p.96 "Stored Print"

Deleting a Stored Print File

1. Press [Prt.Jobs].

A list of print files stored in the printer appears.

2. Select [Stored Print Jobs], and then press [Job List].

A list of Stored Print files stored in the printer appears.

- 3. Select the file you want to delete by pressing it.
- 4. Press [Delete].

A confirmation screen appears.

5. Enter the password using the scroll keys, and then press [OK].

A confirmation screen appears.

A confirmation screen will appear if the password is not entered correctly. Press [OK] to enter the password again.

6. Press [Delete].

After the file is deleted, the printer screen reappears.



- Press [Cancel] to cancel the delete request.
- If you have already set a password in the printer driver, enter it to delete.

User Code

Use this to set a user code for print logging.

Enter a user code using up to eight digits. A user code identifies a group of users and allows you to check the number of sheets printed under each code with SmartDeviceMonitor for Admin.

The following table shows the tabs or menus where you can select this function.

Mac OS	Select the [Enable User Code] check box, and then enter a user code in the [User Code] box on [Job Log] in the print dialog box.
Mac OS X	Select the [Enable User Code] check box, and then enter a user code in the [User Code] box on [Job Log] in the print dialog box.

Use this to select the size of paper you want to use.

The following table shows the tabs or menus where you can select this function.

Mac OS	[Paper:] on the [Page Attributes] tab in the Page Setup dialog box.
Mac OS X	[Paper Size:] in the Page Setup dialog box.



• For details about the paper sizes supported by this printer, see Hardware Guide.

Fit to Paper

When the size of the document and paper size differ, set whether or not to print according to paper size.

Mac OS	[Fit to Paper] on [Printer Specific Options] in the print dialog box.
Mac OS X	[Fit to Paper] on the [Features x] tab on [Printer Features] in the print dialog box.

Prompt User

Print is performed with the size of document to be printed unchanged.

Nearest Size and Scale

If the paper size is smaller than the selected paper size, the driver reduces the print size.

If the paper size is larger than the size of document to be printed, print is not to fit the paper size.

Nearest Size and Crop

When the paper size is smaller than the size of document to be printed, print is adjusted to meet the paper size.

Input Slot

Use this to select the paper sources.

The following table shows the tabs or menus where you can select this function.

Mac OS	[Paper Source:] on [General] in the print dialog box.
Mac OS X	[Paper Feed] in the print dialog box.



• For details about the paper sources, see Hardware Guide.

Resolution

Use this to set the resolution types.

The following table shows the tabs or menus where you can select this function.

Mac OS	[Resolution] on [Printer Specific Options] in the print dialog box.
Mac OS X	[Resolution] on the [Features x] tab on [Printer Features] in the print dialog box.



• For more information about the resolution types, see Hardware Guide.

Orientation Override

Use this to set the paper orientation.

The following table shows the tabs or menus where you can select this function.

Mac OS	[Orientation Override] on [Printer Specific Options] in the print dialog box.
Mac OS X	[Orientation Override] on the [Feature Sets: X] tab on [Printer Features] in the print dialog box.

You can select the following items:

- Off
- Landscape
- Portrait

Duplex Printing

Use this function to select duplex printing.

The following table shows the tabs or menus where you can select this function.

Mac OS	[Print on Both Sides] on [Layout] in the print dialog box.
Mac OS X	• 10.3 or higher
	The [Two Sided Printing] check box on [Layout] in the print dialog box.
	Other Mac OS X
	The [Print on both Sides] check box on [Duplex] in the print dialog box.

None

Disables duplex printing.

Flip on Long Edge

Prints so you can open it to the long edge when bound along the long edge.

Flip on Short Edge

Prints so you can open it to the short edge when bound along the short edge.

Collate

Use this function to enable collation. With this feature, the printer can efficiently print collated sets of multiple-page documents.

Important

- Make sure that the following check boxes have not been selected.
 - Mac OS
 The [Collate] check box in the print dialog box.
 - Mac OS X
- The [Collate] check box on [Copies & Pages] in the printer dialog box.

The following table shows the tabs or menus where you can select this function.

Mac OS [Collate] on [Printer Specific Options] in the dialog box.

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Mac OS X	[Collate] on the [Features: Set x] tab on [Printer Feature] in the printer dialog box.
	redicte] in the printer didiog box.

Paper Type

Use this to select the paper type.

The following table shows the tabs or menus where you can select this function.

Mac OS	[Paper Type:] on [Printer Specific Options] in the print dialog box.
Mac OS X	[Paper Type] on the [Feature Set: x] tab on [Printer Features] in the print dialog box.



• For details about the media type supported by this printer, see Hardware Guide.

Image Smoothing

Use this to select the image smoothing type.

The following table shows the tabs or menus where you can select this function.

Mac OS	[Image Smoothing] on [Printer Specific Options] in the print dialog box.
Mac OS X	[Image Smoothing] on the [Feature Set: x] tab on [Printer Features] in the print dialog box.

Off

Disables image smoothing.

On

Performs image smoothing unconditionally.

Auto

Performs image smoothing automatically for images that have a resolution less than 25% of supported printer resolution.

Less than 90 ppi - Less than 300 ppi

Performs image smoothing only when the image has an image resolution (pixels per inch) less than the respective value you have selected in the list.



