

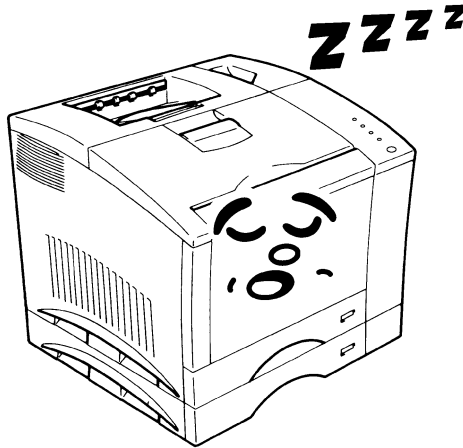
Color PageWorks™/Pro L

User's Guide





As an ENERGY STAR® Partner, we have determined that this machine meets the ENERGY STAR® Guidelines for energy efficiency.



What is an ENERGY STAR® Printer ?

ENERGY STAR® Printers have a feature that allows them to automatically “go to sleep” after a period of inactivity. This auto-feature can reduce a machine’s annual electricity cost by 60 percent.

This manual explains the functions and operation of the printer. It also gives some troubleshooting tips as well as general precautions to be observed when operating this printer.

To ensure the best performance and effective use of your printer, please read this manual carefully from cover to cover. After you have read through the manual, keep it near your printer for future reference. It should help in solving any operational questions you may have.

Trademark acknowledgments

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Please follow the instructions given in this manual when handling your printer and do not touch any part of the machine which the manual does not cover. NEVER attempt to disassemble or remodel the printer.

Safety Information

- The printer should be plugged into an electrical outlet that is easily accessible.
- After installing the network card, be sure to replace the cover and secure it with the screws provided.
- When moving the printer, two people are required to lift it carefully as explained in Chapter 1 of the instructions.

LASER SAFETY

This is a page printer which operates by means of a laser. There is no possibility of danger from the laser, provided the printer is operated according to the instructions in this manual. Since radiation emitted by the laser is completely confined within protective housing, the laser beam cannot escape from the machine during any phase of user operation.

INTERNAL LASER RADIATION (For All Users)

Maximum Radiation Power: 1.0×10^{-3} (W) Wavelength: 770- 810 (nm)

This is a class IIIb Laser Diode Assy. that has an invisible laser beam. The printer head unit is NOT A FIELD SERVICE ITEM. Therefore, the printer head unit should not be opened under any circumstances.

LASER SAFETY

For Users in the United States

Laser Safety

This printer is certified as a **Class 1** Laser product under the **U. S. Department of Health and Human Services (DHHS)** Radiation Performance Standard according to the Food, Drug and Cosmetic Act of 1990. This means that the printer does not produce hazardous laser radiation.

CDRH Regulations

The **Center for Devices and Radiological Health (CDRH)** of the U. S. Food and Drug Administration implemented regulations for laser products on August 2, 1976. Compliance is mandatory for products marketed in the United States. The label shown below indicates compliance with the CDRH regulations and must be attached to laser products marketed in the United States.

WARNING

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

For All Other Users

WARNING

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

This is a semiconductor laser. The maximum power of the laser diode is 1.0×10^{-3} W and the wavelength is 770- 810 nm.

USER INSTRUCTIONS

For Users in the United States

FCC PART 15- RADIO FREQUENCY DEVICES WARNING

The following applies to the Color PageWorks L.

FCC: Declaration of Conformity	
Product Type	Laser Beam Printer
Product Name	Color PageWorks L
Options	250 Sheet Third Cassette Unit Network Interface Card (4179-371: Ethernet)
This device complies with Part 15 of the FCC Rules. Operation is subject to the following conditions; (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.	
Minolta Corporation 101 Williams Drive, Ramsey, New Jersey 07446 Telephone number: 201-825-4000	

WARNING

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

- **Reorient or relocate the receiving antenna.**
- **Increase the separation between the equipment and the receiver.**
- **Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.**
- **Consult the dealer or an experienced radio/TV technician for help.**
- **Any changes or modifications not expressly to operate this**

equipment.

NOTE

- This device must be used with shielded interface cables. The use of non-shielded cables is likely to result in Interference with radio communications and is prohibited under FCC rules. Parallel interface cable must be used accessories.
- The design and production of this unit conforms to FCC regulations, and any changes or modifications must be registered with the FCC and are subject to FCC control. Any changes made by the purchaser or user without first contacting the manufacturer will be subject to penalty under FCC regulations.

USER INSTRUCTIONS

For Users in Canada

INTERFERENCE-CAUSING EQUIPMENT STANDARD (ICES-003 ISSUE 3) WARNING

The following applies to the Color PageWorks L.

This Class B digital apparatus complies with Canadian ICES-003.
Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

For All Users

WARNING

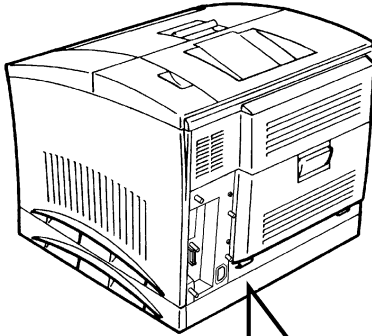
This device must be used with shield interface cables. The use of non-shielded cable is likely to result in interference with radio communications and is prohibited under the EMC regulations of your country. Especially parallel interface cables must be used accessories.






OZONE RELEASE

For All Users

During printer operation, a small quantity of ozone is released. This amount is not large enough to harm anyone adversely. However, be sure the room where the printer is being used has adequate ventilation, especially if you are printing a high volume of materials, or if the printer is being used continuously over a long period.

WARNING LABEL



MODEL Color PageWorks L I.R.O.: 127W-50-50Hz 7.5A SERIAL NO. [REDACTED]	 LISTED 1996 E68579		 Tested to Comply With FCC Standards FOR HOME OR OFFICE USE		
This Class B digital apparatus complies with Canadian (ICES-003) Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.	This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: 1) This device may not cause harmful interference, and 2) This device must accept any interference received, including interference that may cause undesired operation.			MINOTA CO., LTD. 2-10-24-1, Katsuchi, Yahato-cho, Toyohara-eki, Aichi-ken 442, Japan MANUFACTURED: [REDACTED]	
				THIS PRODUCT COMPLIES WITH 21 CFR CHAPTER 1, SUBCHAPTER J. MADE IN JAPAN	

Features

1. High quality printing

- Clear text and excellent graphics supported by 3 different resolution settings: 600 × 600 dpi, 1,200 × 600 dpi and 2,400 × 600 dpi.
- Excellent graphics (131 lpi, 128 gray levels)
- Super Fine Micro Toning (Fine-MT) developing system
- 8µm small particle toner
- Color matching technology
 - Windows 95/ Windows 98 ICM
 - Printer embedded color matching

2. Printer Description Language (PDL)

- Windows
- Adobe PostScript Level 2 equivalent (Z Script)

3. High speed printing

- Full color 3ppm, B/W 12ppm
- High performance RISC processor
 - Hitachi HD6437034F20/20 MHZ
- High speed data transfer
 - IEEE 1284 IEEE1284-C, ECP/EPP compliant interface
 - Network option (Ethernet)

4. Versatile paper handling

- Transparency, labels, thick paper, envelopes

5. Compact size

- Width 505mm/ 20"
- Depth 530mm/ 20-3/4"
- Height 403mm/ 15-3/4"

6. Network ready with option

- Ethernet

Server: Windows NT, NetWare 3.X/ 4.X (Bindery & NDS)

Client: Windows 95, Windows 98, Windows 3.1,
Windows NT Workstation 4.0

7. Easy maintenance and operation

- Easy maintenance with cartridge type supplies
- GUI driver

8. Environmentally friendly

- Ozone free
- Power save mode (Energy Star compliant)

Symbols and Terms

This manual uses the following symbols and terms:

ATTENTION

This symbol indicates that a specified course of action is required to avoid causing damage or injury. Please be sure to follow the instructions in this manual exactly, whenever you see this symbol.

This symbol is found at the following locations: “Changing the Oiling Roller”, “Changing the Fusing Unit and Image Transfer Roller Unit”, “Cleaning the Printer” and “Clearing a Paper Misfeed”.

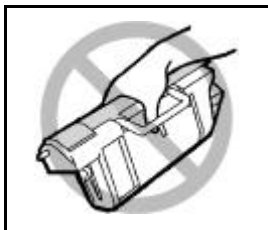
Note

This indicator is used to identify sections that require special attention.

Action Prohibited

This symbol is used over illustrations throughout this manual to indicate that a specified course of action must not be taken. Do not follow examples that are superimposed with this symbol.

example:



LED Display

The lit, blinking and unlit LED patterns of the Control Panel display the following messages.



On



Off



Blinking

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MEMO

Chapter

Introduction

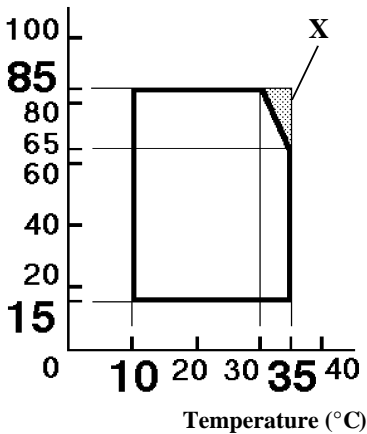
1

Precautions for Use

Operating Environment

The operating environmental requirements of the printer are as follows.

Humidity (%)



- **Temperature:** 10°C (50°F) to 35°C (86°F) with a fluctuation of 10°C (18°F) per hour.

- **Humidity:** 15% to 85% RH with a fluctuation of 20% per hour.

- * The environmental zone marked “X” on the left represents a critical environment in which the printer can be left to stand. However, the manufacturer does not ensure optimal paper passage performance and image production in this zone. Be sure to operate the printer within the operating environment identified within the bold line.

Using the Printer

To ensure the optimum performance of the printer, follow the precautions listed below.

- **NEVER** open any printer door, or turn **OFF** the printer during operation.
- **NEVER** bring any magnetized object or flammable gas or liquid near the printer.
- **NEVER** pull on the power cord and **ALWAYS** hold the plug when unplugging it. A damaged cord could result in a fire or cause an electrical shock.
- **NEVER** attempt to unplug the power cord with a wet hand, as it could cause an electrical shock.
- **ALWAYS** unplug the power cord whenever attempting to move the printer. Moving the printer with the power cord plugged in can damage the cord, resulting in a fire or causing an electrical shock.
- **ALWAYS** unplug the power cord when the printer is not to be used for an extended period of time.
- **NEVER** remove any panel or cover unless the procedure is described in the user's manual. The printer contains a high-voltage component which can cause an electrical shock.
- **NEVER** alter the engineering or mechanics of the printer, as a fire or electrical shock could result.
- **NEVER** place a heavy object on the power cord nor pull or bend it, as a fire or electrical shock could result.
- **NEVER** rest the printer upon the power cord or communications cables of other electrical equipment and do not allow such cords or cables to become lodged into the printer's own mechanisms; equipment damage or fire could result.
- **NEVER** drop paper clips, staples, or other small pieces of metal through the vents or other openings of the printer, as a fire or electrical shock could result.

- **NEVER** place a vase or vessel containing water or other fluids on or near the printer as this can cause a fire or electrical shock. Should fluid or any foreign object get inside the printer, immediately turn it **OFF**, unplug the power cord, and call your technical representative. A fire or electrical shock could result if the printer is allowed to run without taking necessary action.
- **NEVER** leave the printer running should it become unusually hot, emit smoke, an unusual smell or noise. Should any of these occur, immediately turn **OFF** the printer, unplug it, and call your technical representative. A fire or electrical shock could result if the printer is allowed to run without taking necessary action.

Note

= Locate the printer in a Well Ventilated Room =
A negligible amount of ozone is generated during normal operation of this printer. An unpleasant odor may, however, be created in poorly ventilated rooms during extensive printer operations. For a comfortable, healthy, and safe operating environment, it is recommended that the room be well ventilated.

Remarque

= Placer l'imprimante dans une pièce largement ventilée =
Une quantité d'ozone négligable est dégagée pendant le fonctionnement de l'imprimante quand celle-ci est utilisée normalement. Cependant, une odeur désagréable peut être ressentie dans les pièces dont l'aération est insuffisante et lorsqu'une utilisation prolongée de l'imprimante est effectuée. Pour avoir la certitude de travailler dans des conditions de confort, santé et sécurité, il est préférable de bien aérer la pièce où se trouve l'imprimante.

Care of Printer Supplies

Use the following precautions when handling the printer supplies (**toner cartridge**, **drum cartridge**, and paper).

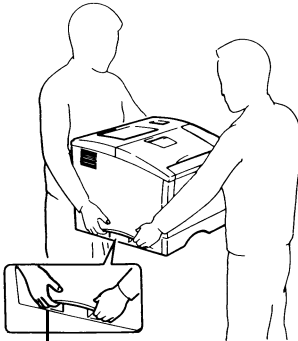
- Avoid storing the supplies in any of the following places:
 - ▣ A place subject to direct sunlight (the **drum cartridge** should not be exposed to fluorescent light, either).
 - ▣ A hot place or near an open flame
 - ▣ A humid place
 - ▣ A dusty place
- Surplus paper, which has been removed from its protective packaging but not yet loaded into the printer tray, should be sealed in a plastic bag and stored in a cool, dark place.
- Use only the **toner cartridge** and toner specifically designed for use with this printer.
- Keep supplies out of the reach of children.
- If your hands should come into direct contact with the toner, wash them with soap and water immediately.

Note

- When removing the **drum cartridge** from the printer, immediately wrap it in a thick cloth to protect it from light.

Moving the Printer

Observe the following precautions when moving the printer.



Grips

- Since the printer weighs approximately 35kg (77-1/4 lbs.), two people are required to lift it carefully.
- If you need to transport the printer over a long distance, consult your technical representative.

Note: Moving the printer with a third cassette unit (option)

- The **third cassette unit** is attached to the printer through the coupling pins only. Moving the printer with the **third cassette unit** attached is not advised, as there is a strong possibility that the two pieces may separate and become damaged.



Be certain to move the printer and the **third cassette unit** separately.

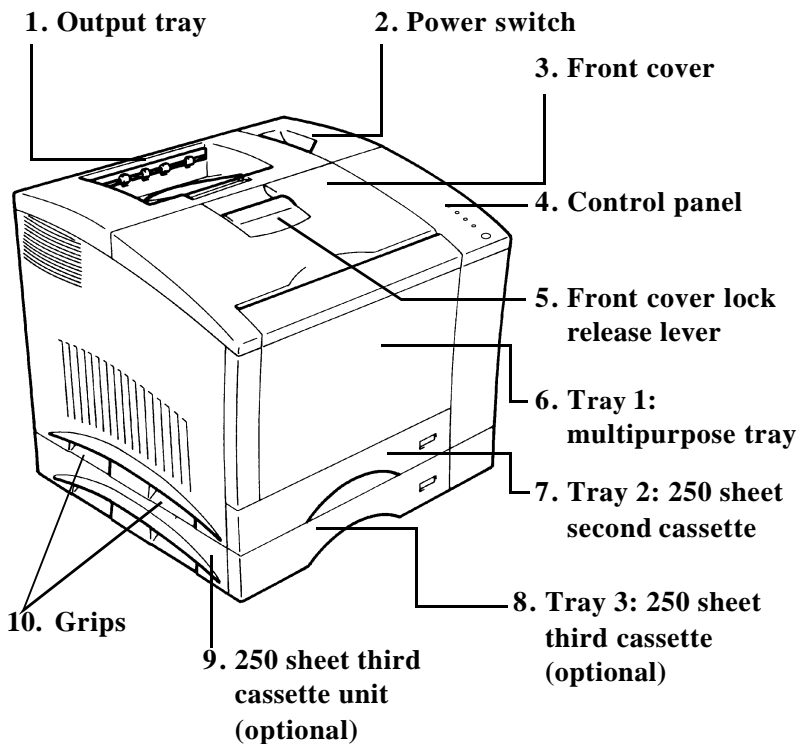
Chapter

Using the Printer

2

The Printer, Parts and Supplies

Printer



1. Output tray

The printed paper is output, face down onto this tray. The tray can hold up to 250 sheets of paper. ☰ p. 2-43


2. Power switch

Use to turn the printer ON and OFF. ☰ p. 2-17

3. Front cover

Open the cover by pulling the lever up and swinging the door down to replenish supplies such as the **toner cartridge**, or to clear a paper misfeed.


4. Control panel

- The LED's shows the current status of the printer. For more details, see "Control Panel"  p. 2-9


5. Front cover lock release lever

Pull down to unlock the **front cover**.


6. Tray 1: multipurpose tray

- Swing open toward you to load paper.
- Holds up to 150 sheets of paper.  p. 2-19

7. Tray 2: 250 sheet second cassette

Holds up to 250 sheets of paper.  p. 2-19


8. Tray 3: 250 sheet third cassette (optional)

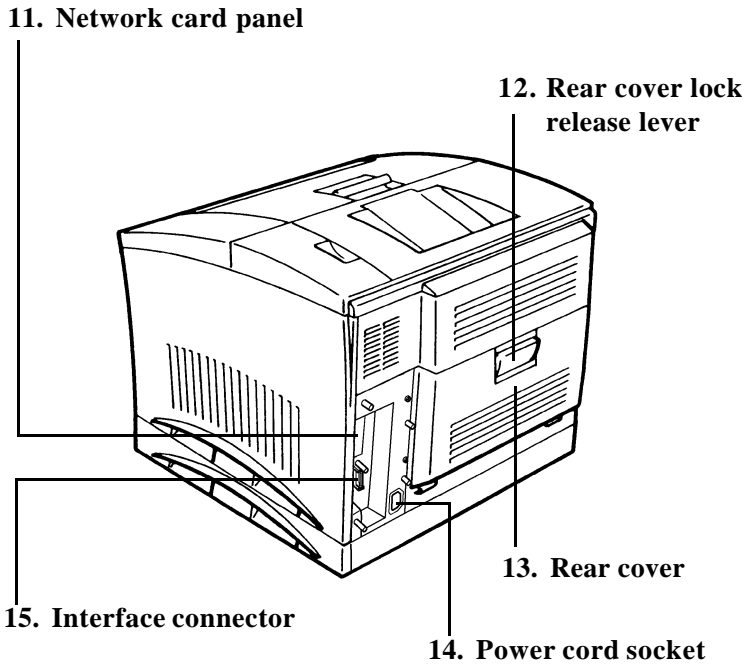
Holds up to 250 sheets of paper.  p. 2-19

9. 250 sheet third cassette unit (optional)

Houses a third cassette, increasing paper capacity to 650 sheets when installed under the printer.

10. Grips

- Two grips are provided on each side of the printer (four in all). Use to carry the printer during installation or relocation.
- The printer requires two people to be lifted safely.  p. 1-5



11. Network card panel

Use to mount the optional **network card**.

12. Rear cover lock release lever

Pull down to swing open the **rear cover**.

13. Rear cover

Swing open to change the **oiling roller** assembly or clear a paper misfeed.

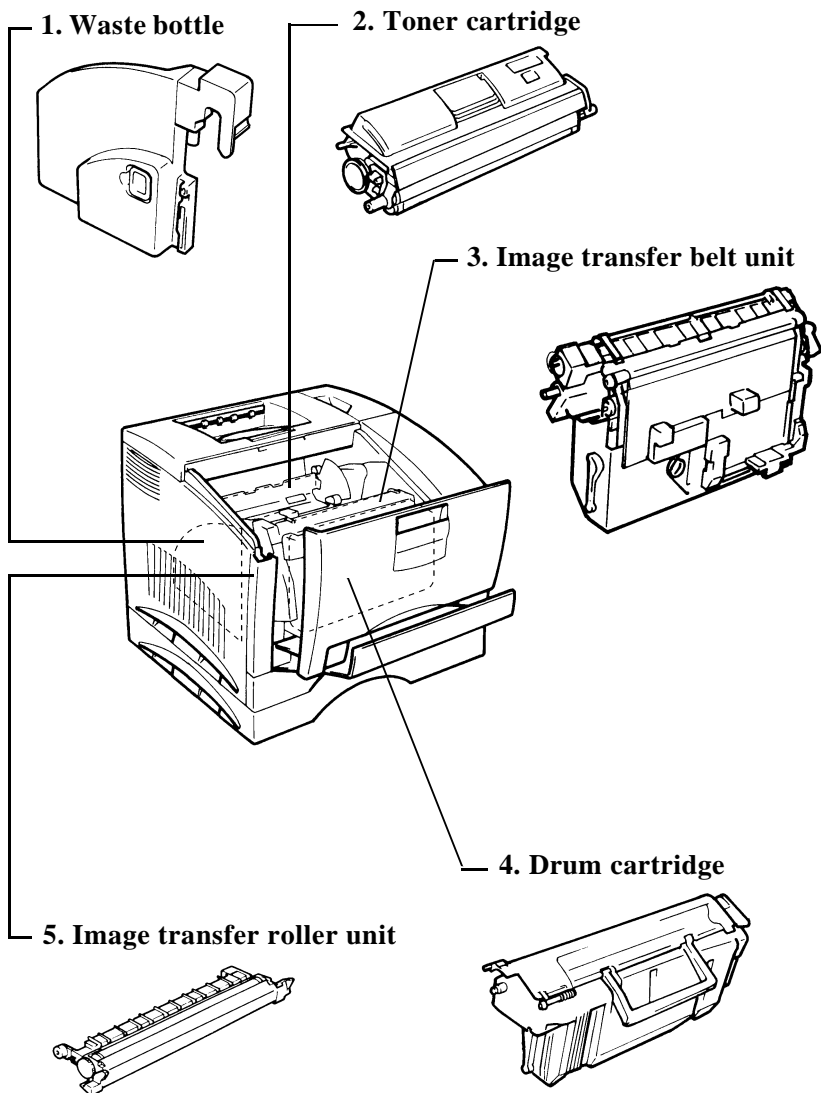
14. Power cord socket

Connect the **power cord** of the printer to this socket.