- When Auto is selected, data processing may take a long time.
- When [Image Smoothing] is used for a mask image, this function may have an undesired effect on the print result.

Dithering

Use this function to set the Image Rendering mode.

The following table shows the tabs or menus where you can select this function.

Mac OS	Dithering: on Printer Specific Options in the print dialog box.
Mac OS X	Dithering: on the Feature Set: x tab on Printer Features in the print dialog box.

You can select the following items:

Auto

Use this setting to configure the best dithering method automatically depending on the appearance of the document to be printed.

Photographic

Performs dithering using an appropriate pattern for photographs.

Text

Performs dithering using an appropriate pattern for text.

User Setting

Use this setting to print images set in half tone in your application.

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Printer Utility for Mac

By using Printer Utility for Mac, you can download fonts, change the name of the printer and so on.



• If a Macintosh and printer are connected by USB, you cannot use Printer Utility for Mac.



- Printer Utility for Mac is included on the CD-ROM labeled "Printer Drivers and Utilities".
- Printer Utility for Mac requires Mac OS 7.6.1-9.x, or Mac OS X 10.1.x or 10.2.1. Mac OS X 10.0.x and 10.2 are not supported.

Installing Printer Utility for Mac

Follow these steps to install Printer Utility for Mac on the printer.

- 1. Start the Macintosh.
- 2. Insert the CD-ROM into the CD-ROM drive.

The CD-ROM icon appears.

3. Double-click the CD-ROM icon.

The contents of the CD-ROM appear.

4. Double-click the [Mac OS 8 and 9] icon to open it.

Under Mac OS X, double-click the [Mac OS X] folder.

- Double-click the [PS Utility] folder on the CD-ROM, and then drag the [Printer Utility for Mac] file, and then drop it into the Macintosh hard disk.
- 6. Drag the CD-ROM icon and drop it into [Trash] to eject the CD-ROM.

Printer Utility for Mac is installed.



- Printer Utility for Mac is included on the CD-ROM labeled "Printer Drivers and Utilities".
- Printer Utility for Mac requires Mac OS 8.1 or higher. (Mac OS X Classic environment is supported.)
- Printer Utility for Mac cannot use Mac OS X (native mode).

Mac OS

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- Before starting Printer Utility for Mac, make sure the printer is selected in [Chooser] on the Apple menu.
- 1. Double-click the Printer Utility for Mac icon.

The [Printer Utility for Mac] dialog box appears.

2. Click [OK].

Printer Utility for Mac will take a few seconds to start.

Mac OS X

1. Double-click the Printer Utility for Mac icon.

The [Printer Utility for Mac] dialog box appears.

- 2. Click [OK].
- 3. In the [Available Printers:] box, select the printer you want to use.

If you change zones, select a name from [Available Network Zones:].

Click [Choose Printer...] on the Printer Utility for Mac menu if you want to change the printer.

4. Select the printer you want to use.

Printer Utility for Mac will take a few seconds to start.

Click [Choose].

Printer Utility for Mac Functions

Downloading PS fonts

You can download the PS fonts to the printer memory or hard disk drive.

- The following procedure to download the fonts assume that you are a system administrator. If you are not, be sure to consult your system administrator.
- During the download, do not turn off the power switch, operate the panel or open or close the cover.
- If the printer restarts, all the printer settings return to the defaults.

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- Confirm that a Macintosh and the printer are connected with Apple Talk.
- 1. Select [Download PS Fonts...] on the [File] menu.
- 2. Click [Add to list].

The dialog box to select fonts appears.

3. Select the desired font files, and then click [Open].

The list of selectable font names appears.

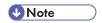
4. After adding all the fonts you want to download, click [OK].

The dialog box of selected fonts to download appears.

5. Click [Download].

The fonts begin to download, and the download status is shown.

- 6. When the completion message appears, click [OK].
- 7. Click [Cancel].



- Some fonts cannot be downloaded.
- Before downloading, read the documentation about the fonts you want to use.

Displaying printer fonts

You can display the available fonts currently downloaded to the printer. Fonts in the printer memory and hard disk drive can be displayed.

1. Select [Display Printer's Fonts...] on the [File] menu.

A dialog box appears.

- 2. Select [Printer's memory] or [Printer's disk].
- Click [OK].



• The fonts displayed in italics are the default fonts.

Deleting fonts

You can delete fonts from the printer's memory or hard disk drive.



- You cannot delete the fonts displayed in italic.
- 1. Select [Display Printer's fonts] on the [File] menu.

A dialog box appears.

- 2. Select [Printer's memory] or [Printer's disk].
- 3. Select the fonts you want to delete.
- 4. Click [Delete].

A confirmation message appears.

- Confirm the fonts you want to delete and the printer name from which you want to delete the fonts.
- 6. Click [Continue], and then click [OK].
- 7. Click [OK].

Initializing the printer disk

When initializing the printer hard disk, all the fonts downloaded to the printer hard disk drive are deleted. Before initializing, be sure to check the fonts on the hard disk drive.

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- When initializing the printer hard disk drive from the control panel, all of the data on the printer hard disk drive is deleted. Before initializing, be sure to check the data on the hard disk drive.
- Do not turn off the power switch until initializing is completed, otherwise the hard disk drive might be damaged.
- Select [Initialize Printer's Disk...] on the [File] menu.
 The confirmation message appears. To cancel initialization, click [Cancel].
- 2. Click [Execute].

Initializing starts.

3. When the completion message appears, click [OK].

Page Setup

You can set the paper size on which to print "Print Fonts Catalogue" and "Prints Fonts Sample".

- 1. Select [Page Setup...] on the [File] menu.
- 2. Select the paper size.
- 3. Click [OK].

Printing font catalog

You can print the names of fonts available on the printer.

1. Select [Print Fonts Catalog...] on the [File] menu.

2. Click [Print].



• The paper selected under [Page Setup] is used.

Printing font sample

You can print samples of fonts downloaded to the hard disk drive or memory.

- 1. Select [Print Fonts Sample...] on the [File] menu.
- 2. Click [Print].



• Print by using the paper selected on [Page Setup].

Renaming the printer

You can change the printer name displayed under Apple Talk. If you connect several printers on the network, assign different names so you can identify them. If several printers have the same name, a digit appears next to the printer name in [Chooser].



- You can enter up to 31 digits and letters.
- Do not use symbols, for example "*", ":", "=", "@", "~".

Mac OS

- 1. On the [File] menu, click [Rename Printer...].
- 2. In the [New Name:] filed enter a new name.
- 3. Click [Rename].

The printer name is changed.

- 4. Click [OK].
- 5. On the Apple menu, click [Chooser].
- 6. Click the [AdobePS] icon.
- 7. Select the printer whose name you changed, and then close the [Chooser] dialog box.
 If there are several Apple Talk zones, select the zone the printer belongs to.

Mac OS X

- 1. On the [File] menu, click [Rename Printer...].
- 2. In the [New Name:] filed enter a new name.

3. Click [Rename].

The printer name is changed.

- 4. Click [OK].
- 5. On the [Printer Utility for Mac] menu, click [Choose Printer...].
- 6. In the [Available Network Zones:] list, select the zone for the Macintosh in use.
- In the [Available Printers:] list, select the printer whose name you changed, and then click [Choose].

Restarting the printer

You can restart the printer.

- 1. Select [Restart Printer] on the [File] menu.
- 2. Confirm the message that appears on the screen, and then click [Restart].

The printer restarts.

The fonts downloaded in the printer memory will be deleted.

If the printer restarts, all the printer settings return to the defaults.

Downloading PostScript files

You can download a PostScript file to the printer.

- 1. Select [Download PostScript File...] on the [Utility] menu.
- 2. Select the file name to download, click the file name, and then click [Open].
- 3. Type the log file name, and then click [Save].

The selected file is downloaded.

Errors are recorded in the log file.

Selecting the zone

You can change the zone to which the printer belongs under Apple Talk.

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Confirm that a Macintosh and printer are connected with Apple Talk.

Mac OS

1. On the [Utility] menu, click [Select Zone...].

The zone to which the printer belongs and the available zone list appear.

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2. Select the zone in which you want to locate the printer, and then click [Change].

A confirmation message appears.

3. Click [Continue].

A confirmation message appears.

- 4. Click [OK].
- 5. On the Apple menu, click [Chooser].
- 6. Click the [AdobePS] icon.
- 7. In the [AppleTalk zone:] list, select the zone you changed.
- 8. In the [Select a PostScript Printer:] list, select the printer you want to use.
- 9. Close the [Chooser] dialog box.

Mac OS X

1. On the [Utility] menu, click [Select Zone...].

The zone to which the printer belongs and the available zone list appear.

2. Select the zone which you want to locate the printer in, and then click [Change].

A confirmation message appears.

3. Click [Continue].

A confirmation message appears.

- 4. Click [OK].
- 5. On the [Printer Utility for Mac] menu, click [Choose Printer...].
- 6. In the [Available Network Zones:] list, select the zone you changed.
- 7. In the [Available Printers:] list, select the model of printer in use, and then click [Choose].

Displaying the printer status

You can display and confirm the current status of the printer.

1. Select [Display Printer Status...] on the [Utility] menu.

The current status of the printer appears.

2. Confirm the current status of the printer.

You can confirm the memory capacity, the VM (Virtual Memory) space, the hard disk drive status and available space on the hard disk drive. You can also confirm the zone to which the printer belongs.

3. Click [OK].

Launching the dialogue console

You can create and edit a PostScript file for printing, and then download it to the printer.

- "Launch Dialogue Console" is recommended for users with an understanding of PostScript.
- Do not download any file other than PostScript files to the printer.
- "Launch Dialogue Console" must be used at your own responsibility.
- 1. Select [Launch Dialogue Console...] on the [Utility] menu.

Open the editing screen. The Dialogue Console menu bar appears.

2. Type the PostScript command in the editor screen.

To edit a PostScript file, select [Open] on the [File] menu to open it.

You can search or replace a character string by using the [Search] menu.

3. After editing the PostScript file, select [Download Top Window] on [Console] menu to start printing.

The PostScript file is sent to the printer.

The [Reply from Printer] box opens, depending on the PostScript file you sent.

4. Select [Return To Main Menu] on the [Console] menu to close the PostScript file.

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9. Security Measures Provided by this Printer

Using Authentication and Managing Users

This section explains how to improve this printer's security.