15. Interface connector

Provides connection between the printer and host computer.


Supplies and Units




1. Waste bottle

- Collects and contains unused toner.
- Replace this bottle with a new one when it is full.  p. 4-11
- Dispose of the old container in a plastic bag or according to local regulations.


2. Toner cartridge

- There are four different **color toner cartridges**: Black, Yellow, Magenta (Red) and Cyan (Blue).
- Replace these cartridges with new ones when necessary. Dispose of old cartridges in a plastic bag or according to local regulations.  p. 4-1


3. Image transfer belt unit

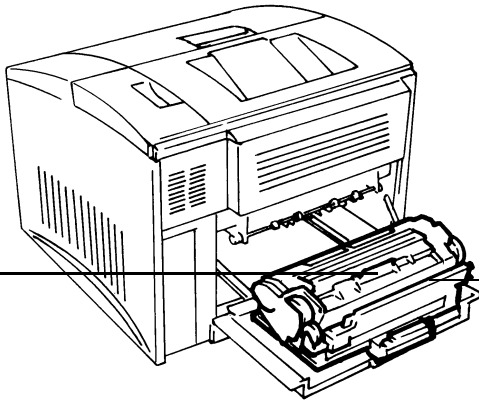
- Transfers the image created by the **drum cartridge** onto paper. Handle with care.  p. 4-31
- Dispose of the old unit in a plastic bag or according to local regulations.

4. Drum cartridge

- Processes the image. Handle with care.
- Replace this cartridge with a new one when necessary.  p. 4-11
- Dispose of the old cartridge in a plastic bag or according to local regulations.

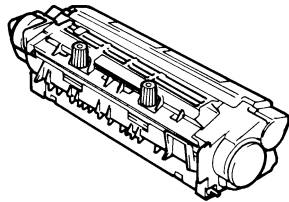
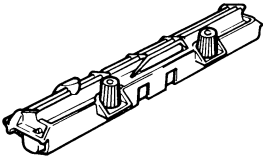
5. Image transfer roller unit

- Transfers the image created by the **drum cartridge** onto paper. Handle with care.  p. 4-23
- Dispose of the old unit in a plastic bag or according to local regulations.



6. Oiling roller

7. Fusing unit



6. Oiling roller

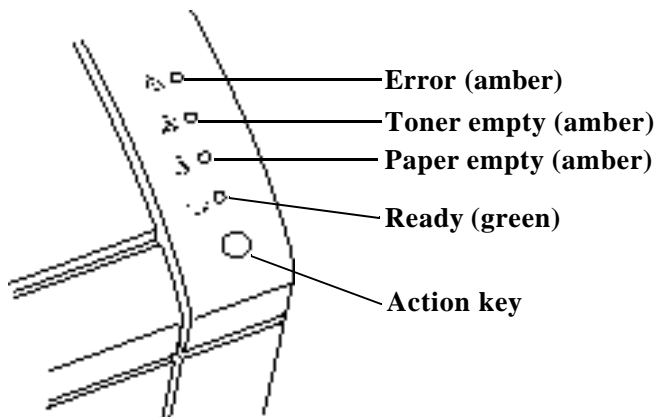
- Oils and cleans the **fusing rollers**.
- Replace the **oiling roller** with a new one when necessary.
☰ p. 4-11
- Dispose of the old roller in a plastic bag or according to local regulations.

7. Fusing unit

- Permanently fixes the image onto paper. ☰ p. 4-23
- Dispose of the old unit in a plastic bag or according to local regulations.

Control Panel

The control panel has four indicator lights and one button.



Error LED

ON: A Fatal Error has occurred

BLINKING: A recoverable error has occurred

OFF: Normal



Toner Empty LED

ON: One or more of the toner cartridges is empty

BLINKING: One or more of the toner cartridges is almost empty

OFF: Normal



Paper Empty LED

ON: The selected paper tray is empty

BLINKING: The selected paper tray is almost empty

OFF: Normal



Ready LED

ON: The printer can receive print jobs

BLINKING: The printer is warming up

OFF: The printer is off line



Action Key

Press this key if an error should occur in order to have the current condition of the printer displayed through the LED.

Indicator Lights

The four indicator lights turn on, off, or blink in combination to let you know the current status of the printer. You can find out details of the printer's status by checking the information that appears on your computer screen.



On



Off




Blinking


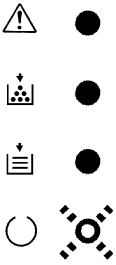
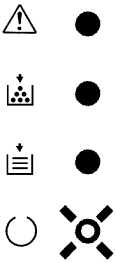
Action Key

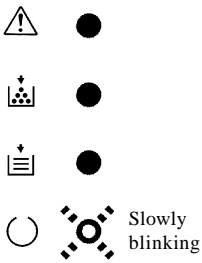




- The LED display will change as you push the Action key.
- The appearance of this icon throughout this manual indicates when you need to press the Action key.




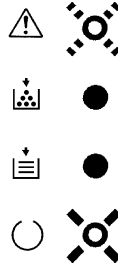

Examples of the messages that can be displayed by the LED are presented on the following page. For details, see "Chapter 5 Troubleshooting" ( p. 5-5)

○ ⊗ When the Ready LED is on

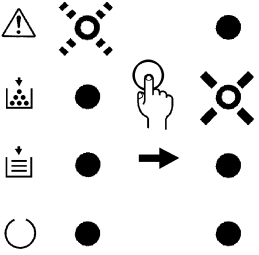


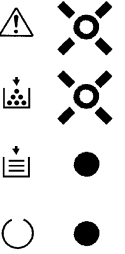


LED Display	Description	Response Required
<p>Initializing</p> 	<p>Power on, initializing.</p>	<p>Wait a few moments.</p>
<p>Warming Up</p> 	<p>Printer is warming up.</p>	<p>Wait a few moments for the printer to warm up.</p>
<p>Ready</p> 	<p>Printer is ready and able to print.</p>	<p>Send a print job.</p>

LED Display	Description	Response Required
<p>Power Save</p>  <p>Slowly blinking</p>	<p>Printer has entered a power conservation mode. Printing is possible. The printer will go into the Ready mode as soon as it receives the next print job.</p>	<p>Send a print job. It takes some time before the printer can print while in the power conservation mode. Please wait a few moments.</p>
<p>Paper Low</p> 	<p>Tray 2 or Tray 3 is almost out of paper.</p>	<p>Press the Action key and check to see which tray is almost out of paper. For details, see "Chapter 5 Troubleshooting". [p. 5-7]</p>
<p>Paper Empty/No Tray</p> 	<p>Paper Empty: The paper supply of one of the trays is empty.</p>	<p>Press the Action key and check to see which tray is out of paper. For details, see "Chapter 5 Troubleshooting". [p. 5-8]</p>
	<p>No Tray: Tray 2 or Tray 3 is not in place.</p>	<p>Press the Action key and check to see which tray is not in place. For details, see "Chapter 5 Troubleshooting". [p. 5-9]</p>

○ ⊗ When the Ready LED is on

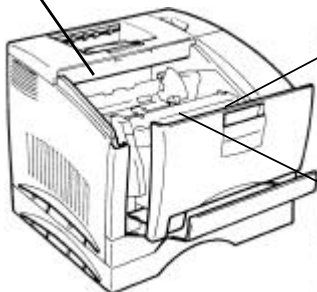
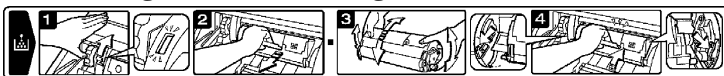
LED Display	Description	Response Required
<p>Wait Action</p> 	<p>Press the Action key in the event of a paper size error, a size mismatch or when operating in the manual mode.</p>	<p>Press the Action key. Printing will begin.</p>
<p>Toner Low</p> 	<p>The supply of toner inside of the toner cartridge is low but printing is still possible.</p>	<p>Press the Action key and check to see which color of the toner cartridges is almost empty. For details, see "Chapter 5 Troubleshooting".  p. 5-10</p>
<p>Drum Cartridge Almost Used</p> 	<p>It is almost time to replace the drum cartridge.</p>	<p>Ready a drum cartridge replacement. Since the drum cartridge is on the same replacement cycle as the waste bottle and oiling roller, prepare to replace these items as well.  p. 4-11</p>

  When the Error LED is on

LED Display	Description	Response Required
<p>Paper Size Error</p> 	<p>The wrong size of paper has been detected in Tray 1.</p>	<p>Supply the specified size of paper to the selected paper source. Printing will resume using the paper size currently loaded in the printer by pressing the Action key.  p. 2-23</p>
<p>Size Mismatch</p> 	<p>The wrong size of paper has been detected in Tray 2 or Tray 3.</p>	
<p>Replace Toner/ Put Toner Cartridge</p> 	<p>Replace Toner: One of the toner cartridges is empty.</p> <p>Put Toner Cartridge: One or more of the toner cartridges is missing.</p>	<p>Press the Action key to determine which toner cartridge is empty. For details, see "Chapter 5 Troubleshooting".  p. 5-14</p> <p>Load the toner cartridge(s).  p. 4-1</p>

Operation and Warning Labels

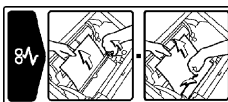
1. Installing the toner cartridge



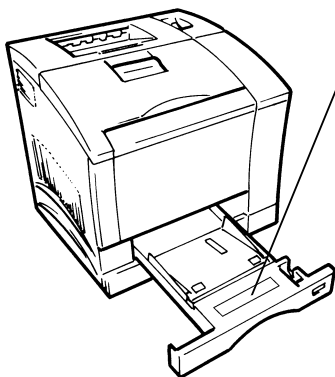
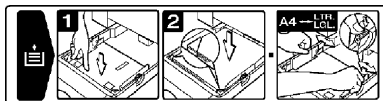
2. Changing the waste bottle, drum cartridge and oiling roller



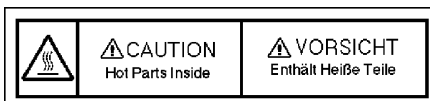
3. Clearing paper misfeeds



4. Loading paper



5. WARNING! HIGH TEMPERATURE



1. Installing the toner cartridge

- Describes how to replace the **toner cartridge**. For details, refer to “Changing the Toner Cartridge” on page 4-1.

2. Changing the waste bottle, drum cartridge and oiling roller

- Describes how to replace the **waste bottle, drum cartridge and oiling roller**. For details, refer to page 4-11.
- The **waste bottle, drum cartridge and oiling roller** are preset to be replaced simultaneously. Replace these three units at the same time.

3. Clearing paper misfeeds

- Describes how to clear the paper path after a misfeed.
- For details, refer to “Clearing a Paper Misfeed” on page 5-21.

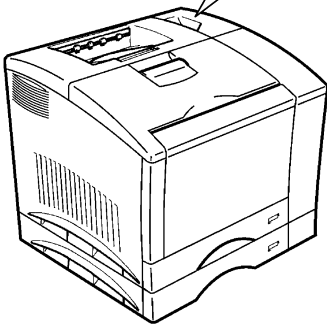
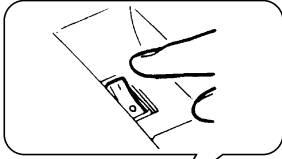
4. Loading paper

- Describes how to replenish the paper feed tray.
- For details, refer to “Loading Paper” on page 2-23.

5. WARNING! HIGH TEMPERATURE

- Alerts you to the high temperature surrounding the area where the label is applied on the **fusing unit**.
Do not touch this area when you change the **oiling roller** or clear a misfeed.

Turning the Printer ON and OFF



Turning the printer ON

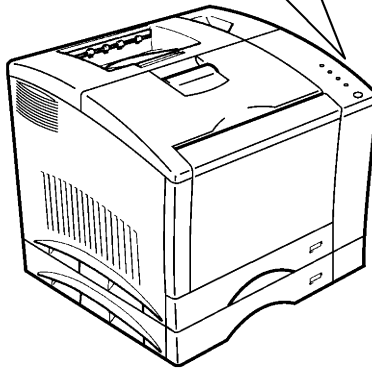
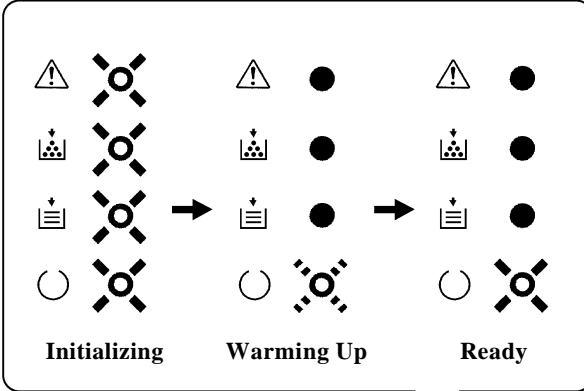
Press the **power switch** to the **I** (ON) position.

Turning the printer OFF

Press the **power switch** to the **O** (OFF) position.

When the printer is On

The printer is ready to print approximately 90 seconds after the **power switch** is turned ON.



Note

- If no print commands are sent from the host computer to the printer within **15 min.**, the printer automatically enters the **Power save mode**.

Paper

Precaution

- This printer is designed to print on only the following types of paper.

Type

Paper feeding port	Plain paper weighing: 60 to 90 g/m ² 16 to 24 lbs	Special paper						
		Recycled paper weighing: 60 to 90 g/m ² 16 to 24 lbs.	Transparency sheet	Labels	Letter-head	Envelopes	J-Post (Postcard) size: 100 × 148 mm 4" × 5-3/4"	Thick paper* weighing: 90 to 157 g/m ² 24 to 41-1/4 lbs.
Tray 1	○	○	○	○	○	○	○	○
Tray 2	○	○	○	None	None	None	None	None
Tray 3	○	○	○	None	None	None	None	None

* Does not support Legal L size thick paper.

L: Lengthwise

Size

Standard size

Paper feeding port	A4 210×297 mm 8-1/4"×11-3/4"	JIS B5 182×257 mm 7-1/4"×10"	A5 148×210 mm 5-3/4"×8-1/4"	Legal * 8-1/2"×14" 216×356mm	Letter 8-1/2"×11" 216×279mm	Executive 7-1/4"×10-1/2" 184×267mm	Invoice 5-1/2"×8-1/2" 140×216mm
Tray 1	○	○	○	○	○	○	○
Tray 2	○	None	None	○	○	None	None
Tray 3	○	None	None	○	○	None	None

* Does not support Legal L size thick paper.

L: Lengthwise

Capacity

Unit: sheets

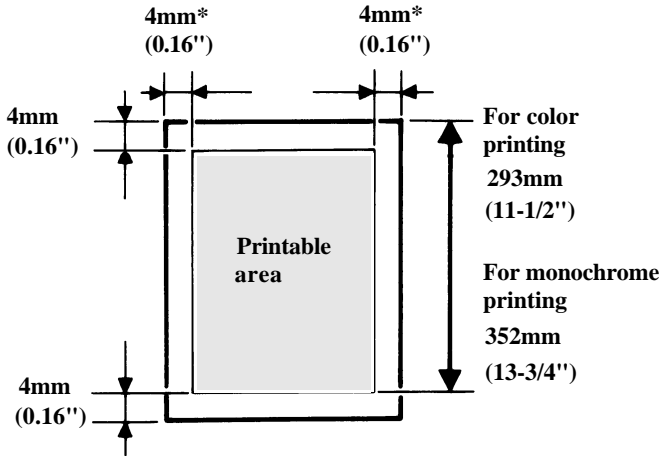
Paper feeding port	Plain paper weighing: 60 to 90 g/m ² 16 to 24 lbs	Special Paper						
		Recycled paper weighing: 60 to 90 g/m ² 16 to 24 lbs.	Transparency sheet	Labels	Letter-head	Envelopes	J-Post (Postcard) size: 100 × 148 mm 4" × 5-3/4"	Thick paper* weighing: 90 to 157 g/m ² 24 to 41-1/4 lbs.
Tray 1	150	150	50	50	50	20	50	50
Tray 2	250	250	50	None	None	None	None	None
Tray 3	250	250	50	None	None	None	None	None

* Does not support Legal L size thick paper.

L: Lengthwise

Printable Area

- Monochrome (black and white) printing can be done on paper up to 352mm (13-3/4") in length, with the exception of four, 4mm (0.16") margins.
- Color printing can be done on paper up to 293mm (11-1/2") in length, with the exception of four, 4mm (0.16") margins.



*When the resolution setting of the printer driver is set to 2400dpi, the margins of the document increase to 6mm (0.24").

Paper Supplies

Use the following precautions when handling the paper.

- Avoid storing paper in any of the following places:
 - A place subject to direct sunlight.
 - A hot place or near an open flame.
 - A humid place.
 - A dusty place.
- Store paper, which has been removed from its wrapper but not loaded into the printer tray, in a sealed plastic bag in a cool, dark place.
- Keep paper supplies out of the reach of children.

Note

- Do not use legal size thick paper (the printer does not support legal size thick paper).
 - Do not use the following types of paper to avoid reduced print quality, a misfeed or a print failure:
 - ▣ Paper already used in a thermal transfer printer or ink jet printer.
 - ▣ Paper that is too thin or too thick.
 - ▣ Paper folded, curled or torn.
 - ▣ Paper having binding holes or perforations.
 - ▣ Paper with surfaces that are too smooth or too rough or with varying surfaces.
 - ▣ Paper having special coatings on their surfaces such as carbon paper, heat-sensitive paper and pressure-sensitive paper.
 - ▣ Sheets of various sizes.
 - ▣ Paper not cut on right angles.
 - ▣ Paper bound by glue, staples or clips.
 - ▣ Paper affixed with labels which are easily removed.
 - ▣ Post cards that are warped or bent.
 - Envelopes should meet the following requirements:
 - ▣ Sharp folds and edges.
 - ▣ General mailing envelopes without seals on the glued portion.
 - ▣ Those having flaps the full width of the envelope (unacceptable if the flap is glued).
 - ▣ Wrinkle-free, no fasteners.
 - Generally, envelopes perform well, but some types may wrinkle. We strongly recommend testing any type of envelope before buying it in large amounts.
 - The Following transparencies are recommended:
 - ▣ For color printing, Minolta CF-200 (D) or 3M CG3710
 - ▣ For monochrome printing, Minolta M-100 (D) or 3M PP2500
- To purchase Minolta transparencies, please contact your local Minolta dealer, or call 1 (888) 2-MINOLTA (within the U.S.A. only).
- For more information, refer to “Loading Paper”.

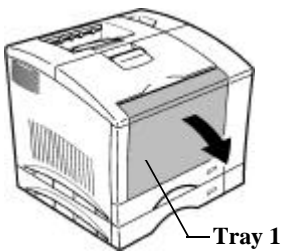
Loading Paper

Loading Plain Paper/ Recycled Paper

Caution

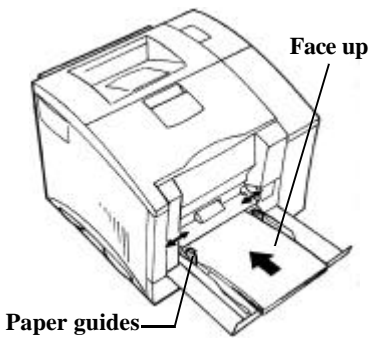
- Do not use the following types of paper as it may cause reduced print quality, a misfeed or a failure.
 - ▣ Paper already used in a thermal transfer printer or ink jet printer.
 - ▣ Paper that is too thin (under 60 g/m², 16 lbs.) or too thick (over 157 g/m², 41-1/4 lbs.).
 - ▣ Paper folded, curled or torn.
 - ▣ Paper having holes or perforations.
 - ▣ Paper of varying surfaces that are too smooth or too rough.
 - ▣ Paper with special coated surfaces such as carbon paper, heat-sensitive and pressure-sensitive paper.
 - ▣ Sheets of paper of varying sizes.
 - ▣ Paper not cut on right angles.
 - ▣ Paper bound by glue, staples or clips.