The setting can be done only by the administrator.

Enabling Authentication

To control administrators' and users' access to the printer, perform administrator authentication and user authentication using login user names and login passwords. To perform authentication, the authentication function must be enabled.

Specifying Authentication Information to Log on

Users are managed using the personal information managed in the printer's address book.

Enabling user authentication limits usage of printer to people registered in the address book to use the printer. Users can be managed in the address book by the user administrator.

Specifying Which Functions are Available

This can be specified by the user administrator. Specify the functions available to registered users. By making this setting, administrators can limit the functions available to users.

Preventing Information Leaks

Guarding Against Unauthorized Copying (Unauthorized Copy Prevention)

Using the printer driver, mask and pattern can be embedded in the printed document.

Guarding Against Unauthorized Copying (Data security for copying)

Using the printer driver with the data security for the copying function, a document can be printed with an embedded pattern of hidden text.

To gray out the copy or stored file of a copy-guarded document when the document is copied or stored, the optional security module is required.

Printing confidential files

Using the printer's Locked Print, files can be stored in the printer as confidential files and then print them. Those file can be printed using the printer's control panel and collected on the spot to prevent others from seeing it.

Preventing Data Leaks Due to Unauthorized Transmission

You can specify in the address book which users are allowed to send files using the scanner or fax function.

You can also limit the direct entry of destinations to prevent files from being sent to destinations not registered in the address book.

Protecting Registered Information in the Address Book

This function allows administrator to specify which users have permission to access the data in the address book. Usage of the data in the address book by unregistered users can be prevented.

Administrator can also encrypt the data in the address book to protect the data from unauthorized reading.

Managing Log Files

Data security can by improved by deleting log files stored in the printer. By transferring the log files, administrator can check the history data and identify unauthorized access.

To transfer the log data, the log collection server is required.

Overwriting the Data on the Hard Disk

Before disposing of the printer, make sure all data on the hard disk is deleted. Prevent data leakage by automatically deleting transmitted printer jobs from memory.

To overwrite the hard disk data, the optional ipp unit is required.

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Limiting and Controlling Access

Preventing Modification or Deletion of Stored Data

Users with access permission to stored files can be specified. Permit selected users who have to access permissions to stored files to modify or delete the files.

Preventing Modification of Printer Settings

The printer settings that can be modified depend on the type of administrator account.

Register the administrators so that users cannot change the administrator settings.

Limiting Available Functions

This function allows administrator to specify which users have accessibility to each of the printer's functions, to prevent unauthorized operation.

Enhanced Network Security

Preventing Unauthorized Access

Limit IP addresses or disable ports to prevent unauthorized access over the network and protect the address book, stored files, and default settings.

Encrypting Transmitted Passwords

Prevent login passwords, group passwords for PDF files, and IPP authentication passwords being revealed by encrypting them for transmission.

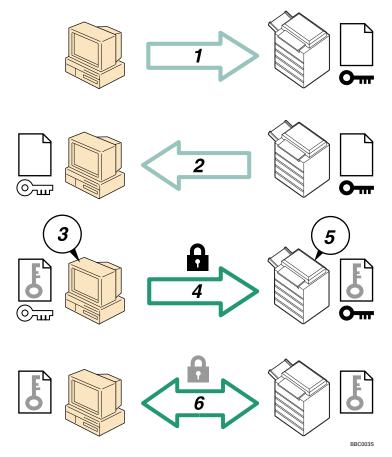
Also, encrypt the login password for administrator authentication and user authentication.

Configuring SSL Encryption

When you access the printer using a Web Image Monitor or IPP, you can establish encrypted communication using SSL.

When you access the printer using an application such as SmartDeviceMonitor for Admin, you can establish encrypted communication using SNMPv3 or SSL. To protect data from interception, analysis, and tampering, you can install a server certificate in the printer, negotiate a secure connection, and encrypt transmitted data.

SSL (SSL (Secure Sockets Layer)Secure Sockets Layer)



- 1. To access the printer from a user's computer, request for the SSL server certificate and public key.
- 2. The server certificate and public key are sent from the printer to the user's computer.
- 3. Create shared key from the user's computer, and then encrypt it using public key.
- 4. The encrypted shared key is sent to the printer.
- 5. The encrypted shared key is decrypted in the printer using private key.

6. Transmit the encrypted data using the shared key, and then decrypt the data at the printer to attain secure transmission.

10. Appendix

Software and Utilities Included on the CD-ROM

This section explains the software and utilities included on the "Printer Drivers and Utilities" CD-ROM that comes with this printer.

Font Manager

For installing new screen fonts, or organizing and managing fonts already in the system. For details about Font Manager, see the manual on the CD-ROM labeled "Printer Drivers and Utilities".

SmartDeviceMonitor for Admin

For the system administrator to manage network printers.

DeskTopBinder - SmartDeviceMonitor for Client

For users to manage their network print status.

Printer Utility for Mac

This utility allows users to download and manage a variety of fonts as well as manage printers. For details about this utility, see "Printer Utility for Mac".



Some documentation about using the machine is included on the CD-ROM in PDF format. For details
about using Adobe Acrobat Reader/Adobe Reader, see Adobe Acrobat Reader/Adobe Reader
online Help.

Reference

• For details, see p.317 "Printer Utility for Mac".

Viewing the Contents of the CD-ROM

This section explains how 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

This section explains printer drivers for this printer.

You can install the PCL printer drivers (PCL 5e and PCL 6), the RPCS printer driver, and the Adobe
PostScript printer drivers from the CD-ROM provided with this machine or download them from the
supplier's Web site. If your operating system is Windows XP x64/Vista x64, Windows Server
2003/2003 R2 x64, you must download the printer drivers from the supplier's Web site. Select this
machine and the operating system you are using, and then download them.

Printing requires installation of a printer driver for your operating system. The following drivers are included on the CD-ROM labeled "Printer Drivers and Utilities".

Printer Language	PCL 6	PCL 5e	RPCS	PostScript 3
Windows 2000 * 1	ОК	OK	ОК	ОК
Windows XP *2	ОК	OK	ОК	ОК
Windows Vista *3	ОК	OK	OK	ОК
Windows Server 2003 *4	ОК	ОК	OK	ОК
Mac OS *5	_	_	_	ОК
Mac OS X *6	_	_	_	ОК

- * 1 Microsoft Windows 2000 Professional / Microsoft Windows 2000 Server/Microsoft Windows 2000 Advanced Server
- *2 Microsoft Windows XP Professional/Microsoft Windows XP Home Edition
- *3 Microsoft Windows Vista Ultimate/Microsoft Windows Vista Enterprise/Microsoft Windows Vista Business/ Microsoft Windows Vista Home Premium/Microsoft Windows Vista Home Basic
- *4 Microsoft Windows Server 2003 Standard Edition/Microsoft Windows Server 2003 Enterprise Edition/Microsoft Windows Server 2003 Web Edition/Microsoft Windows Server 2003 Datacenter Edition/Microsoft Windows Server 2003 R2 Standard Edition/Microsoft Windows Server 2003 R2 Enterprise Edition/Microsoft Windows Server 2003 R2 Datacenter Edition
- *5 Versions 8.6 to 9.2 of the Mac OS (Mac OS X Classic mode is supported.)
- *6 Mac OS X 10.1 or later (Native mode)

PCL printer drivers

Two kinds of PCL printer driver (PCL 5e and PCL 6) are included. These drivers allow your computer to communicate with this machine via a printer language. To use these drivers, the Printer Enhance Option is required.

RPCS printer driver

This printer driver allows the computer to communicate with the printer using a printer language. In addition to the conventional user interface, another preset user interface is provided. In addition to the conventional user interface, another preset user interface is provided.

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Adobe PostScript Printer Drivers and PPD files

Adobe PostScript printer drivers allow the computer to communicate with the printer using a printer language. PPD files allow the printer driver to enable specific printer functions. These drivers require the PostScript 3 Unit.

PPD files

PPD files allow the printer driver to enable specific printer functions.



 Some applications may require installation of the PCL 5e printer driver. In this case, you can install PCL 5e without having to install PCL 6.



• For details, see p.17 "Preparing for Printing", p.59 "Setting Up the Printer Driver".

SmartDeviceMonitor for Admin

This section describes the file path and available functions of SmartDeviceMonitor for Admin.

SmartDeviceMonitor for Admin is an application that uses TCP/IP and IPX/SPX to monitor network printers. It can monitor multiple network printers using IP address. We recommend that network administrators use this application.

File path

SmartDeviceMonitor for Admin is stored in the following folder in the CD-ROM:

\NETWORK\DEVMON\ADMIN\DISK1

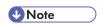
Operating system	Protocol stack		
Windows 2000	TCP/IP provided with Windows 2000		
	IPX/SPX provided with Windows 2000		
	NetWare Client provided with Windows 2000		
	Novell Client provided with Windows 2000		
Windows XP	TCP/IP provided with Windows XP		
	IPX/SPX provided with Windows XP		
	NetWare Client provided with Windows XP		
	Novell Client provided with Windows XP		
Windows Vista	TCP/IP provided with Windows Vista		
	Novell Client provided with Windows Vista		
Windows Server 2003	TCP/IP provided with Windows Server 2003		

Operating system	Protocol stack		
	IPX/SPX provided with Windows Server 2003		
	NetWare Client provided with Windows Server 2003		
	Novell Client provided with Windows Server 2003		

Available functions

SmartDeviceMonitor for Admin has the following functions to check the followings:

- Printer supplies such as paper or toner
- · Results of print jobs executed from the computer



 For information about using SmartDeviceMonitor for Admin, see SmartDeviceMonitor for Admin Help.

DeskTopBinder - SmartDeviceMonitor for Client

This section describes the file path and system requirements of DeskTopBinder-SmartDeviceMonitor for Client

SmartDeviceMonitor for Client has the following functions. We recommend that users install this application.

- Printing in a peer-to-peer network, using TCP/IP, and IPP from Windows 2000/XP/Vista or Windows Server 2003.
- Constantly monitoring the status of devices on the network using TCP/IP and IPX/SPX.