Tray 1 (multipurpose tray)



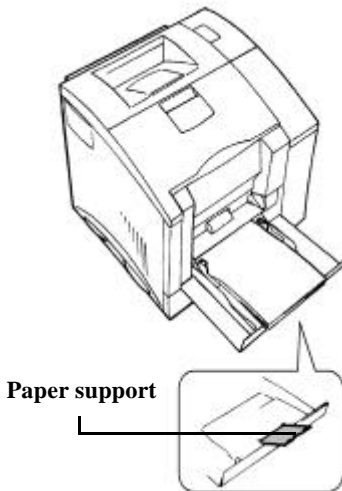
1. Swing open **Tray 1** (multipurpose tray).

Loading Paper: Loading Plain Paper/Recycled Paper



2. Adjust the **paper guides** to fit the size of the paper.

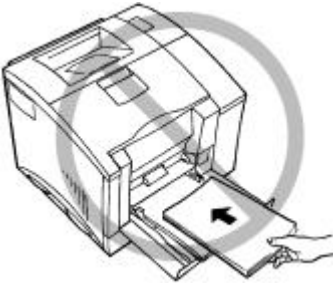
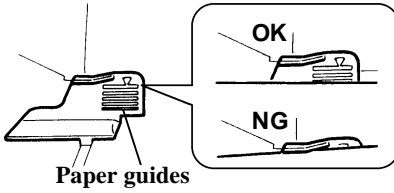
Load the paper stack on the tray, print side facing up.



3. When loading a long stack of paper, open the **paper support**.

To Be Continued ◆

Note

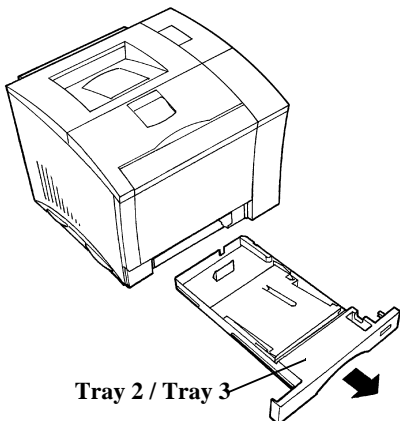


- The paper should be loaded no higher than the maximum according to the **level indicator**.

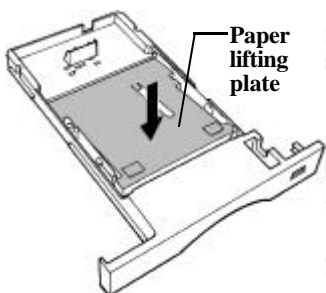
- When paper remains in the tray, do not stack more paper on top.
- Loading with force may cause a paper misfeed.
- To replenish the paper supply, take out the remaining paper from the tray and add it to the new supply. Fan the paper and load it.
- It is recommended that the paper supply be replenished only when the tray is empty.

Loading Paper: Loading Plain Paper/Recycled Paper

Tray 2: second cassette / Tray 3: third cassette (optional)



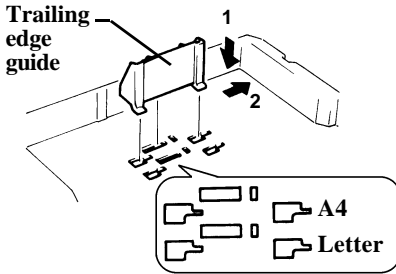
1. Slide out **Tray 2** (second cassette) or **Tray 3** (third cassette).



2. Press down on the **paper lifting plate** until it locks.

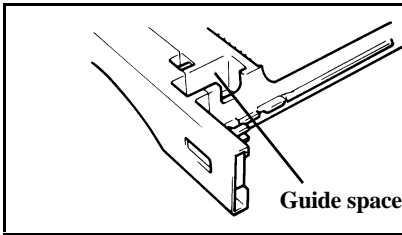
To Be Continued ◆

Loading Paper: Loading Plain Paper/Recycled Paper



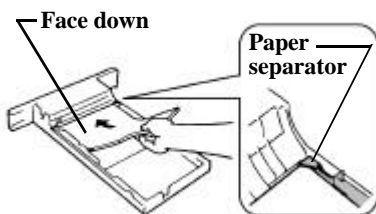
3. Install the **trailing edge guide** to fit the size of the paper to be loaded.

Note



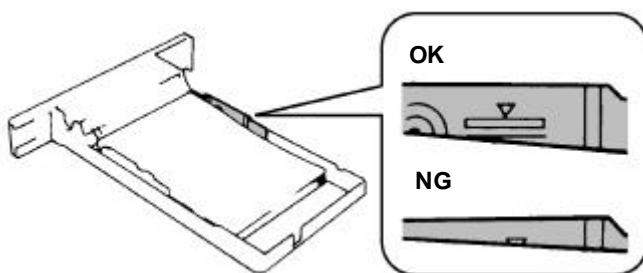
- When loading legal size paper, the **trailing edge guide** is not used. Return it to the guide space in the cassette.

Loading Paper: Loading Plain Paper/Recycled Paper

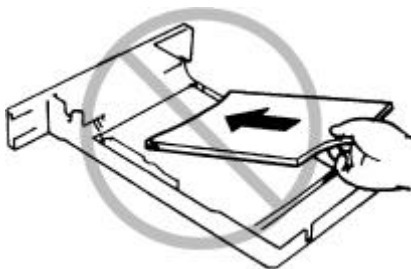


4. Load the paper stack into the cassette, print side down, under the **paper separator** and flush with the front side of the cassette.

Note



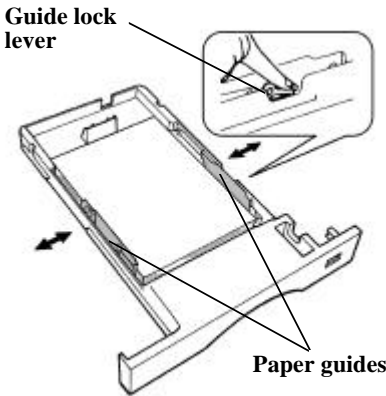
- The paper should be loaded no higher than the maximum on the **level indicator**.



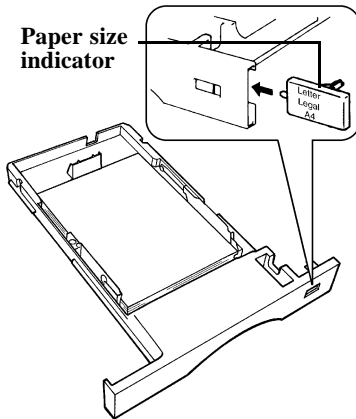
- Do not load additional paper on top of the remaining paper in the paper tray.
- Loading the paper with force may cause a paper misfeed.
- To replenish the paper supply, take out the remaining paper from the tray and add it to the new supply. Fan the paper and load.
- It is recommended that the paper supply be replenished only when the tray is empty.

To Be Continued ◀

Loading Paper: Loading Plain Paper/Recycled Paper



5. Pressing the **guide lock lever**, adjust the **paper guides** to fit the size of the paper.



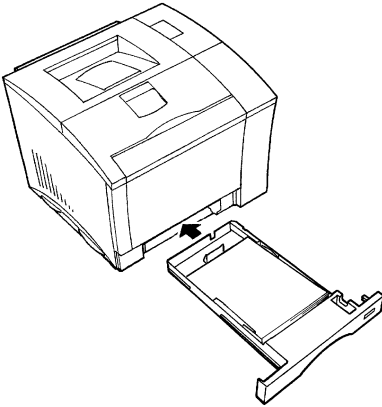
6. Set the **paper size indicator** to the size of the paper used.

Note

- If the **paper size indicator** is not reset to the corresponding size, the document may not print correctly. When you have changed the paper size, always reset the **paper size indicator**.

Loading Paper: Loading Plain Paper/Recycled Paper

7. Slide in the cassette.



Note

- Make sure that **Tray 2** is completely loaded into the printer whenever you print from **Tray 3**. Printing from **Tray 3** is not possible if **Tray 2** is not completely loaded into the printer.

Loading Transparencies and Labels

Precaution

- Labels must be loaded onto **Tray 1** (multipurpose tray) only. Do not load them onto **Tray 2** (second tray) / **Tray 3** (third cassette).
- Wearing gloves is recommended when handling transparencies to protect them from becoming soiled with fingerprints and smears. Dirty transparencies may result in an unsatisfactory printed image.
- Do not use the following types of paper as they may cause reduced print quality, a misfeed or a failure.

- ▣ Labels which are easily or partially peeled

- ▣ Labels which are leaking adhesives

It is highly recommended to test any label's compatibility with the printer before purchasing it in large quantities.

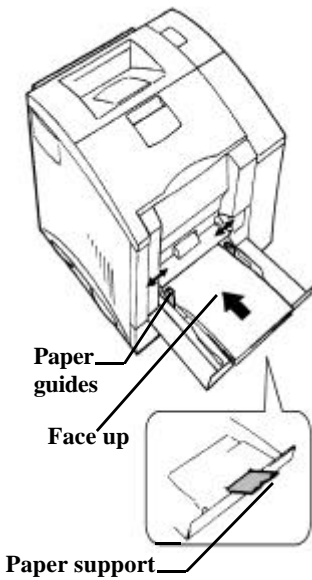
- Multiple transparencies or labels can be printed continuously but the feeding capability may be affected by the materials used and the operating environment. It may be necessary to load them individually.
- The following transparency types are recommended:
 - ▣ For color printing, Minolta CF-200 (D) or 3M CG3710
 - ▣ For monochrome printing, Minolta M-100 (D) or 3M PP2500

To purchase Minolta transparencies, please contact your local Minolta dealer, or call 1 (888) 2-MINOLTA (within the U.S.A. only).

Tray 1 (multipurpose tray)



1. Swing open **Tray 1** (multipurpose tray).



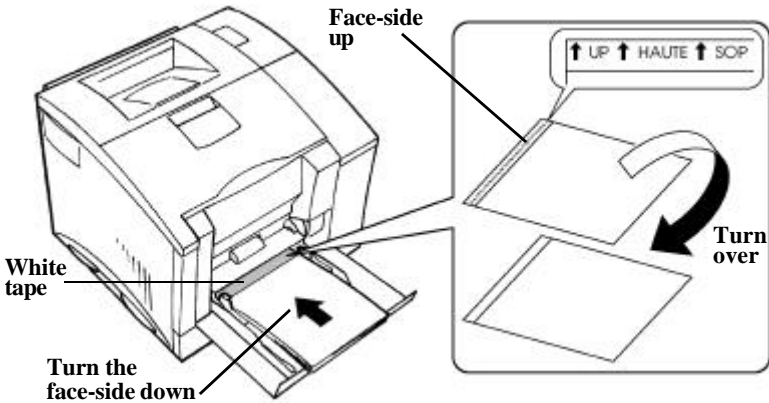
2. Adjust the **paper guides** to fit the size of the transparency or label sheets to be loaded.

When loading a stack of long paper, open the **paper support**.

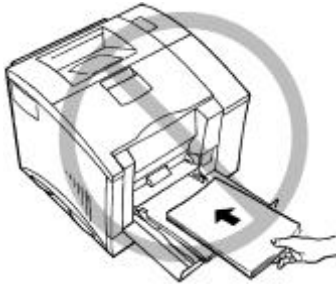
Load the stack of transparencies or labels on the tray, print side up.

To Be Continued ◆

Note



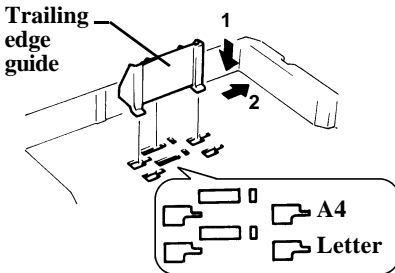
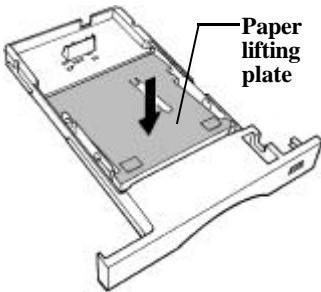
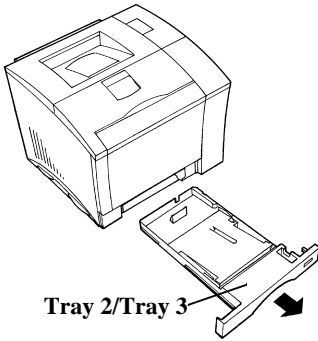
- Load the recommended transparencies (Minolta CF-200 (D), 3M CG3710, Minolta CF-100 (D) or 3M PP2500) into the tray so that their front sides are **face-side down**.



- Do not load more than 50 sheets on the tray.
- Do not load additional labels or transparencies on top of those remaining in the tray.
- Loading with force may cause a misfeed.
- To replenish the transparency or label sheets, take out those that remain in the tray and add them to the new supply. Fan the transparencies or labels and load them.
- It is recommended that the cassette be replenished only when it is empty.

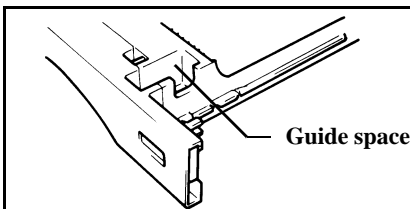
MEMO

Tray 2: second cassette / Tray 3: third cassette (optional)



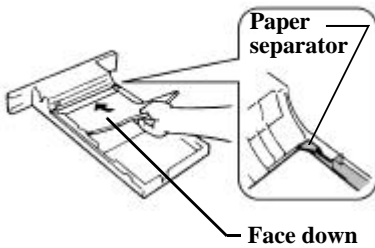
1. Slide out **Tray 2** (second cassette) or **Tray 3** (third cassette).
2. Press down on the **paper lifting plate** until it locks.
3. Install the **trailing edge guide** to fit the size of the transparencies to be loaded.

Note



- When loading Legal-size transparencies, the **trailing edge guide** is not used. Return it to the guide space in the cassette.

Loading Paper: Loading Transparencies and Labels



4. Load the transparency stack into the cassette, print side down, under the **paper separator**, and flush with the front side of the cassette.

Note

The diagram illustrates the correct orientation for loading transparencies. A callout box labeled "Face-side up" contains the text "↑ UP ↑ HAUTE ↑ SOP". Below this, a hand is shown placing a transparency into the cassette. A callout box points to the top surface of the transparency with the text "The face of the transparency should be facing up".

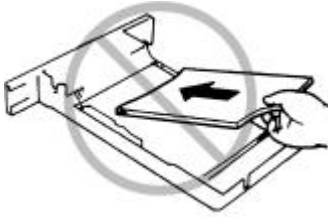
Below this, a diagram shows two loading scenarios. The top one is labeled "OK" and shows a transparency being loaded up to a "maximum level indicator" (a small triangle on the cassette). The bottom one is labeled "NG" and shows a transparency being loaded higher than the indicator. Below this, a callout box points to the "maximum level indicator" on the cassette.

- Load the recommended transparencies (Minolta CF 200-(D), 3MCG3710, Minolta CF-100 (D) or 3M PP2500) into the cassette so that their front sides are **facing up**.
- The transparencies should be loaded no higher than the **maximum level indicator**.

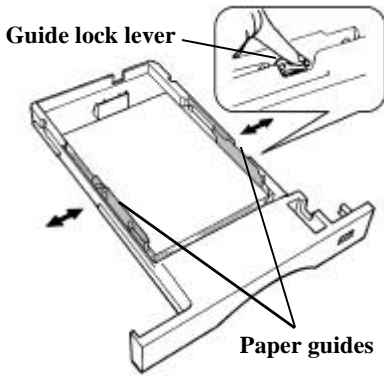
- Do not load additional transparencies on top of those remaining in the tray.
- Loading the transparencies with force may cause a misfeed.

To Be Continued ◆

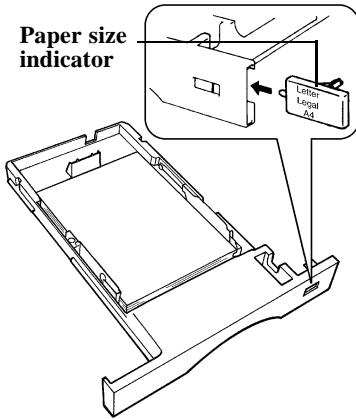
Note



- To replenish the transparencies, take out those that remain in the tray and add them to the new supply. Straighten the edges on a level surface.
- It is recommended that the cassette be replenished only when it is empty.



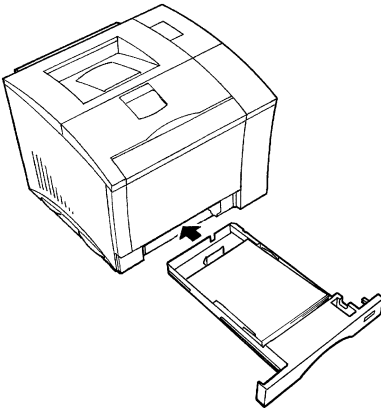
5. While pressing the **paper guide lock lever**, adjust the **paper guides** to the size of the transparencies.



6. Set the **paper size indicator** to fit the size of the transparencies to be used.

Note

- If the **paper size indicator** is not reset to the corresponding size, the document may not print correctly. When you have changed the paper size, always reset the **paper size indicator**.



7. Slide in the cassette.

Note

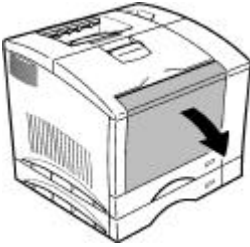
- Make sure that **Tray 2** is completely loaded into the printer whenever you print from **Tray 3**. Printing from **Tray 3** is not possible if **Tray 2** is not completely loaded into the printer.

Loading Special Paper (Letterhead/ Envelopes/ Postcards/ Thick Paper)

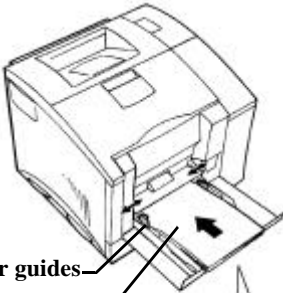
Precaution

- Do not use legal L size thick paper (the printer does not support legal size thick paper).
- Do not use the following types of paper to avoid reduced print quality, a misfeed or a print failure.
 - ▣ Paper already used in a thermal transfer printer or ink jet printer.
 - ▣ Paper that is too thin or too thick.
 - ▣ Paper folded, curled or torn.
 - ▣ Paper having binding holes or perforations.
 - ▣ Paper with surfaces that are too smooth or too rough or with varying surfaces.
 - ▣ Paper having special coatings on their surfaces such as carbon paper, heat-sensitive paper and pressure-sensitive paper.
 - ▣ Sheets of various sizes.
 - ▣ Paper not cut on right angles.
 - ▣ Paper bound by glue, staples or clips.
 - ▣ Paper affixed with labels which are easy to peel.
 - ▣ Post cards that are warped or bent.
- Envelopes should meet the following requirements:
 - ▣ Sharp folds and edges.
 - ▣ General mailing envelopes without seals on the glued portion.
 - ▣ Those having flaps the full width of the envelope (unacceptable if the flap is glued).
 - ▣ Wrinkle-free, no fasteners.
- Generally, envelopes perform well, but some types may wrinkle. We strongly recommend testing any type of envelope before buying it in large amounts.
- Multiple documents can be printed continuously on specialty paper but the feeding capability may be affected by the materials used and the operating environment. It may be necessary to load them individually.

Tray 1 (multipurpose tray)



1. Swing open **Tray 1** (multipurpose tray).



Paper guides

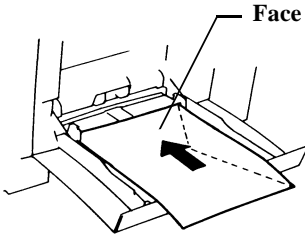
Face up

Paper support

2. Adjust the **paper guides** to fit the size of the paper.

To load a stack of long paper, open the **paper support**.

Load the paper stack on the tray, print side facing up.



3. When printing envelopes, fold their flaps securely and load them on the tray with their flap side down.

When printing letterhead, load it on the tray with the header at the take-up end.

Note

• Generally, envelopes take to printing well but some types may wrinkle. We strongly recommend testing any type of envelope with the printer before buying it in large quantities.

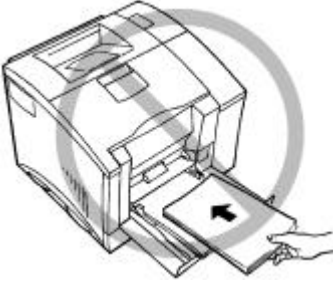
To Be Continued ◆

Loading Paper: Loading Special Paper



4. When printing paper, load it on the tray after smoothing any folds or wrinkles.

Note



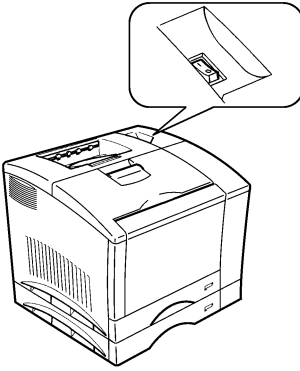
- Do not load more than 50 sheets on the tray at one time.
- Do not load additional sheets of paper on top of those remaining in the tray.
- If you load them forcibly, it may cause a misfeed.


- To replenish the tray, take out the remaining paper and add it to the new supply. Fan the paper and load it into the cassette.
- It is recommended that the cassette be replenished only when it is empty.

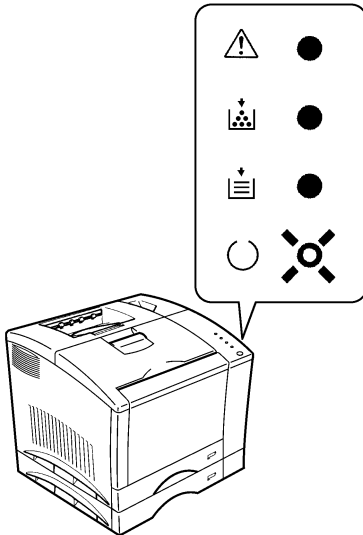
MEMO

Printing

Paper can be fed to the printer from either **Tray 1** (multi- purpose tray), **Tray 2** (second cassette) or **Tray 3** (third cassette). This will allow you to use the paper port that best suits your application.




1. Turn the printer on.
See “Turning the Printer ON and OFF”  p. 2-17

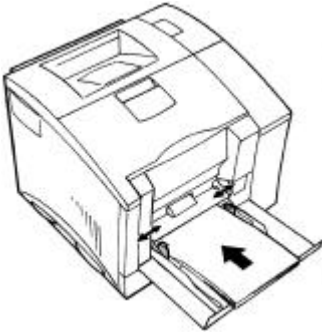


Make sure that the “Ready” LED pattern is displayed.

2. Load the paper.


Tray 1 (multipurpose tray)

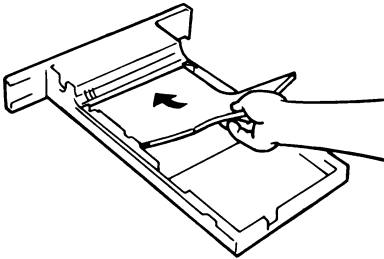
 pp. 2-23, 2-32, 2-40



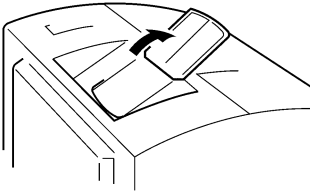
Tray 2 (second cassette) /

Tray 3 (third cassette)

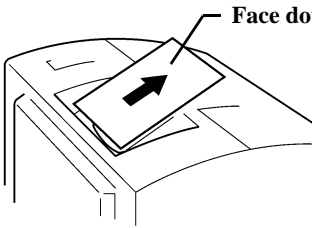
 pp. 2-26, 2-35



3. To print long paper, open the **paper support** in the **output tray**.



To Be Continued 



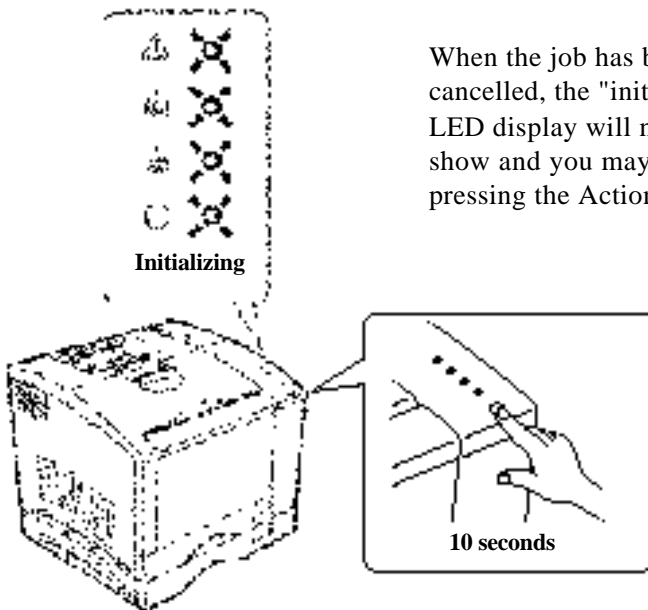
4. Input the print command from the host computer. The printed paper feeds out onto the **output tray** with the image face down.

Note

- The output tray can hold up to 250 sheets of paper. Be careful not to exceed this limit when making multiple prints.

Canceling a Print Job Directly at the Printer

All print jobs can be cancelled directly at the printer by pressing the Action key continuously for 10 seconds.



When the job has been cancelled, the "initializing" LED display will no longer show and you may stop pressing the Action key.

Chapter

*Printer Driver and
Status Display*

3

Using the Printer Driver Under Windows 95/ Windows 98

The printer driver allows you to control various printer parameters from your computer. The following section provides a brief description of the printer settings that you can make. For detailed information regarding the items contained in the tabs, please refer to the printer driver's online help.

Note

Memory:

In order to achieve the best results for your printed documents, your computer should be equipped with at least 32MB of RAM. Additional RAM beyond the recommended 32MB will allow your printer to provide you with the high standards of performance for which it was designed. If your computer's current memory capacity is less than 32MB, the installation of additional memory is highly recommended.

Displaying the Printer Driver Window

1. Click the **Start** button, **Settings**, and then **Printers** to display the **Printers** dialog box.
2. Click **Minolta Color PageWorks/Pro L** to highlight it, and then select **Properties** from the **File** menu.



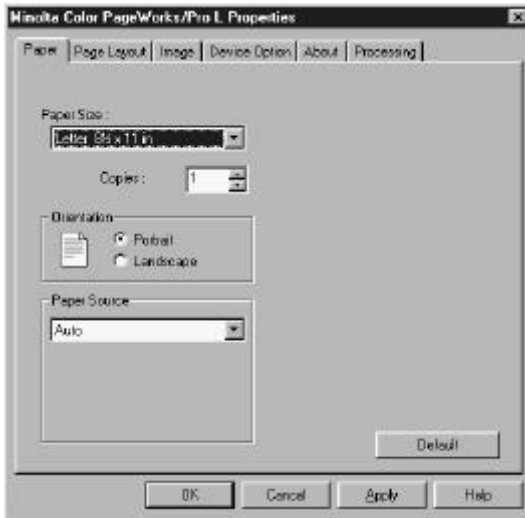
Exiting the Printer Driver

After you are finished using the printer driver, you can exit it either by clicking the **OK** or **Cancel** button, or by clicking the window close button in the upper-right corner of the window.

Using the 32-bit SuperDriver Setup Dialog

The 6 tabs of the driver are contained in the 32-bit SuperDriver Setup tab. Click on one of the tabs and enter settings for the items contained in the tab.

The following sections show the contents of each of the 6 tabs and provides brief explanations for each available setting. Refer to the driver's online help for full details on each setting.



Common Buttons

The driver consists of 6 tabs: Paper, Page Layout, Image, Device Option, About and Processing. The following buttons appear at the bottom of each tab.

OK

Click to exit the dialog, saving any changes made.

Cancel

Click to exit the dialog without saving any changes made.

Apply

Click to save any changed settings without closing the dialog.

Help

Click to view online help.

Choosing Menu Settings

The following standard Windows procedures can be used when making settings in the printer driver's menu pages.

- Clicking an option button or name
- Clicking a check box
- Dragging the scroll box on a scroll bar
- Clicking a drop-down list box and then clicking on an item to select it
- Holding down the [Alt] key and typing the underlined character that represents a setting

See the documentation that comes with Windows 95 and Windows 98 for details on these and other operations.

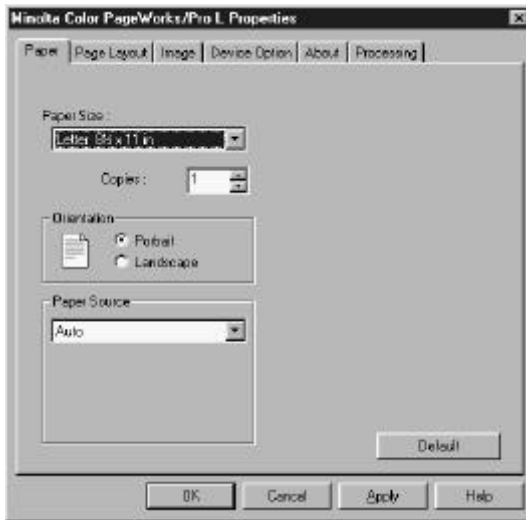
MEMO

Driver Settings

This section describes all of the settings you can make with this printer driver.

Paper

The **Paper** tab is the opening dialog of the printer driver. It contains functions that effect the format and output of your printed documents.



Paper Size

The various sizes of paper that are supported by your printer are displayed in the drop-down list. Select the appropriate size or add a custom size.

Paper

- Letter (8-1/2 × 11 inches)
- Legal (8-1/2 × 14 inches)
- Invoice (5-1/2 × 8-1/2 inches)
- Executive (7-1/4 × 10-1/2 inches)
- A4 (210 × 297 mm)
- A5 (148 × 210 mm)
- JIS B5 (182 × 257 mm)
- J-Post (100 × 148 mm)

Envelope

- Envelope Com-10 (4-1/8 × 9-1/2 inches)
- Envelope DL (110 × 220 mm)
- Envelope C5 (162 × 229 mm)
- Envelope Monarch (3-7/8 × 7-1/2 inches)

Copies

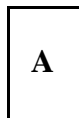
This item specifies the number of copies to be printed. You can specify any value from 1 to 999.

Orientation

This setting allows you to determine how your document is positioned on the printed page.

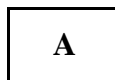
Portrait

Portrait documents are printed lengthwise (vertically), relative to the page.

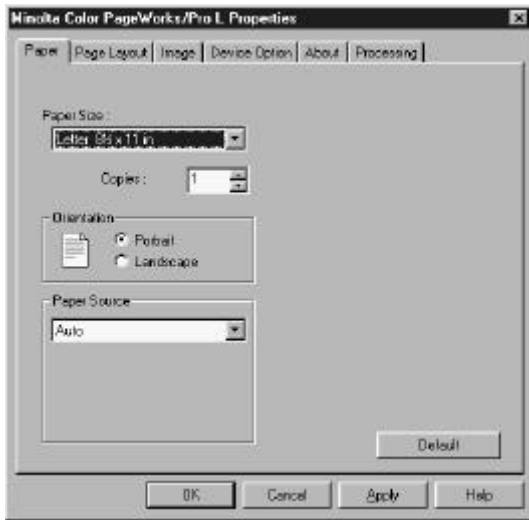


Landscape

Landscape documents are printed widthwise (horizontally), relative to the page.



To Be Continued ◆



Paper Source

The **Paper Source** item specifies the tray from which paper is fed from the printer. To change this setting, just select the desired paper source from the drop-down list. If the desired tray is an option and does not appear as a paper source, make sure that it has been added in the **Device Option** tab.

- Auto*¹
- Tray1
- Tray2
- Tray3 (option)
- Manual*²
- Tray1 (Transparent)
- Tray1 (Thick paper)
- Tray1 (Envelope)
- Tray2 (Transparent)
- Tray3 (Transparent)
- Manual (Transparent)
- Manual (Thick paper)
- Manual (Envelope)

***1: Auto**

- The printer automatically selects the size of paper that is specified in the Paper Size setting from either Tray2 or Tray3.
- When Auto is selected and either Tray2 or Tray3 runs out of paper, the printer will automatically go to the next tray if it contains the same size and type of paper.

Note

- Tray1 does not support the Auto mode, nor is it selected during auto tray switching.

***2: Manual**

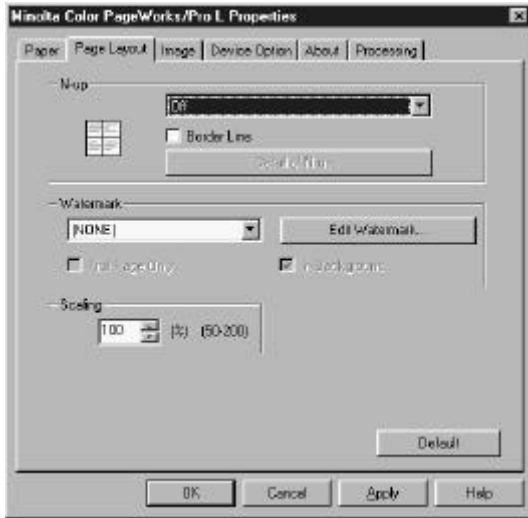
The manual feed mode allows you to review each output document by feeding individual sheets, one at a time, into the printer.

When manual is selected, the “**wait action**” message will be displayed. Printing will take place when a piece of paper is set onto Tray1 and the Action key is pressed.

Default

Click the **Default** button to reset the functions of the tab to their original values.

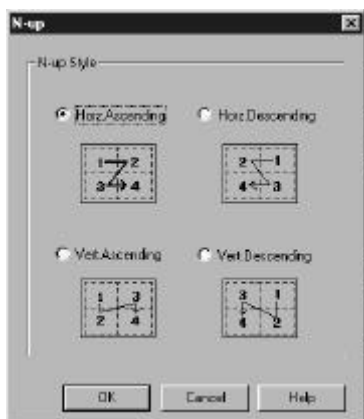
Page Layout



N-up

The N-up settings allow you to print multiple documents on a single page. Click on the drop-down list to view the possible selections.

- Off: This default setting specifies one document per sheet of paper.
- 2 up: This setting will print two documents onto one sheet of paper.
- 4 up: This setting will print four documents onto one sheet of paper.
- 6 up: This setting will print six documents onto one sheet of paper.
- 9 up: This setting will print nine documents onto one sheet of paper.
- 16 up: This setting will print 16 documents onto one sheet of paper.



You can place a border between N-up documents by checking the **Border line** box. Click on the **Detail of N-up...** button to open a dialog that will allow you to specify the order in which N-up documents are placed on the page. There are four patterns to choose from: horizontal ascending, horizontal descending, vertical ascending and vertical descending.

Note

- The **Scaling** feature of the printer driver cannot be used when printing **N-up** documents.

To Be Continued ◆

Watermark

Watermarks are placed on a document to quickly alert the reader to the nature of its content. For example: CONFIDENTIAL, DRAFT, URGENT, etc.

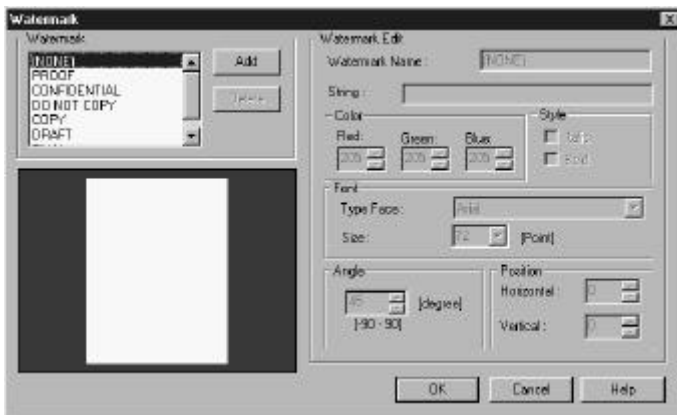
Through the driver, you can specify several guidelines that effect the style, content and placement of watermarks.

The **Watermark** drop-down list catalogs the menu of watermarks that have been entered into the printer's memory. You can add and delete watermarks from this list through the **Watermark** pop-up dialog.

Watermarks can be specified to appear on the first page only of a multi-page document by clicking the **First Page only** box. Otherwise, a watermark that is specified to appear will be placed on every page of the multi-page document.

When the **In Background** box is checked, watermarks will appear as shadow-text behind the actual content of the document. When the **In Background** box is not checked, watermarks are superimposed over the actual content of the document.

Watermark (pop-up dialog)



To open the dialog, click the **Edit Watermark** button.

The dialog contains the watermark drop-down list that appeared in the **Page Layout** tab. Through the **Watermark** pop-up dialog, you can add and remove watermarks from the list.

To Add a Watermark

Click the **Add** button to open the **Watermark Edit** dialog. The following functions and settings are controlled in the dialog.

Watermark Name

The name that you wish to use to identify the watermark in the **Watermark** list with is entered here.

String

The contents of the watermark that you wish to create are entered here.

Color

Adjust the hues for red, green and blue for the watermark through these settings.

Style

These settings can be used to specify the style of the watermark's font.

Font

The typeface and point size of the watermark are specified here.

Angle

Rotate the angle of the watermark's placement through the value specified in this box.

Position

Adjust the vertical and horizontal values to position the watermark on the document.

To Remove a Watermark from the List

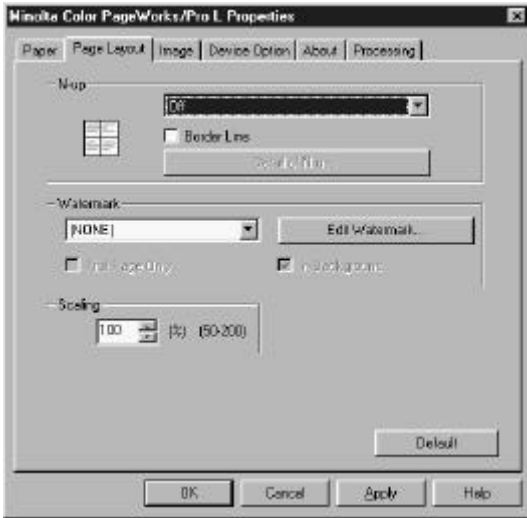
Select the watermark that you wish to remove from the list, click the **Delete** button and click **OK**.

To Edit a Watermark

To edit a watermark that appears on the list, click the **Edit Watermark** button. The **Watermark Edit** dialog will appear.

Refer to the **Add Watermark** section for details regarding the contents of the **Watermark Edit** dialog.

To Be Continued ◆



Scaling

Note

- The **Scaling** feature of the printer driver cannot be used when printing **N-up** documents.

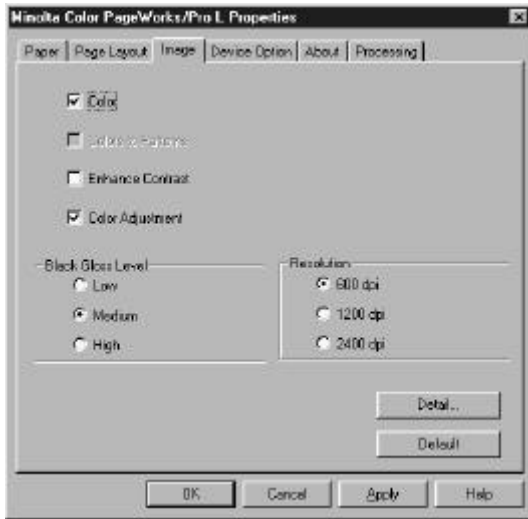
You can adjust the area of a document through the **Scaling** feature. The maximum percentage of enlargement is 200. The maximum percentage of reduction is 50.

Default

Click the **Default** button to reset the functions of the tab to their original values.

MEMO

Image



The **Image** tab provides the controls for specifying the format of data transfer from the host computer as well as the print resolution.

Color

Enable this setting when generating documents that contain color images or text. Legal paper or larger sizes are not supported when this setting is enabled.

Colors to Patterns

This setting is optimal for printing documents that will be sent via facsimile. The **Color** setting is unavailable when this setting is enabled.

Enhance Contrast

This setting enhances the definition between dark and light.

Color Adjustment

This setting empowers the printer to adjust hues to maintain the integrity of a document's onscreen image.

Black Gloss Level

These settings control the texture of printed black images.

The **Low** setting produces a flat finish.

Medium, the default setting, produces a standard finish that should be optimal for most applications.