- To perform Recovery or Parallel printing, the same options that are installed on the original printer
 must be installed on the other printers also. Printers that lack a required option cannot be used for
 Recovery or Parallel printing.
- To perform Recovery or Parallel printing, the same paper loaded in the original printer must be loaded
 in the other printers also. Load all printers with the same paper as that loaded in the tray selected for
 printing.
- Results of Recovery or Parallel Printing might differ, depending on the model of the other printer and the options installed on it.
- If you select Sample Print or Locked Print, you cannot select Recovery Printing or Parallel Printing.

File path

SmartDeviceMonitor for Client is stored in the following folder on the CD-ROM.

NETWORK\DEVMON\CLIENT\DISK1

Operating system	Protocol stack		
Windows 2000	TCP/IP provided with Windows 2000		
	IPX/SPX provided with Windows 2000		
	NetWare Client provided with Windows 2000		
	Novell Client provided with Windows 2000		
Windows XP	TCP/IP provided with Windows XP		
	IPX/SPX provided with Windows XP		
	NetWare Client provided with Windows XP		
	Novell Client provided with Windows XP		
Windows Vista	TCP/IP provided with Windows Vista		
	Novell Client provided with Windows Vista		
Windows Server 2003	TCP/IP provided with Windows Server 2003		
	IPX/SPX provided with Windows Server 2003		
	NetWare Client provided with Windows Server 2003		
	Novell Client provided with Windows Server 2003		

Available functions

SmartDeviceMonitor for Client has the following functions.

- Peer-to-peer print function
 - Prints directly on the network printer without sending any data to a print server.
 - Prints on a substitute printer when there are too many jobs waiting on the specified printer, or when an error disables printing (Recovery Printing).
 - Allocates multiple print jobs to multiple printers (Parallel Printing).
 - Executes prior group registration of printers specified for Recovery Printing or Parallel Printing.
- Notification function
 - Displays an error message when there is an error on the specified printer while transferring or printing data.
 - Notifies a print completion. You can also be notified of the print condition, such as displaying
 the notice only when Recovery Printing is executed.
- Monitoring function
 - Checks printer supplies such as paper or toner.
 - Simultaneously monitors multiple printers in use.

- Checks the printer's network settings and detailed information of printers.
- Enables you to check the print job log using the user ID.



• For details about using SmartDeviceMonitor for Client, see SmartDeviceMonitor for Client Help.



• For details about using SmartDeviceMonitor for Client, see SmartDeviceMonitor for Client Help.

Printing Files Directly from Windows

You can print files directly using Windows commands. For example, you can print PostScript files for PostScript 3.

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

You can print files directly using "lpr", "rcp", or "ftp" command.



• To use "sftp" commands, use an sftp client software that is compatible with ssh v2.

Setup

Follow the procedure below to make network environment settings.

 Enable TCP/IP with 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 administrator for the local setting information.

3. To print under Windows 2000/XP/Vista or Windows Server 2003/2003 R2, install "Printing service for UNIX" as the network application.



• For details about setting up "IPv4 address", see Hardware Guide.



 For details about setting the "IPv4 address" of the printer using DHCP, see p.344 "Using DHCP".

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.



• For details about printing a configuration page, see p. 147 "List/Test Print Menu".

In other cases

Add the IPv4 address and host name of the network printer to the hosts file on the computer used for printing. Methods of addition vary depending on operating systems.

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

1. Open the hosts file using memo pad files, for instance.

The hosts file is in the following folder:

\WINNT\SYSTEM32\DRIVERS\ETC\HOSTS

"\WINNT" is the directory of the installation destination for Windows 2000/XP/Vista, Windows Server 2003/2003 R2.

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 the 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.



 When using a host name under Windows Server 2003 with IPv6 protocol, perform host name resolution using an external DNS server. The host file cannot be used.

Printing Commands

The following explains printing operations using the "lpr", "rcp", and "ftp" commands.

Enter commands using the command prompt window. The location of the command prompts varies depending on operating systems:

Windows 2000

[Start] - [Programs] - [Accessories] - [Command Prompt]

• Windows XP, Windows Vista, Windows Server 2003/2003 R2

[Start] - [All Programs] - [Accessories] - [Command Prompt]

Note

- Match the data format of the file to be printed with the emulation mode of the 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
 - rcp, rsh: 5
 - ftp: 3
- Enter the file name in a format including the path from the directory executing commands.
- The "option" specified in a command is an intrinsic printer option and its syntax is similar to printing from UNIX. For details, see UNIX Supplement.

lpr

When specifying a printer by IP address

c:> lpr -Sprinter's IP address [-Poption] [-ol] \pass name\file name

When using a host name instead of an IP address

c:> lpr -Sprinter's host name [-Poption] [-ol] \pass name\file name

When printing a binary file, add the "-ol" option (lowercase O, and lowercase L).

When using a printer with the host name "host" to print a PostScript file named "file 1" located in the "C: \PRINT" directory, the command line is as follows:

c:> lpr -Shost -Pfiletype=RPS -ol C:\PRINT\file1

rcp

First, register the printer's host name in the hosts file.

c:> rcp [-b] \pass name\file name [pass name\file name...] printer's host name:
[option]

When using a printer with the host name "host" to print a PostScript file named "file 1" or "file 2" located in the "C:\PRINT" directory, the command line is as follows:

c:> rcp -b C:\PRINT\file1 C:\PRINT\file2 host:filetype=RPS



- In file names, "*" and "?" can be used as wild cards.
- When printing a binary file, add the "-b" option.

ftp

Use the "put" or "mput" command according to the number of files to be printed.