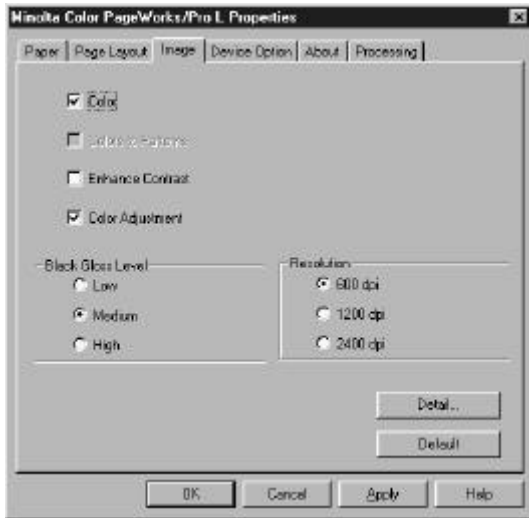
The **High** setting produces a glossy finish that is appropriate for high quality, high-resolution document printing.

Resolution

The resolution setting determines the dots per inch (dpi) used when a document is printed. Document printing quality will increase as the value of dpi increases. Please note however, that printing time may also increase when high-resolution settings are selected. **Resolution** settings include:

- **600 dpi**
- **1200 dpi**
- **2400 dpi**

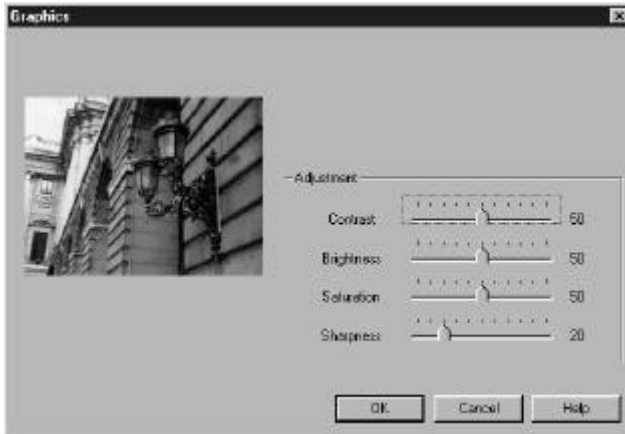
To Be Continued ◆



Detail

Click this button to open the **Graphics** pop-up dialog.

Graphics (pop-up dialog)



Adjustment

The sliders can be used to control the definition, tones and lighting of an image in terms of **Contrast**, **Brightness**, **Saturation** and **Sharpness**. Usually, the median values toward the center of the bars will provide the best display. To fine tune these settings, click and hold on the sliders in order to make left and right adjustments.

Value changes are reflected in the view window as you make them.

The factory defaults for these settings are 50 for **Contrast**, 50 for **Brightness**, 0 for **Saturation** and 20 for **Sharpness**.

Default

Click the **Default** button to reset the functions of the tab to their original values.

Device Option

The auxiliary accessories that are available for installation are managed from this tab.



To add an available option from the **Installable Options** list to the **Installed Options** list, select the option and click the **Add** button.

The **Installed Options** list catalogs the optional accessories that have been added to your printer.

To remove an option from the **Installed Options** list, select the option and click the **Remove** button.

Removed options can be reinstalled using the previous procedure.

About

This tab displays version and copyright information about this printer driver.



Processing



When **Show Status** is checked, a pop-up dialog will appear that displays the printing status of jobs as they are output by the printer.

Using the Printer Driver Under Windows NT 4.0

The features of the printer driver allow you to control a wide variety of printer parameters from your computer. The following sections provide an overview of the five tabs of the printer driver. For detailed information regarding the items contained in the tabs, please refer to the printer driver's online help.

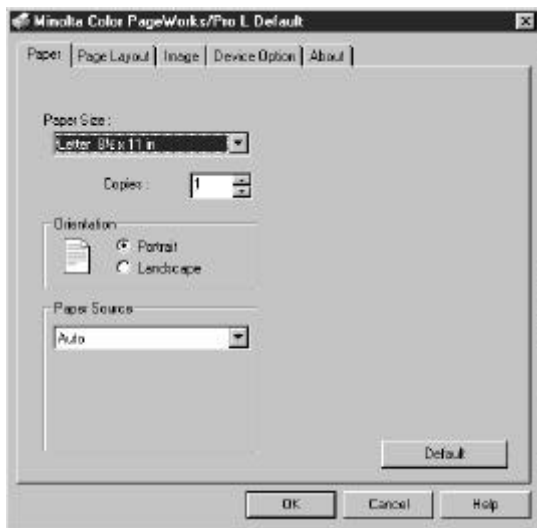
Note

Memory:

In order to achieve the best results for your printed documents, your computer should be equipped with at least 64MB of RAM. Additional RAM beyond the recommended 64MB will allow your printer to provide you with the high standards of performance for which it was designed. If your computer's current memory capacity is less than 64MB, the installation of additional memory is highly recommended.

Displaying the Printer Driver Window

1. Click the **Start** button, **Settings**, and then **Printers** to display the **Printers** dialog box.
2. Select the **Minolta Color PageWorks/Pro L** driver icon by clicking on it with the mouse pointer. Next, open the file menu and click on the **Document Defaults...** item.



Exiting the Printer Driver

You can exit the printer application by clicking the **OK** or **Cancel** button at the bottom of any of the application's five main screens or by clicking the window close button (**X**) in the upper-right corner of the window.

Common Buttons

The following buttons appear at the bottom of each tab.

OK

Click to exit the **Properties** dialog, saving any changes made.

Cancel

Click to exit the **Properties** dialog without saving any changes made.

Help

Click to view online help.

Choosing Menu Settings

The following standard Windows procedures can be used when making settings in the printer driver's menu pages.

- Clicking an option button or name
- Clicking a check box
- Dragging the scroll box on a scroll bar
- Clicking a drop-down list box and then clicking on an item to select it

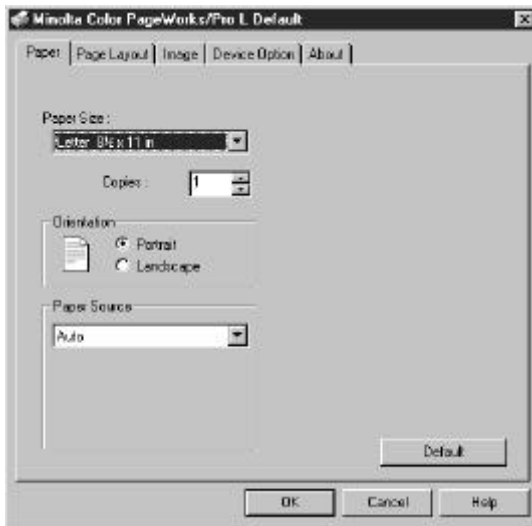
For details, refer to your user's documentation for operating Windows NT.

Driver Settings

This section describes all of the settings you can make with this printer driver.

Paper

The **Paper** tab is the opening dialog of the printer driver. It contains functions that effect the format and output of your printed documents.



Paper Size

The various sizes of paper that are supported by your printer are displayed in the drop-down list. Select the appropriate size or add a custom size.

Paper

- **Letter** (8-1/2 × 11 inches)
- **Legal** (8-1/2 × 14 inches)
- **Invoice** (5-1/2 × 8-1/2 inches)
- **Executive** (7-1/4 × 10-1/2 inches)
- **A4** (210 × 297 mm)
- **A5** (148 × 210 mm)
- **JIS B5** (182 × 257 mm)
- **J-Post** (100 × 148 mm)

Envelope

- **Envelope Com-10** (4-1/8 × 9-1/2 inches)
- **Envelope DL** (110 × 220 mm)
- **Envelope C5** (162 × 229 mm)
- **Envelope Monarch** (3-7/8 × 7-1/2 inches)

Copies

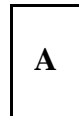
This item specifies the number of copies to be printed. You can specify any value from 1 to 999.

Orientation

This setting allows you to determine how your document is positioned on the printed page.

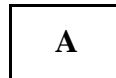
Portrait

Portrait documents are printed lengthwise (vertically), relative to the page.

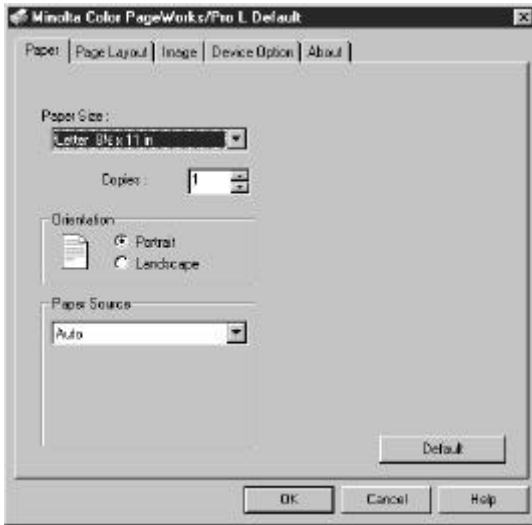


Landscape

Landscape documents are printed widthwise (horizontally), relative to the page.



To Be Continued ◆



Paper Source

The **Paper Source** item specifies the tray from which paper is fed from the printer. To change this setting, just select the desired paper source from the drop-down list. If the desired tray is an option and does not appear as a paper source, make sure that it has been added in the **Device Option** tab.

- Auto*¹
- Tray1
- Tray2
- Tray3 (option)
- Manual*²
- Tray1 (Transparent)
- Tray1 (Thick paper)
- Tray1 (Envelope)
- Tray2 (Transparent)
- Tray3 (Transparent)
- Manual (Transparent)
- Manual (Thick paper)
- Manual (Envelope)

***1: Auto**

- The printer automatically selects the size of paper that is specified in the Paper Size setting from either Tray2 or Tray3.
- When Auto is selected and either Tray2 or Tray3 runs out of paper, the printer will automatically go to the next tray if it contains the same size and type of paper.

Note

- Tray1 does not support the Auto mode, nor is it selected during auto tray switching.

***2: Manual**

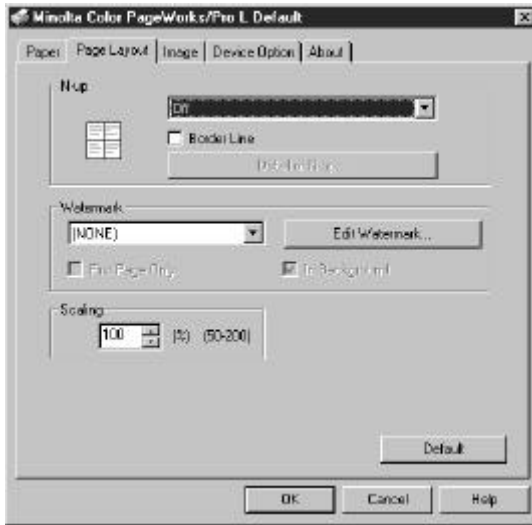
The manual feed mode allows you to review each output document by feeding individual sheets, one at a time, into the printer.

When manual is selected, the “**wait action**” message will be displayed. Printing will take place when a piece of paper is set onto Tray1 and the Action key is pressed.

Default

Click the **Default** button to reset the functions of the tab to their original values.

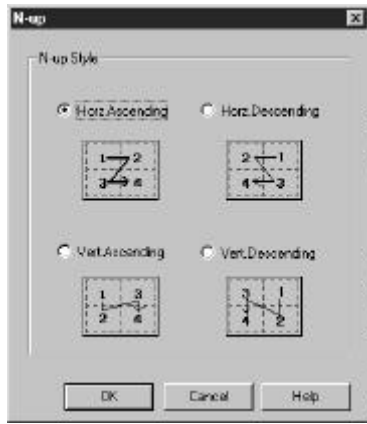
Page Layout



N-up

The N-up settings allow you to print multiple documents on a single page. Click on the drop-down list to view the possible selections.

- Off: This default setting specifies one document per sheet of paper.
- 2 up: This setting will print two documents onto one sheet of paper.
- 4 up: This setting will print four documents onto one sheet of paper.
- 6 up: This setting will print six documents onto one sheet of paper.
- 9 up: This setting will print nine documents onto one sheet of paper.
- 16 up: This setting will print 16 documents onto one sheet of paper.



You can place a border between N-up documents by checking the **Border line** box. Click on the **Detail of N-up...** button to open a dialog that will allow you to specify the order in which N-up documents are placed on the page. There are four patterns to choose from: horizontal ascending, horizontal descending, vertical ascending and vertical descending.

Note

- The **Scaling** feature of the printer driver cannot be used when printing **N-up** documents.

To Be Continued ◆

Watermark

Watermarks are placed on a document to quickly alert the reader to the nature of its content. For example: CONFIDENTIAL, DRAFT, URGENT, etc.

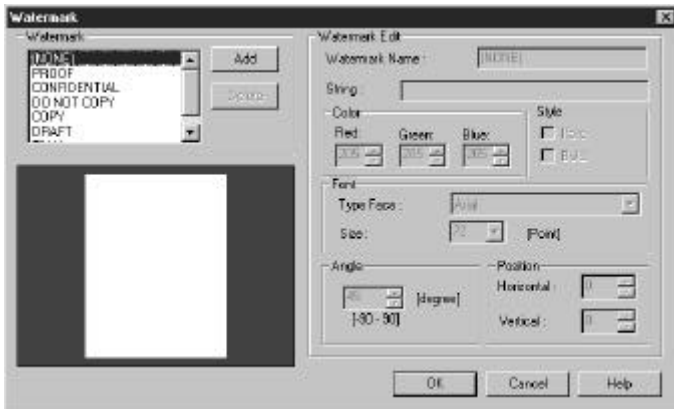
Through the driver, you can specify several guidelines that effect the style, content and placement of watermarks.

The **Watermark** drop-down list catalogs the menu of watermarks that have been entered into the printer's memory. You can add and delete watermarks from this list through the **Watermark** pop-up dialog.

Watermarks can be specified to appear on the first page only of a multi-page document by clicking the **First Page only** box. Otherwise, a watermark that is specified to appear will be placed on every page of the multi-page document.

When the **In Background** box is checked, watermarks will appear as shadow-text behind the actual content of the document. When the **In Background** box is not checked, watermarks are superimposed over the actual content of the document.

Watermark (pop-up dialog)



To open the dialog, click the **Edit Watermark** button.

The dialog contains the watermark drop-down list that appeared in the **Page Layout** tab. Through the **Watermark** pop-up dialog, you can add and remove watermarks from the list.

To Add a Watermark

Click the **Add** button to open the **Watermark Edit** dialog. The following functions and settings are controlled in the dialog.

Watermark Name

The name that you wish to use to identify the watermark in the **Watermark** list with is entered here.

String

The contents of the watermark that you wish to create are entered here.

Color

Adjust the hues for red, green and blue for the watermark through these settings.

Style

These settings can be used to specify the style of the watermark's font.

Font

The typeface and point size of the watermark are specified here.

Angle

Rotate the angle of the watermark's placement through the value specified in this box.

Position

Adjust the vertical and horizontal values to position the watermark on the document.

To Remove a Watermark from the List

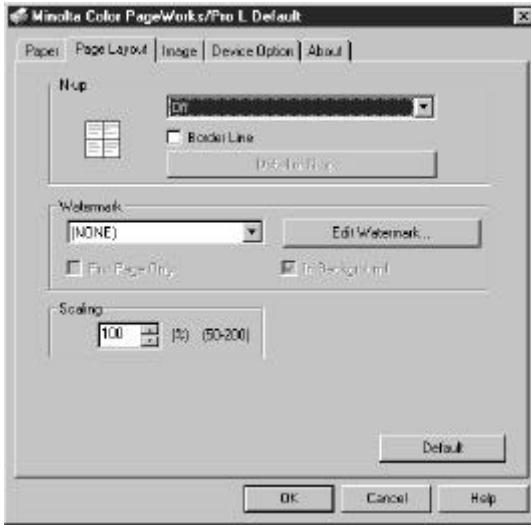
Select the watermark that you wish to remove from the list, click the **Delete** button and click **OK**.

To Edit a Watermark

To edit a watermark that appears on the list, click the **Edit Watermark** button. The **Watermark Edit** dialog will appear.

Refer to the **Add Watermark** section for details regarding the contents of the **Watermark Edit** dialog.

To Be Continued ◆



Scaling

Note

- The **Scaling** feature of the printer driver cannot be used when printing **N-up** documents.

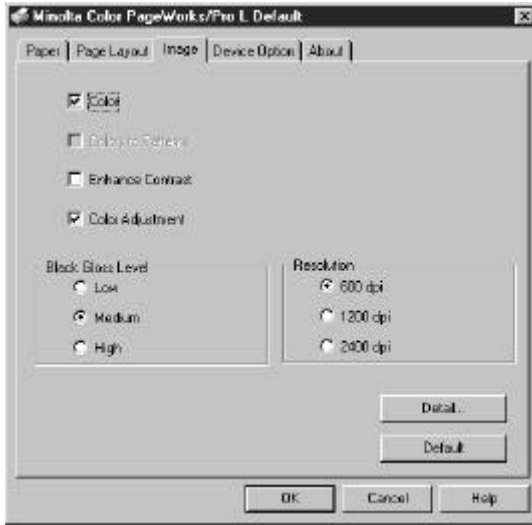
You can adjust the area of a document through the **Scaling** feature. The maximum percentage of enlargement is 200. The maximum percentage of reduction is 50.

Default

Click the **Default** button to reset the functions of the tab to their original values.

MEMO

Image



The **Image** tab provides the controls for specifying the format of data transfer from the host computer as well as the print resolution.

Color

Enable this setting when generating documents that contain color images or text. Legal paper or larger sizes are not supported when this setting is enabled.

Colors to Patterns

This setting is optimal for printing documents that will be sent via facsimile. The **Color** setting is unavailable when this setting is enabled.

Enhance Contrast

This setting enhances the definition between dark and light.

Color Adjustment

This setting empowers the printer to adjust hues to maintain the integrity of a document's onscreen image.

Black Gloss Level

These settings control the texture of printed black images.

The **Low** setting produces a flat finish.

Medium, the default setting, produces a standard finish that should be optimal for most applications.

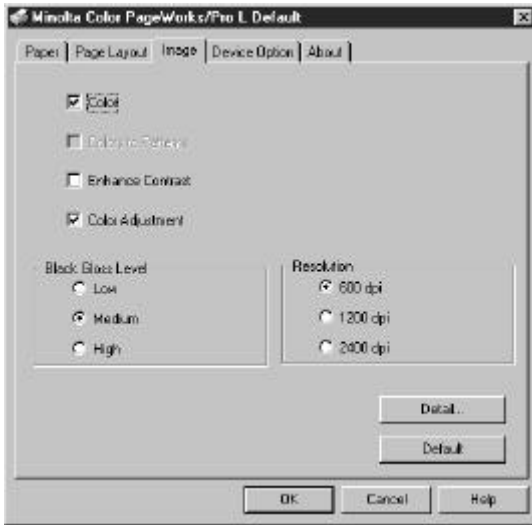
The **High** setting produces a glossy finish that is appropriate for high quality, high-resolution document printing.

Resolution

The resolution setting determines the dots per inch (dpi) used when a document is printed. Document printing quality will increase as the value of dpi increases. Please note however, that printing time may also increase when high-resolution settings are selected. **Resolution** settings include:

- **600 dpi**
- **1200 dpi**
- **2400 dpi**

To Be Continued ◆



Detail

Click this button to open the **Graphics** pop-up dialog.

Graphics (pop-up dialog)



Adjustment

The sliders can be used to control the definition, tones and lighting of an image in terms of **Contrast**, **Brightness**, **Saturation** and **Sharpness**. Usually, the median values toward the center of the bars will provide the best display. To fine tune these settings, click and hold on the sliders in order to make left and right adjustments.

Value changes are reflected in the view window as you make them.

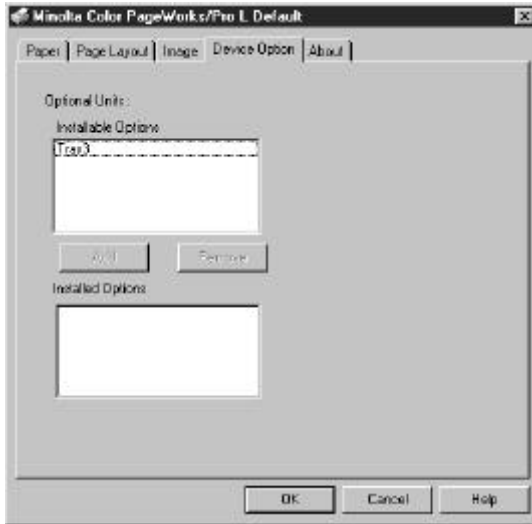
The factory defaults for these settings are 50 for **Contrast**, 50 for **Brightness**, 0 for **Saturation** and 20 for **Sharpness**.

Default

Click the **Default** button to reset the functions of the tab to their original values.

Device Option

The auxiliary accessories that are available for installation are managed from this tab.



To add an available option from the **Installable Options** list to the **Installed Options** list, select the option and click the **Add** button.

The **Installed Options** list catalogs the optional accessories that have been added to your printer.

To remove an option from the **Installed Options** list, select the option and click the **Remove** button.