When one file is printed

ftp> put \pass name\file name [option]

When multiple files are printed

ftp> mput \pass name\file name [\pass name\file name...] [option]

 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 administrator.

User:

Password:

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



- "=", ",", "_", and ";"cannot be used for filenames. 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.

When Using Windows Terminal Service/ MetaFrame

The following explains how to use Windows Terminal Service and Maintenance.

Operating Environment

The following operating systems and MetaFrame versions are supported.

Windows NT Server 4.0 Terminal Server Edition with SP6 or higher

- MetaFrame 1.8 SP3/FR1+SP3/SP4
- MetaFrame XP 1.0 SP1/SP2/FR1

Windows 2000 Server/Advanced Server

- MetaFrame 1.8 SP3/FR1+SP3/SP4
- MetaFrame XP 1.0 SP1/SP2/SP3/SP4/FR1/FR2/FR3
- MetaFrame Presentation Server 3.0
- Citrix Presentation Server 4.0

Windows Server 2003

- MetaFrame XP 1.0 FR3
- MetaFrame Presentation Server 3.0
- Citrix Presentation Cerver 4.0

Supported Printer Drivers

When Windows Terminal Service is operating

- PCL printer drivers
- PostScript 3
- RPCS drivers



Some RPCS printer driver functions do not work if Windows Terminal Service is installed.

Limitations

The following limitations apply to the Windows Terminal Service environment.

These limitations are built in Windows Terminal Service or MetaFrame.

Windows Terminal Service

In an environment where Windows Terminal Service is installed, some printer driver functions are unavailable, even if no Windows Terminal Service functions are used. Use the install mode to install SmartDeviceMonitor for Client in an environment where Terminal Service is running on a Windows NT Server 4.0 Terminal Server Edition or Windows 2000 Server family computer. The following are the two methods of installation using the install mode:

- 1. Use [Add/Remove Programs] in [Control Panel] to install SmartDeviceMonitor for Client.
- 2. Enter the following command in the MS-DOS command prompt:

CHANGE USER / INSTALL

To quit the install mode, enter the following command in the MS-DOS command prompt:

CHANGE USER / EXECUTE



• For more information, see Windows Help.

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 server and the print job or a printer created in [Auto-creating client printers] cannot be deleted, we recommend the following:
 - MetaFrame 1.8 SP3, MetaFrame XP 1.0 SP1/FR1
 Make settings in [Delete unfinished print jobs] in the registry. For details, see the Readme file provided with MetaFrame.
 - MetaFrame XP 1.0 FR2

Make settings in [Delete pending print jobs at logout] under [Printer Properties Management] 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.

Using DHCP

You can use the printer in a DHCP environment. You can also register the printer NetBIOS name on a WINS server when it is running.

- Printers that register the printer NetBIOS name on a WINS server must be configured for the WINS server.
- Supported DHCP servers are Microsoft DHCP Server included with Windows 2000 Server, Windows Server 2003, and the DHCP server included with NetWare and UNIX.
- If you do not use the WINS server, reserve the printer's IP address in the DHCP server so the same IP address is assigned every time.
- To use the WINS server, change the WINS server setting to "active" using the control panel.
- Using the WINS server, you can configure the host name via the remote network printer port.
- 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 machine operates using data from the DHCP server that responds first.
- DHCP servers can operate in an IPv6 environment, but they cannot be configured to allocate IPv6 addresses or obtain host names.

Using AutoNet

If the printer IPv4 address is not automatically assigned by the DHCP server, a temporary IP address starting with 169.254 and not used on the network can be automatically selected by the printer.



- 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. For more information about the configuration page, see Quick Installation Guide.
- When AutoNet is running, the NetBIOS name is not registered on the WINS server.
- The machine cannot communicate with devices that do not have the AutoNet function. However, this
 machine can communicate with Macintosh computers running Mac OS X 10.2.3. or higher.

Configuring the WINS Server

The printer can be configured to register its NetBIOS name with a WINS server when the power is turned on. This enables the NetBIOS name of the printer to be specified from SmartDeviceMonitor for Admin even in a DHCP environment.

This section explains configuring the WINS server.



- The WINS server is supported with Windows 2000 Servers WINS Manager.
- For details about the WINS server settings, see Windows Help.
- If there is no reply from the WINS server, the NetBIOS name is registered by broadcast.
- The NetBIOS name can be entered using up to 13 alphanumeric characters.

Using Web Image Monitor

- 1. Start a Web browser.
- 2. Enter "http://(printer's IP address or host name) /" in the address bar to access the printer whose settings you want to change.

Top Page of Web Image Monitor appears.

3. Click [Login].

The dialog box for entering the user name and password appears.

4. Enter the user name and password, and then click [Login].

Contact your administrator for information about the settings.

- 5. In the left area, click [Configuration], and then click [Network].
- 6. Click [TCP/IP].
- Check that [Enable] is selected for [WINS] in the [Ethernet + Wireless LAN] column, and then
 enter the WINS server IPv4 address in [Primary WINS Server] and [Secondary WINS
 Server].
- 8. Click [Apply].
- 9. Quit Web Image Monitor.

Using telnet

You can also use telnet to configure WINS.

Using the Dynamic DNS Function

Dynamic DNS is a function which dynamically updates (registers and deletes) records (A record, AAAA record, CNAME, and PTR record) managed by the DNS server. When a DNS server is part of the network environment to which this printer, a DNS client, is connected, records can be dynamically updated using this function.

Updating

Updating procedure varies depending on whether the printer IP address is static or acquired by DHCP.



• Dynamic update using message authentication (TSIG, SIG(0)) is not supported.

For a static IPv4 setting

If the IP address or host name is changed, the A and PTR records are updated. If the A record is registered, CNAME is also registered. CNAMEs that can be registered are as follows:

Ethernet and wireless LAN
 RNPXXXXXX (XXXXXX represents the last 3 hexadecimal bytes of the MAC address)
 However, if CNAME (PRNXXXXXX) overlaps with the host name, CNAME will not be registered.

For DHCPv4 settings

As a substitute for the printer, the DHCP server updates the record, and one of the following occurs:

- When the printer acquires the IP address from the DHCP server, the DHCP server updates the A
 and PTR records.
- When the printer acquires the IP address from the DHCP server, the printer updates the A record, and the DHCP server updates the PTR record.

If the A record is registered, CNAME is also registered. CNAMEs that can be registered are as follows:

Ethernet and wireless LAN

RNPXXXXXX (XXXXXX represents the last 3 hexadecimal bytes of the MAC address)

For IPv6 settings

This printer updates the AAAA record and PTR record.

It also updates CNAME when the AAAA record is updated.

When a stateless address is newly set, it is automatically registered on the DNS server also.



- When the dynamic DNS function is not used, records managed by the DNS server must be updated manually, if the printer's IP address is changed.
- To update the record using the printer, the DNS server has to have one of the following:

- No security settings made.
- If security settings are made, an IP-specified client (this printer) permits updating.

DNS Servers Targeted for Operation

For static IP setting

- Microsoft DNS servers with standard Windows 2000 Server/Windows Server 2003 features
- BIND 8.2.3 or higher

For DHCP setup, when the printer updates the A record

- Microsoft DNS servers with standard Windows 2000 Server/Windows Server 2003 features
- Microsoft DNS servers with standard Windows 2000 Server/Windows Server 2003 features

For DHCP setup, when the DHCP server updates records

- Microsoft DNS servers with standard Windows 2000 Server/Windows Server 2003 features
- BIND 8.2.3 or higher
- DNS servers with standard NetWare 5 (or a higher version) features

For IPv6 setting

- Microsoft DNS servers with standard Windows Server 2003 features
- BIND 9.2.3 or higher

DHCP Servers Targeted for Operation

As a substitute for the printer, DHCP servers capable of updating the A record and PTR record are as follows:

- Microsoft DHCP servers with standard Windows 2000 Server (Service Pack 3 or higher versions)/ Windows Server 2003 features
- ISC DHCP 3.0 or higher
- DHCP server with standard NetWare 5 features

Setting the Dynamic DNS Function

Make settings with telnet using the "dns" command.



• For details, see "Remote Maintenance by telnet".

• p.216 "Remote Maintenance by telnet"

Precautions

Please pay attention to the following when using the network interface board. When configuration is necessary, follow the appropriate procedures below.

Connecting a Dial-Up Router to a Network

When using NetWare (file server)

If the NetWare file server and printer are on opposite sides of a router, packets are sent back and forth continuously, possibly incurring communications charges. Because packet transmission is a feature of NetWare, you need to change the configuration of the router. If the network you are using does not allow you to configure the router, configure the printer instead.

Configuring the router

Filter packets so they do not pass over the dial-up router.

Configuring the printer with NetWare

- 1. Following the setup method described earlier in this manual, configure the file server.
- 2. Set the frame type for NetWare environment.

Configuring the printer without NetWare

 When not printing, the network interface board sends packets over the network. Set NetWare to "inactive".



- The MAC address of the filtering printer is printed on the printer configuration page. For more information about printing a configuration page, see "Test Printing", Quick Installation Guide.
- For more information about configuring the printer if the router cannot be configured, see the following
 instructions.
- For more information about selecting a frame type, see "Ethernet Configuration", Hardware Guide.
- For more information about selecting a protocol, see "Ethernet Configuration", Hardware Guide.

When the Wireless LAN Interface Unit Is Installed

When using the wireless LAN interface on the network, note the following:

When moving the printer

Detach the antennas when relocating the printer locally.

After moving the printer, reattach the antennas, ensuring that:

- The antennas are positioned clear of obstacles.
- There is 40 to 60 mm between the antennas, so that they do not touch.
- The exposure glass cover and the Auto Document Feeder (ADF) do not knock the antennas.

If the network area provides poor radio environment

Where radio wave conditions are bad, the network may not function due to interrupted or failed connections. When checking the wireless LAN signal and the access point, follow the procedure below to improve the situation:

- Position the access point nearer to the printer.
- Clear the space between access point and printer of obstructions.
- Move radio wave generating appliances, such as microwaves, away from the printer and access point.



- For information about how to check radio wave status, see "Wireless LAN Configuration", Hardware Guide.
- For more information about access point radio wave conditions, refer to the access point manual.



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