Removed options can be reinstalled using the previous procedure.

About

This tab displays version and copyright information about this printer driver.



Using the Printer Status Display

The Printer Status Display provides you with a variety of useful information about the current status of your printer. It is installed automatically when you install the printer driver.

Note

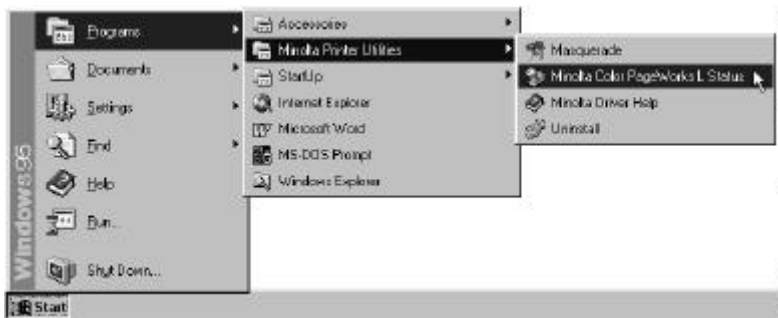
- The Status Display allows you to monitor the operating status of the printer only when the printer is locally (directly) connected to the host computer via a parallel interface cable.
- Registration of the Status Display in the StartUp directory of Windows 95, Windows 98 or Windows NT 4.0 is highly recommended. For a detailed explanation for registering the Status Display, see page 103 of the Set-up Guide.

Opening the Printer Status Display

Use the procedure below to open the Printer Status Display.

To open the Printer Status Display

Click **Start**, point to **Programs**, point to **Minolta Printer Utilities**, and then click **Minolta Color PageWorks L Status**.

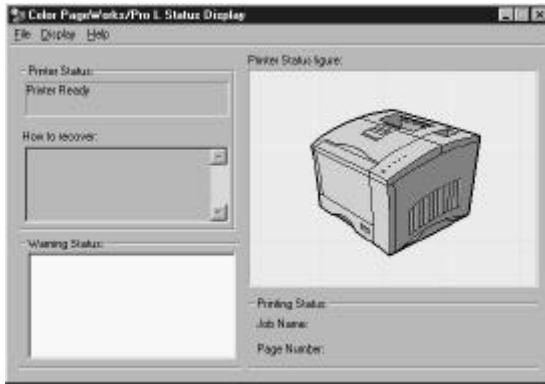


- The operation described above opens the screen shown on page 3-44.

To close the Printer Status Display

On the Printer Status Display **File** menu, click **Exit**.

Using the Printer Status Display



Printer Status

This area displays text messages that describe the current operational status of the printer.

How to recover

This area provides you with explanations of what you need to do in order to correct problems and recover from error conditions.

Warning Status

This area displays text messages that warn you of such conditions as low toner.

Printer Status figure

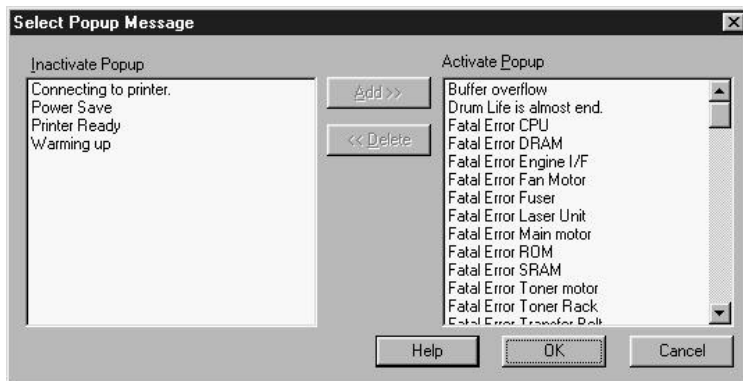
This area shows a graphic representation of the printer and indicates where there is a problem.

Printing Status

These items indicate the status of an ongoing print job. Job Name shows the name of the job, while Page Number shows the number of the page that is currently printing.

Controlling Pop Up Messages

On the **Display** menu, click **Select Popup Messages**.

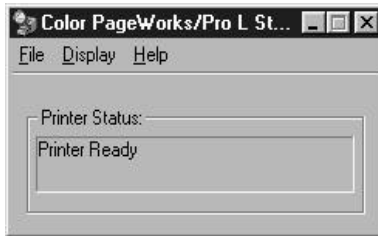


- The **Activate Popup** list shows error conditions that cause popup error messages to appear.
- The **Inactivate Popup** list shows error conditions that do not cause popup error messages to appear.
- To move an error condition from the **Inactivate Popup** list to the **Activate Popup** list, click on the error condition to highlight it and then click **Add**.
- To move an error condition from the **Activate Popup** list to the **Inactivate Popup** list, click on the error condition to highlight it and then click **Delete**.
- After you are finished, click **OK** to register your settings or **Cancel** to close the dialog without entering any changes.

Switching Between the Expanded and Reduced Views

On the **Display** menu, click **Reduce** to reduce the size of the display, or **Expand** to expand it.

- The expanded view is shown on page 3-44. The reduced view is shown below.



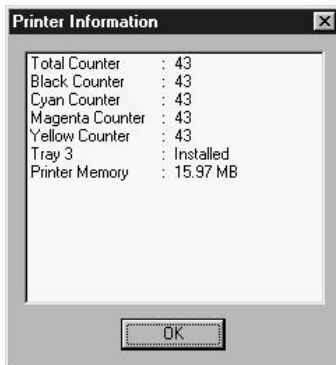
- Note that the **Expand** command is dimmed while the expanded view is on the display, while **Reduce** is dimmed while the reduced view is on the display.

On-line Help

Use the **Help** menu to display online help about the Status Display.

Displaying Printer Information...

On the **Display** menu, click **Printer Information...**



Total Counter

This counter keeps track of the total number of pages that have been output by the printer.

Black, Cyan, Magenta, Yellow Counters

These counters allow you to keep track of the documents that have been output by the printer according to toner color. All monochrome documents are monitored by the **Black Toner Counter**.

Tray 3

"Tray 3: Installed" will be displayed here to indicate when a third cassette unit has been installed onto the printer.

Printer Memory

The amount of RAM that is installed in the printer is displayed here.

Chapter

Maintaining Your Printer

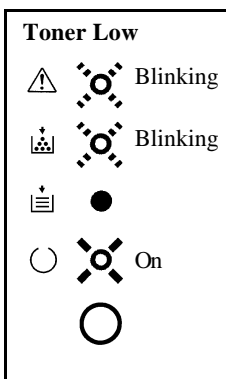
4

Changing Cartridges

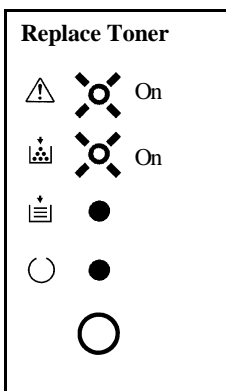


Changing the Toner Cartridge

- There are four **color toner cartridges**: Black, Yellow, Magenta (Red) and Cyan (Blue). When any of the **color toner cartridges** run out, replace them with new ones.



- When any **color toner cartridge** begins to run short of toner, “**TONER LOW**” is displayed. Remove the corresponding cartridge, shake it several times, and reload it into the printer (this will evenly distribute the toner remaining in the cartridge). Prepare a new cartridge as a replacement.



- When any **color toner cartridge** runs out of toner, “**REPLACE TONER**” is displayed and the printing functions of the printer will cease to operate. You can still print by pressing the **Action key** for each copy however, the image density will become lighter and lighter. It is recommended that you change the **toner cartridge** as soon as possible.

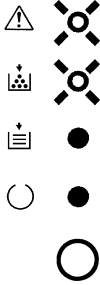
When using the **Action key**, the “**REPLACE TONER**” indicator will not be displayed. Change the **toner cartridge** as soon as possible.

Change the appropriate cartridge by using the following procedure:

- Dispose of the old cartridge in a plastic bag according to your local regulations, or return it to your sales representative.



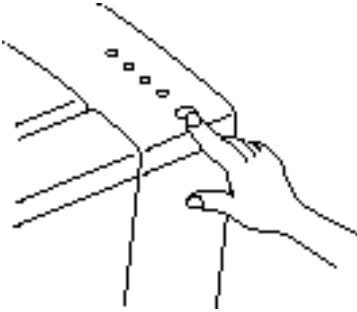
Changing the Toner Cartridge



1. Check the **control panel** to see that the "**Toner Empty**" LED message is displayed.

2. Press the **Action key**.

The LED display will change to indicate which of the **toner cartridges** require replacement.

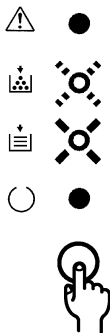


Black	Yellow	Magenta	Cyan
●	Blinking	●	Blinking
●	●	Blinking	Blinking
On	On	On	On
○ ●	○ ●	○ ●	○ ●

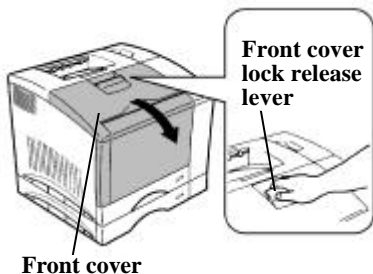
To Be Continued ◆

Changing Cartridges

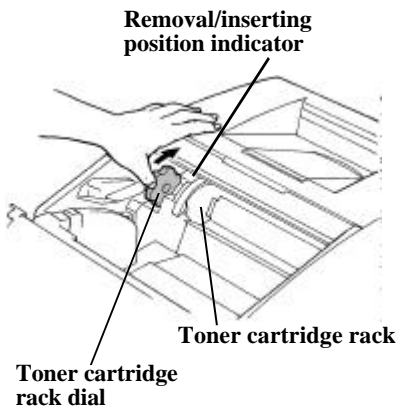
Example: magenta toner empty



Use the LED display to determine which **toner cartridge** is empty.



3. Grasp and pull down on the **front cover lock release lever** to swing open the **front cover**.

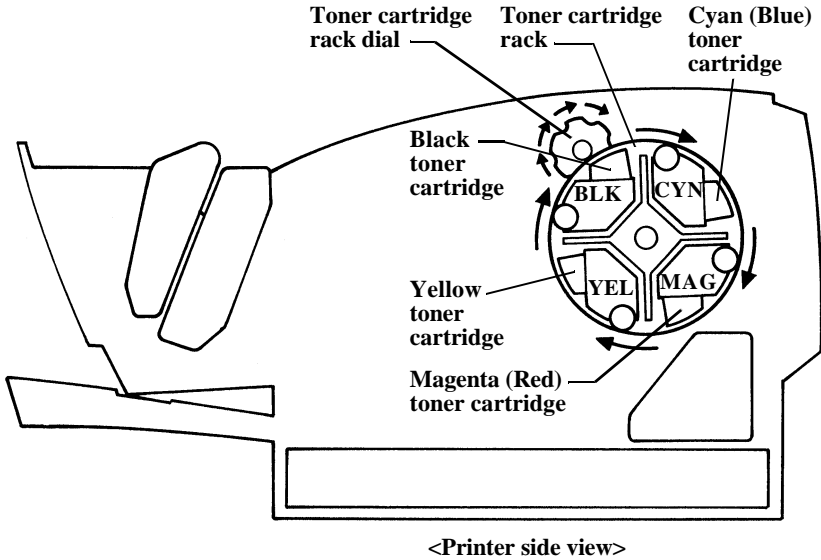


4. Turn the **toner cartridge rack dial** clockwise to turn the **toner cartridge rack** (the dial will not rotate counter-clockwise).

The **toner cartridges** are attached to the rack in the order of Black, Yellow, Magenta (Red) and Cyan (Blue). Turn the rack to the particular cartridge to be changed.

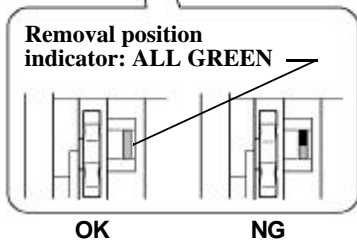
Changing Cartridges

You will feel the dial tighten while turning it.
This is the position for removing the cartridge.



To Be Continued ◆

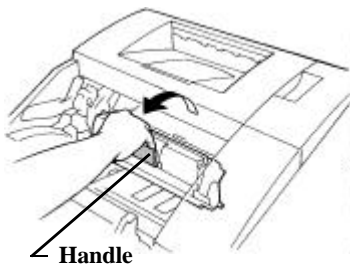
Changing Cartridges



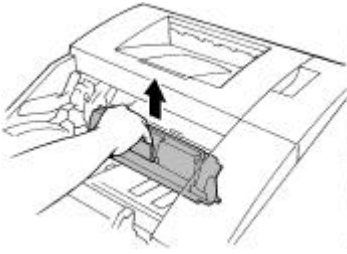
5. To confirm the rack is positioned for removing the cartridge, use the **position confirmation window** beside the dial. The **removal position indicator** will alert the user to the proper removal position.

Note

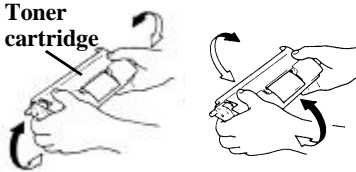
- Before installing or removing the **toner cartridge**, always make sure that the rack is in the proper position. Never install or remove the **toner cartridge** if the rack is not properly positioned.



6. Hold the handle of the used **toner cartridge** and pull it toward you.

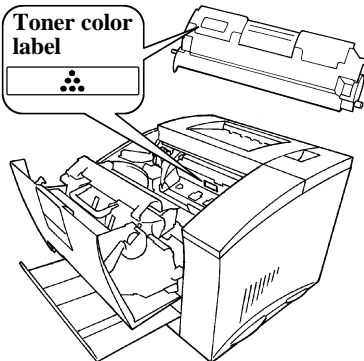
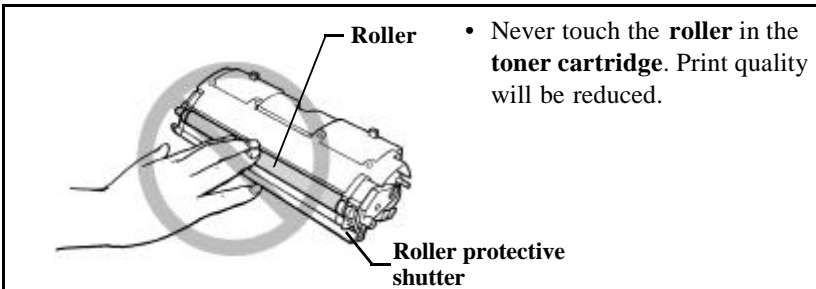


7. Raise the left side of the **toner cartridge** first, then the right.



8. Remove the new **toner cartridge** from its carton and holding the cartridge as shown, shake it well.

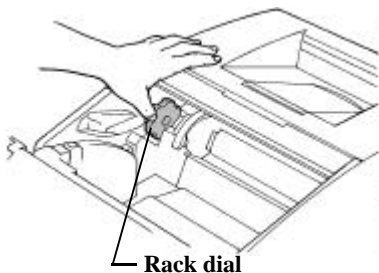
Note



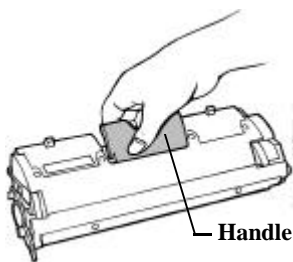
9. Make sure that the label on the **toner cartridge rack** is the same color as the **toner cartridge**.

To Be Continued ◆

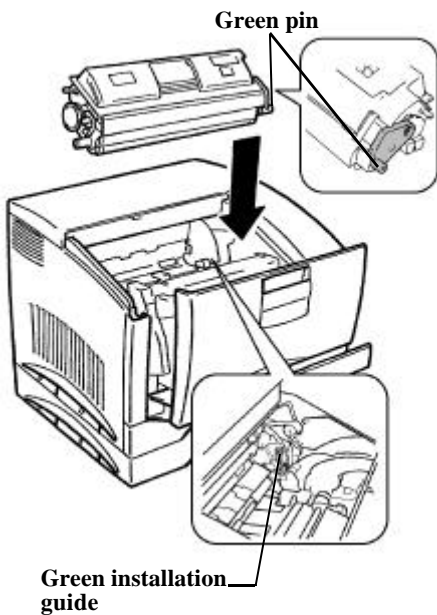
Changing Cartridges



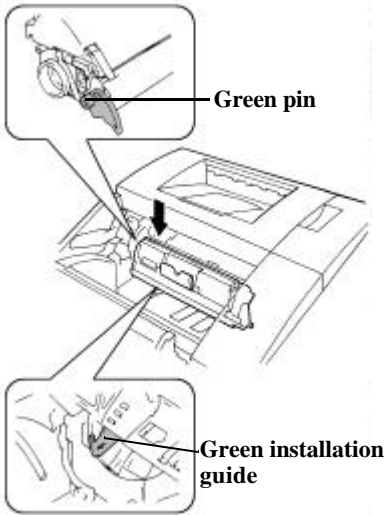
10. When installing the cartridge, hold the **rack dial** with your hand to prevent the rack from rotating.



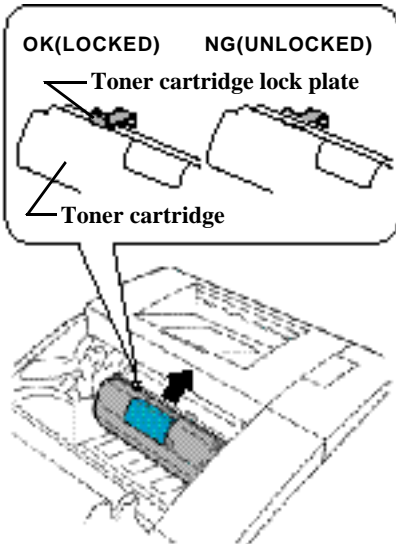
11. Holding the new cartridge as shown, insert the **green pin** on the right side of the cartridge into the **green installation guide** of the rack.



Green installation guide



12. Insert the **green pin** on the left side of the cartridge into the **green installation guide** of the rack.

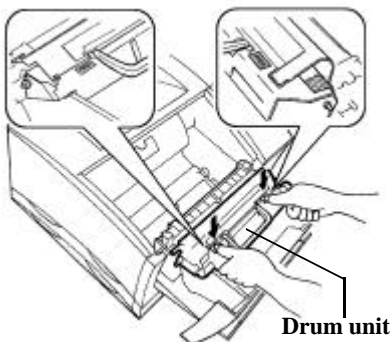


13. Firmly insert the cartridge into the rack until it clicks into place.

Make sure that the **toner cartridge** is installed properly and is held in position by the **toner cartridge lock plate** (refer to the illustration).

To Be Continued ◆

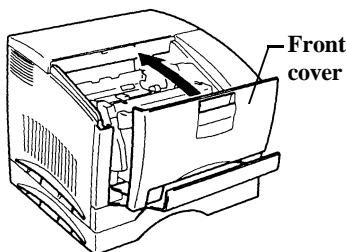
Changing Cartridges



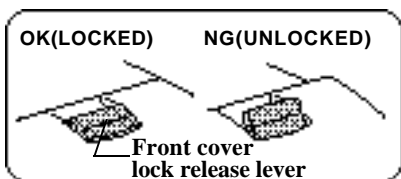
14. Once the **toner cartridge** has been installed, secure the **drum unit** into place by applying pressure at its top where the “**Press**” label is affixed. The **drum unit** will lock into place when it has been correctly inserted into the printer.

Note

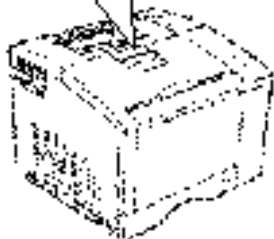
- Before shutting the printer’s exterior cover, make sure that the **drum unit** is securely installed by applying pressure at its top where the “**Press**” label is affixed.



15. Gently close the **front cover**. Do not slam the **front cover** to avoid causing damage to the printer.



16. Make sure that the **front cover** is completely closed. You will hear the sound of the printer operating.





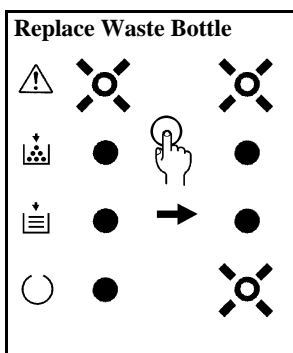
17. Wait until the sound of the printer operation has stopped, indicating that the printer is ready.

Check the **control panel** to see that the “**Ready**” LED message is displayed.

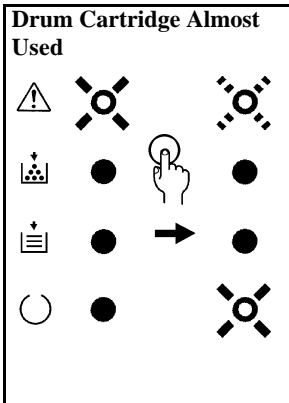


Changing the Drum Cartridge, Waste Bottle and Oiling Roller

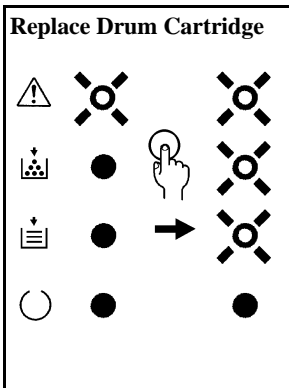
- The **drum cartridge** can provide up to 20,000 images of A4/letter-size prints. One image is equal to one cycle of the **drum cartridge**. The **drum cartridge** operates once (one image) to provide one monochrome print. In comparison, the **drum cartridge** operates four times (four images) to provide one color print.
- When 20,000 images is calculated as color prints, around 5,000 sheets can be printed. (This value will vary according to the color-to-monochrome print ratio, image conditions, etc.)
- Change the **drum cartridge** together with the **waste bottle** and **oiling roller** (these parts are preset to be replaced at the same time).
- When it is time or almost time to change the **drum cartridge**, **waste bottle** or **oiling roller**, a **control panel** display will appear.
 - Press the **Action key**.
 - The **control panel** display will change. The following message displayed will indicate which unit requires replacement.



- The LED message that is displayed in the diagram indicates that the waste bottle is filled to capacity with excess toner. As the **waste bottle**, **drum cartridge** and **oiling roller** are designed for the same cycle of service, replace all three units using the instructions provided on the following page.



- The LED message that is displayed in the diagram indicates that the **drum cartridge** is nearing the end of its service life. Prepare a **new drum cartridge, waste bottle and oiling roller** at this time.



- The LED message that is displayed in the diagram indicates that the **drum cartridge** requires replacement. As the **drum cartridge, waste bottle and oiling roller** are designed for the same cycle of service, replace all three units using the instructions provided on the following page.

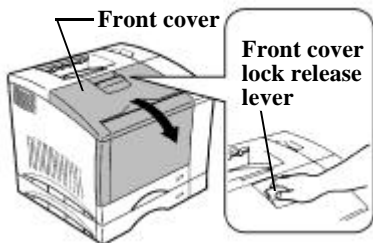
Note

- LED message displays other than those described above may appear after the **Action key** is pressed. If this should happen, turn to page 2-9 (Indicator Lights) or to chapter 5 (Troubleshooting) on page 5-5 and follow the instructions provided.

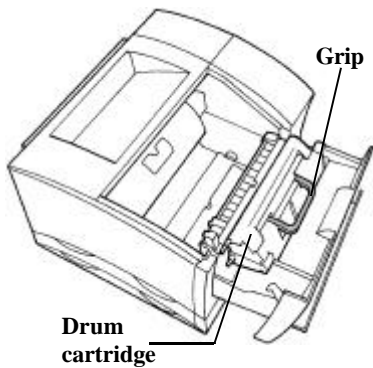
- Dispose of the old **drum cartridge, waste bottle and oiling roller** in plastic bags according to your local regulations, or return them to your sales representative.



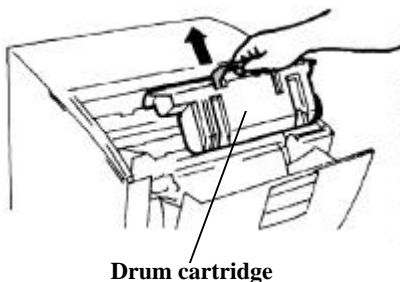
Changing the Drum Cartridge



1. Grasp and pull down the **front cover lock release lever** and swing open the **front cover**.

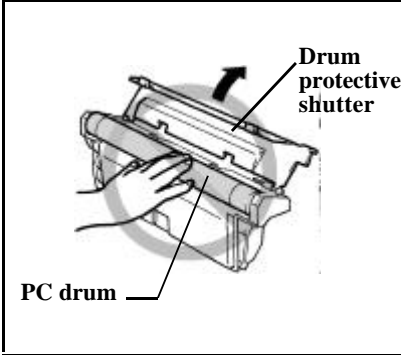


2. Holding onto the grip, pull out the **drum cartridge**.

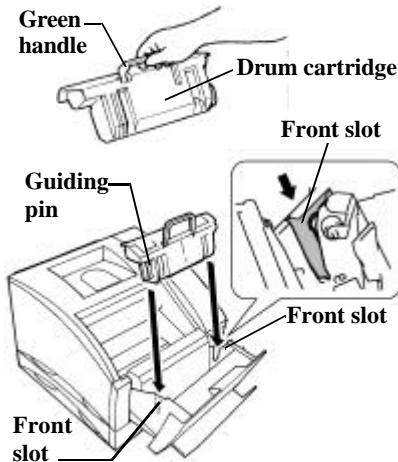


3. Take the new **drum cartridge** out of its carton.

Note



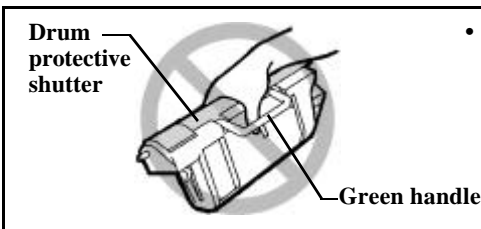
- Do not touch the **drum protective shutter** of the **drum cartridge**. Also, never touch the **internal PC drum**. This will reduce print quality.
- If the **drum cartridge** will not be immediately installed in the printer, be sure to cover it with a cloth to shield it from light.



4. **HOLD THE GREEN HANDLE** of the **drum cartridge** when installing it into the printer.

Install the **drum cartridge** into the printer by aligning its **pins** with the **slots** inside the **printer frame**.

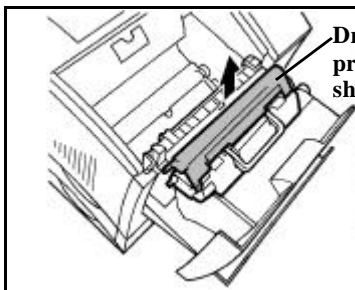
Note



- **DO NOT GRASP** or handle the **drum protective shutter** during installation. This may damage the **transfer belt unit**.

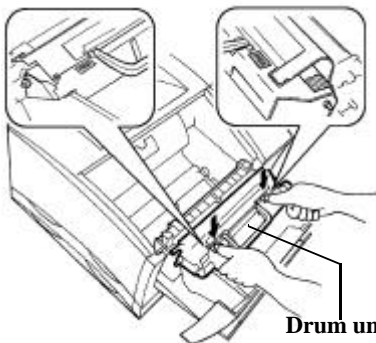
To Be Continued ◆

Note



Drum protective shutter

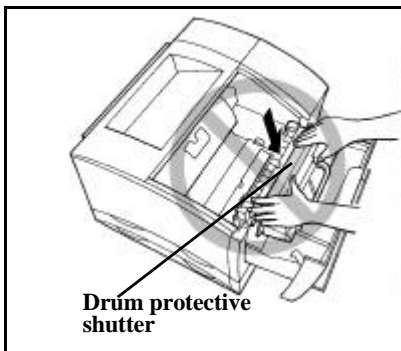
- When the **drum cartridge** is correctly installed into the printer, the **drum protective shutter** will automatically open. Be careful not to disturb or apply pressure to the shutter.



Drum unit

5. Finally, insert the **drum unit** as far as it will go into the printer by applying pressure at its top where the "**Press**" label is affixed. The **drum unit** will lock into place when it has been correctly inserted into the printer.

Note



Drum protective shutter

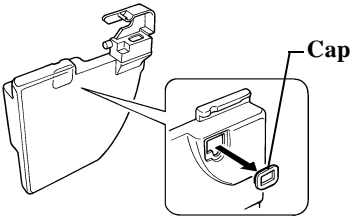
- **DO NOT PRESS** on the **drum protective shutter** during installation. This may damage the **drum cartridge**.



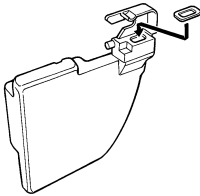
Changing the Waste Bottle



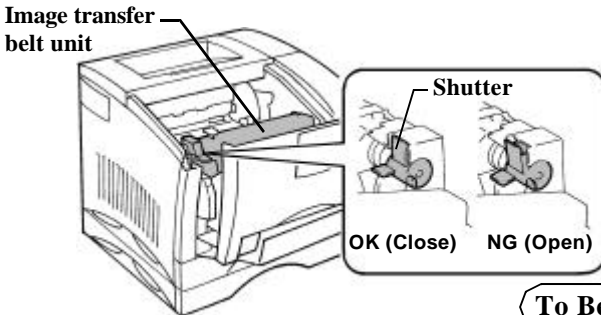
6. Remove the old **waste bottle** from the printer.



7. Remove the cap from the old toner **waste bottle** and place it into the mouth of the old bottle to prevent spills.

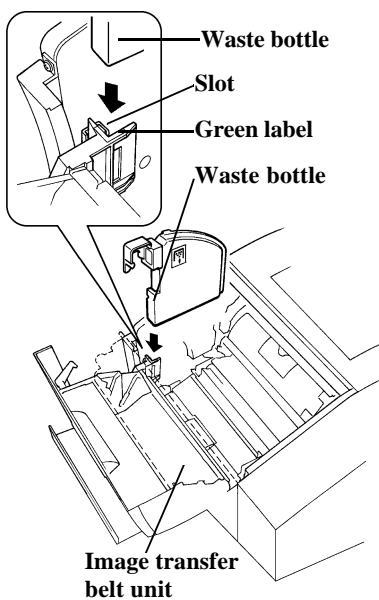


8. Make sure that the shutter of the **image transfer belt unit** is closed.



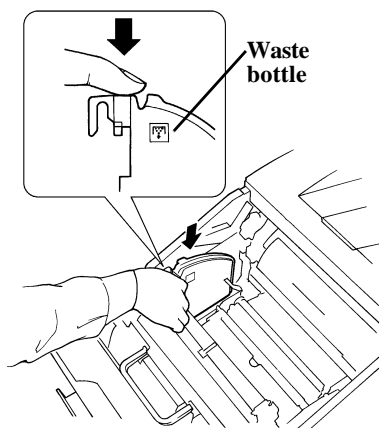
To Be Continued ◆

Changing Cartridges

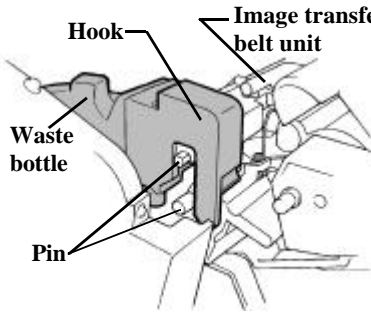


9. Slide the **waste bottle** into the slot located behind the **image transfer belt unit** on the left side of the printer.

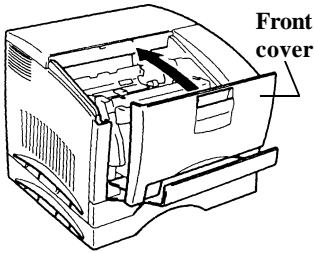
Install the **waste bottle** behind the **image transfer belt** (drawn in the diagram with dash marks) inside of the printer.



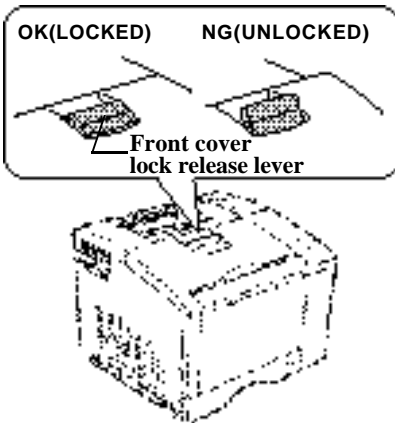
10. Press down on the **waste bottle** until it clicks into place.



11. Make sure that the hook of the **waste bottle** is engaged securely by the pins of the **image transfer belt unit**.



12. Gently close the **front cover**. Do not slam the **front cover** to avoid causing damage to the printer.

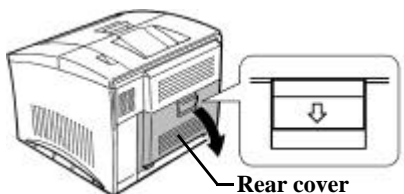


13. Make sure that the **front cover** is completely closed. You will hear the sound of the printer operating.

To Be Continued ◆

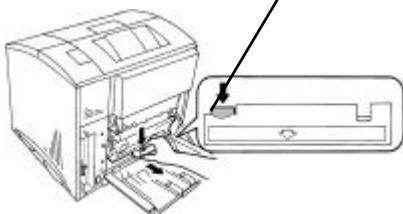


Changing the Oiling Roller



14. Swing open the **rear cover**.

Button of the fusing unit
lock release lever

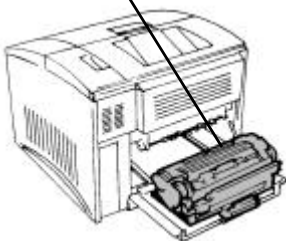


15. Push and hold the button of the **fusing unit lock release lever** and pull out the **fusing unit**.

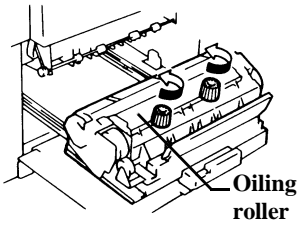


ATTENTION

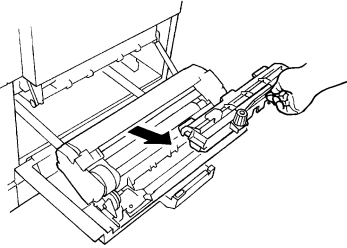
WARNING! HIGH TEMPERATURE
label



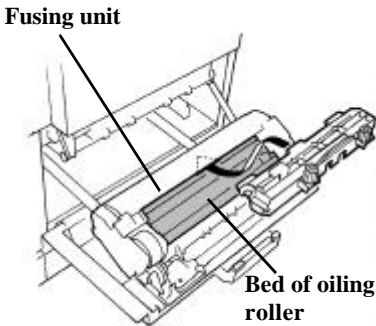
- The **fusing unit** is hot. Be careful not to touch the area surrounding the **WARNING! HIGH TEMPERATURE** label.
- Before changing the **oiling roller**, wait until the surface temperature of the **fusing unit** cools to a safe level.



16. Loosen both of the **oiling roller's installation screws**.

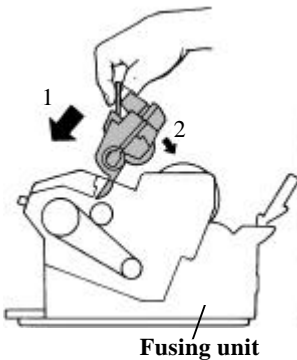


17. Holding onto the grip, take out the **oiling roller**.



18. Remove the new **oiling roller** from its carton.

Install the new **oiling roller** by inserting the tabs on its front end under the edge of the **fusing unit**.



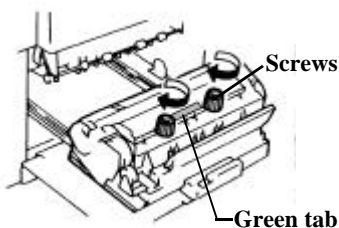
To Be Continued ◆

Changing Cartridges

Note

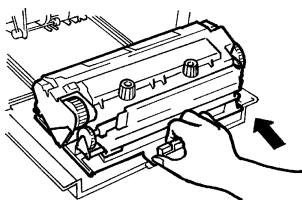


- Do not touch the **oiling roller** as its surface is covered with silicone oil.

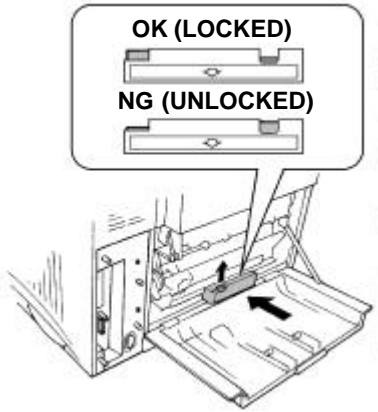


19. Tighten both of the **oiling roller's installation screws**.

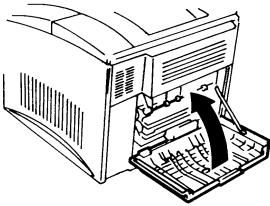
Gently press down on the **green tab** while tightening the screws of the **oiling roller**. Tighten the screws so that the spring action of the cover is completely closed.



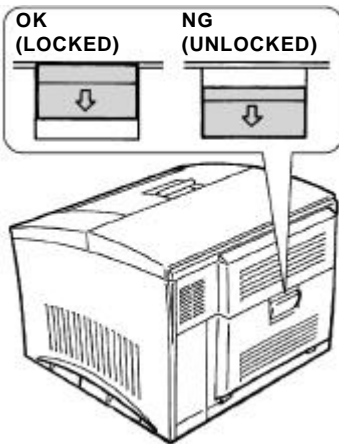
20. Holding the **lock release lever**, insert the **fusing unit** until it clicks into place.



21. Make sure that the button of the **fusing unit lock release lever** is pushed up as shown.



22. Close the **rear cover** until it clicks, locking into place.

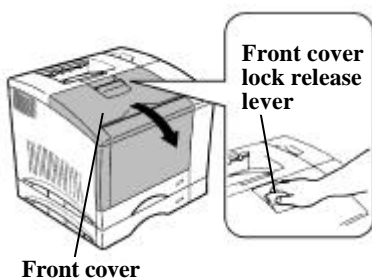


23. Make sure that the **rear cover lock release lever** is pushed up as shown.

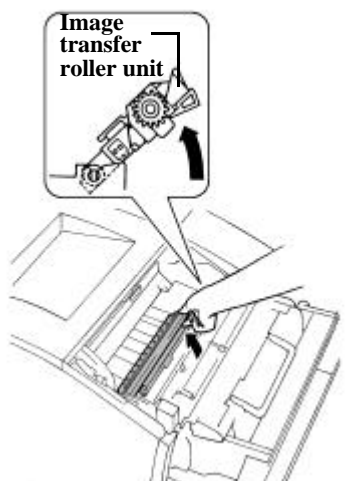
Changing the Fusing Unit and Image Transfer Roller Unit

- The **image transfer roller unit** and **fusing unit** can provide up to 100,000 A4/ letter-size prints (this value will vary with the color to monochrome print ratio, image conditions, etc).
- Change the **fusing unit** and **image transfer roller unit** at the same time.
- Dispose of the old **fusing unit** and **image transfer roller unit** in plastic bags, according to your local regulations or return them to your sales representative.

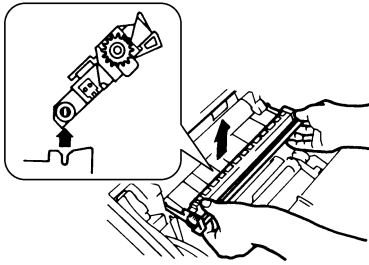
Changing the Image Transfer Roller Unit



1. Grasp and pull down the **front cover lock release lever** and swing open the **front cover**.



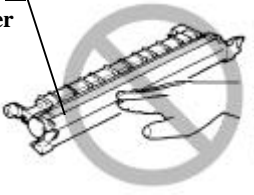
2. Lift the **image transfer roller unit** to the position shown.



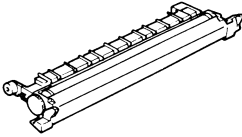
3. Pull out the **image transfer roller unit**.

Note

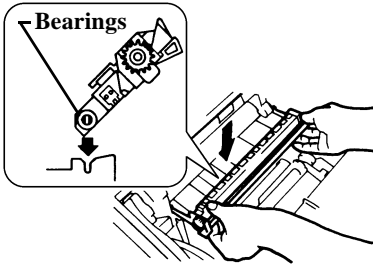
Image transfer roller



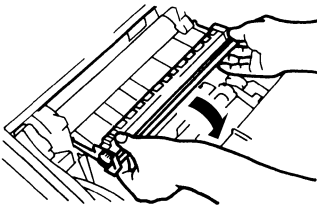
- Do not touch the surface of the **image transfer roller** as this may lead to reduced print quality.



4. Remove the new **image transfer roller unit** from its carton.



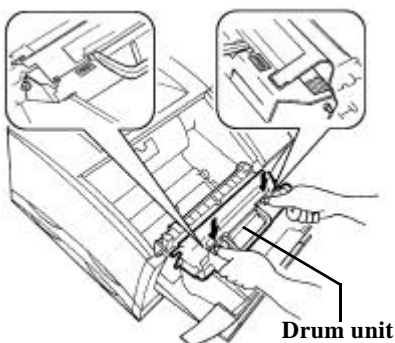
5. Insert both bearings of the **image transfer roller unit** into the shafts as shown.



6. Install the **image transfer roller unit**.

To Be Continued ◆

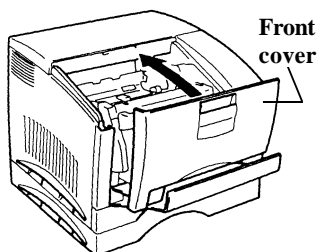
Changing Cartridges



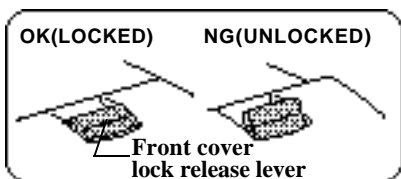
7. Once the **image transfer roller unit** has been installed, secure the **drum unit** into place by applying pressure at its top where the “**Press**” label is affixed. The **drum unit** will lock into place when it has been correctly inserted into the printer.

Note

- Before shutting the printer’s exterior cover, make sure that the **drum unit** is securely installed by applying pressure at its top where the “**Press**” label is affixed.



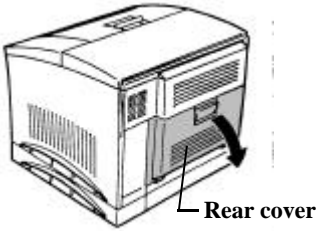
8. Gently close the **front cover**. Do not slam the **front cover** to avoid causing damage to the printer.



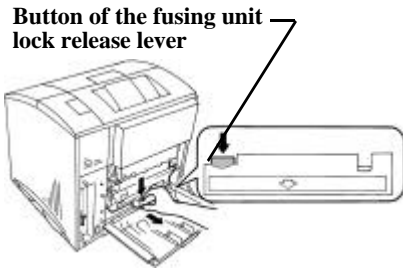
9. Make sure that the **front cover** is completely closed. You will hear the sound of the printer operating.



Changing the Fusing Unit



10. Open the **rear cover**.

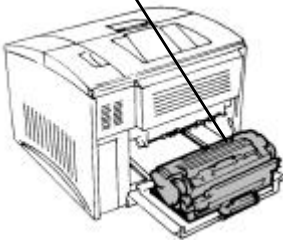


11. Push and hold the button of the **fusing unit lock release lever** and slide out the **fusing unit**.



ATTENTION

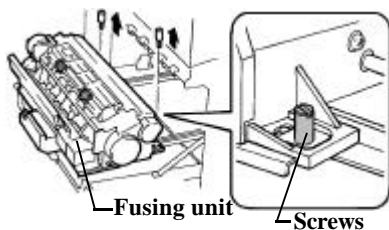
WARNING! HIGH TEMPERATURE label



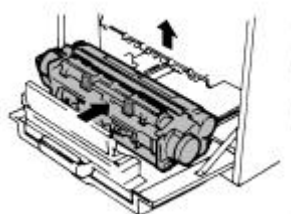
- The **fusing unit** is hot. Be careful not to touch the area surrounding the **WARNING! HIGH TEMPERATURE label**.
- Before changing the **fusing unit**, wait until its surface cools to a safe level.

To Be Continued ◆

Changing Cartridges

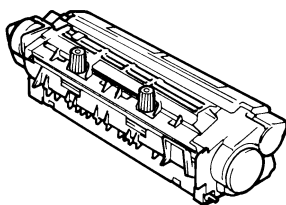


12. Remove both screws of the **fusing unit**.

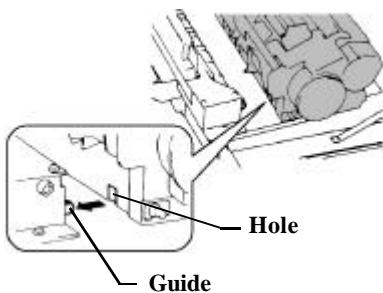


13. Slide out the **fusing unit** in the direction shown.

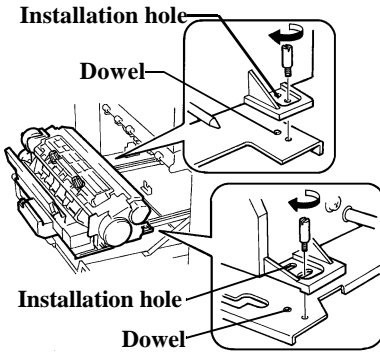
Remove the **fusing unit** from its mount.



14. Remove the new **fusing unit** from its carton.

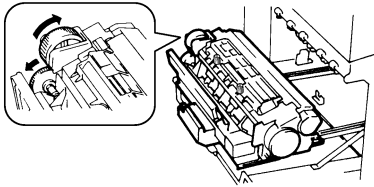


15. Insert the guide of the **fusing unit** mount into the **installation hole** of the new **fusing unit** as shown.

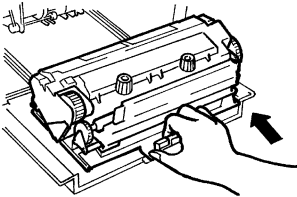


16. Install the **fusing unit** by inserting the **dowel** of the mount into the **fusing unit's installation hole**.

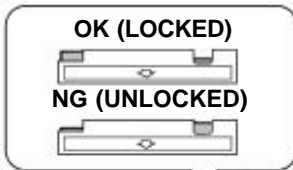
17. Secure the **fusing unit** with the **installation screws**.



18. Turn the **misfeed clearing dial** of the **fusing unit** counterclockwise and make sure that the white gear shown rotates smoothly.



19. Holding the **lock release lever**, insert the **fusing unit** until it clicks into place.

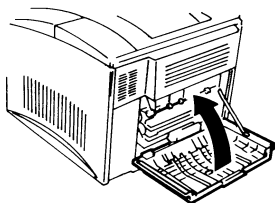


20. Make sure that the button of the **fusing unit lock release lever** is pushed up as shown.

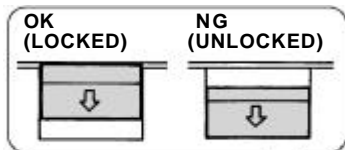


To Be Continued ◆

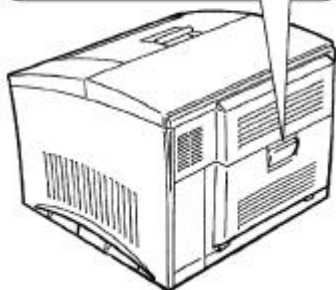
Changing Cartridges



21. Close the **rear cover**.
The **rear cover** will click when it is closed completely.



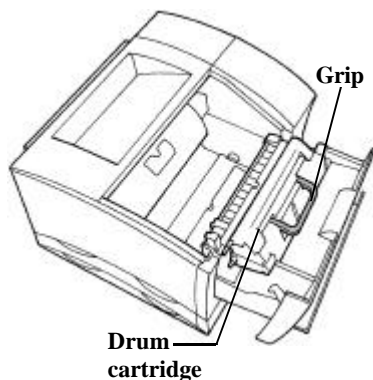
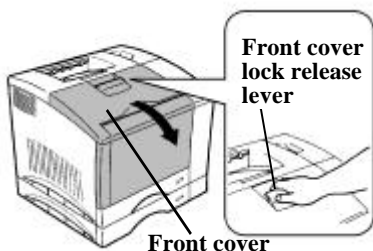
22. Make sure that the button of the **rear cover lock release lever** is pushed up as shown.

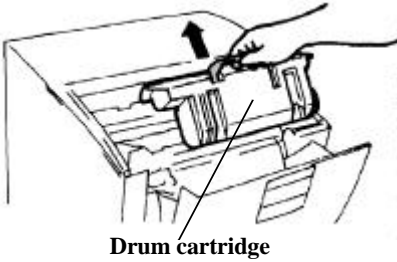


MEMO

Changing the Image Transfer Belt Unit

- The **image transfer belt unit** provides A4/letter-size prints of up to about 150,000 images. One image is equal to one cycle of the **transfer belt**. The **image transfer belt unit** operates once (one image) per monochrome print. In comparison, the **image transfer belt unit** operates four times (four images) per color print.
- When 150,000 images are calculated in terms of color prints, about 37,500 sheets can be printed. (This value will vary according to the color-to-monochrome print ratio, image conditions, etc.)
- Dispose of the old **image transfer belt unit** in a plastic bag, according to your local regulations or return it to your sales representative.





2. Holding the grip, pull out the **drum cartridge**.

Note

Drum protective shutter

PC drum

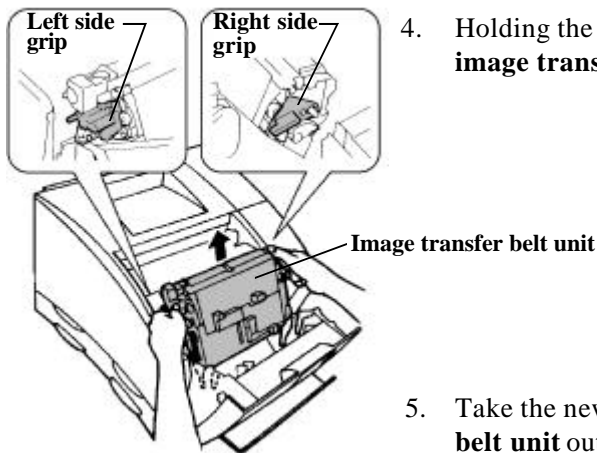
- Do not touch the **drum cartridge's protective shutter**. Also, never touch the **internal PC drum**; to do so will reduce print quality.
- If the **drum cartridge** will not be immediately installed in the printer, be sure to cover it with a cloth to shield it from light.



3. Remove the **waste bottle** from the printer.

To Be Continued ◆

Changing Cartridges



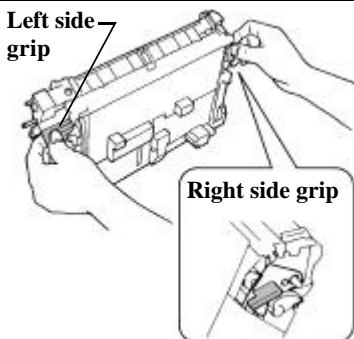
4. Holding the grips, pull out the **image transfer belt unit**.

5. Take the new **image transfer belt unit** out of its carton.

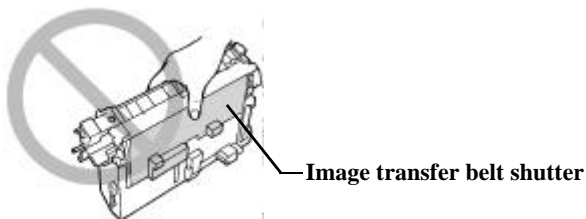
Caution

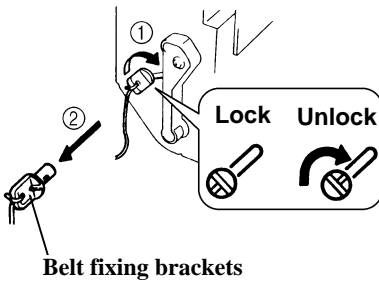
- When removing the **image transfer belt unit** from the box, NEVER DROP or SUBJECT THE UNIT TO SHOCKS.

Note



- When installing the **image transfer belt unit**, be sure to hold onto the grips. NEVER handle the shutter, to avoid damaging the **image transfer belt**.

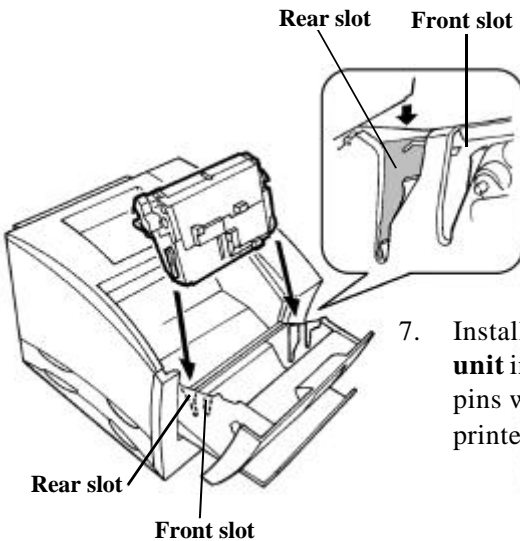




- The **belt fixing brackets** come locked like a key into both sides of the **image transfer belt unit**.

- Turn the **belt fixing bracket** on the left side of the **image transfer belt unit** to the position shown to unlock the bracket.
- Pull out the **belt fixing bracket**.

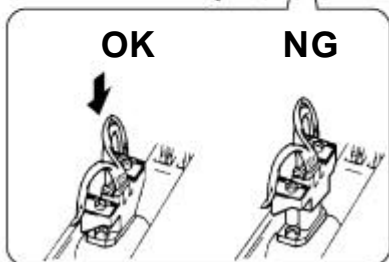
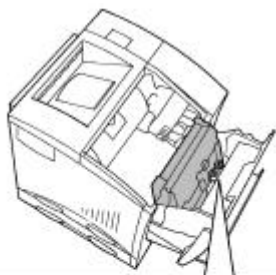
Unlock and pull out the **belt fixing bracket** from the right side of the **image transfer belt unit** following the same procedure as used for the left side.



- Install the **image transfer belt unit** in the printer, aligning its pins with the slots inside the printer's frame.

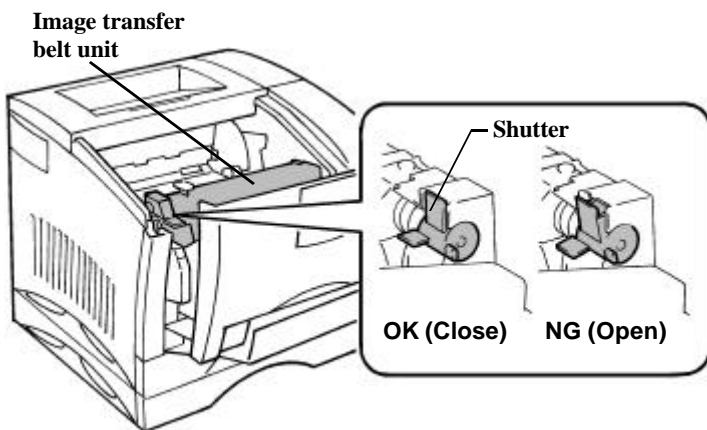
To Be Continued ◆

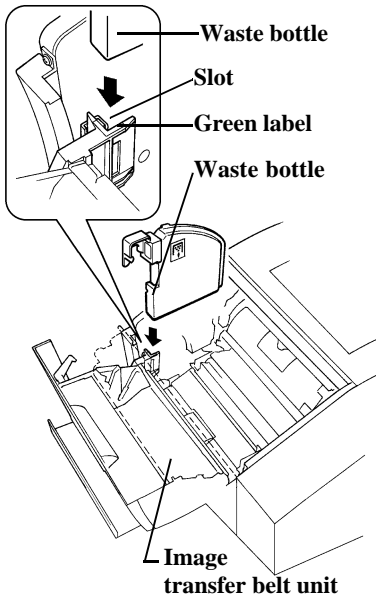
Changing Cartridges



8. Check that the connector from the **image transfer belt unit** is securely connected to the printer's connector.

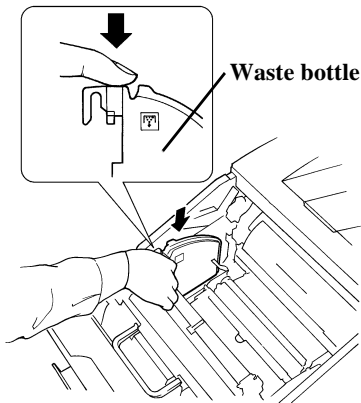
9. Make sure that the shutter of the **image transfer belt unit** is closed.





10. Slide the **waste bottle** into the slot located behind the **image transfer belt unit** on the left side of the printer.

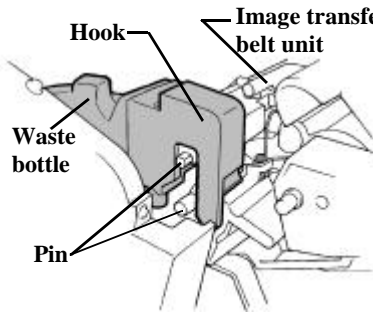
Install the **waste bottle** behind the **image transfer belt** (drawn in the diagram with dash marks) inside of the printer.



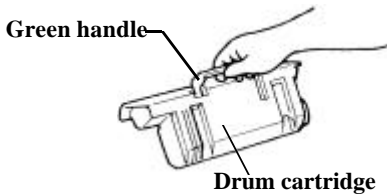
11. Press down on the **waste bottle** until it clicks into place.

To Be Continued ◆

Changing Cartridges

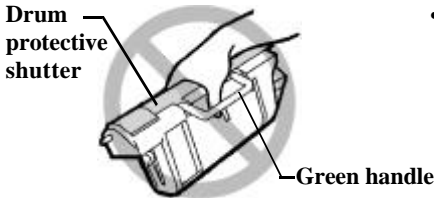


12. Make sure that the hook of the **waste bottle** is engaged securely by the pins of the **image transfer belt unit**.

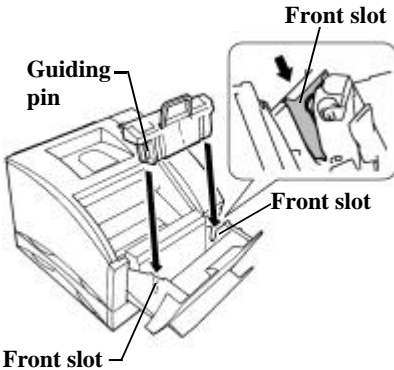


13. **HOLD THE GREEN HANDLE** of the **drum cartridge** when installing it into the printer.

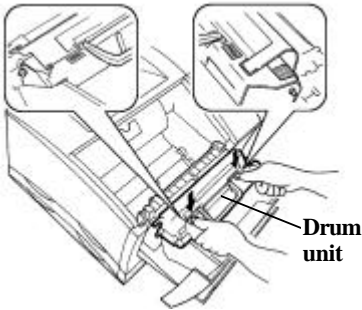
Note



- **DO NOT HANDLE** the **drum protective shutter** during installation to avoid damaging the **transfer belt unit**.

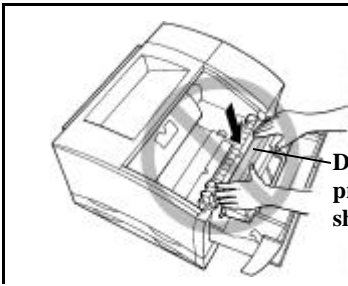


14. Align the **drum cartridge's pins** with the slots inside the printer for easy installation.

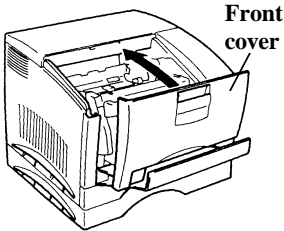


15. APPLY PRESSURE ONLY TO THE GREEN SQUARES on the top face of the **drum cartridge** until it locks into place.

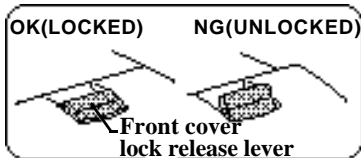
Note



- DO NOT PRESS ON the **drum cartridge's shutter** during installation. Doing so may damage the **drum cartridge**.



16. Gently close the **front cover**. Do not slam the **front cover** to avoid causing damage to the printer.



17. Make sure that the **front cover** is completely closed. You will hear the sound of the printer operating.



Cleaning the Printer

Dust, dirt, and paper debris on the outer surfaces and inside the printer can interfere with printer performance. Clean the printer regularly.

Note

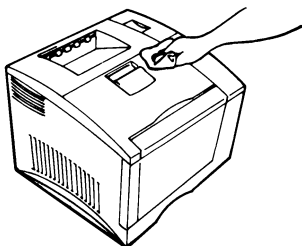
- Before cleaning, be sure to turn OFF the power switch and unplug the power cord from the outlet.
- Use a soft cloth for cleaning. Do not use abrasives or corrosive detergents.



ATTENTION

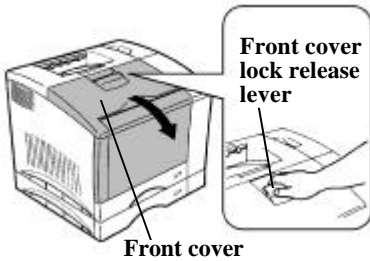
The **fusing unit** inside the **rear cover** can become very hot during operation. To avoid burning yourself, avoid touching the area or the **fusing unit**.

Cleaning the Outside



1. Using a soft cloth and a mild dishwashing detergent, wipe the outside of the printer.

Cleaning the Inside



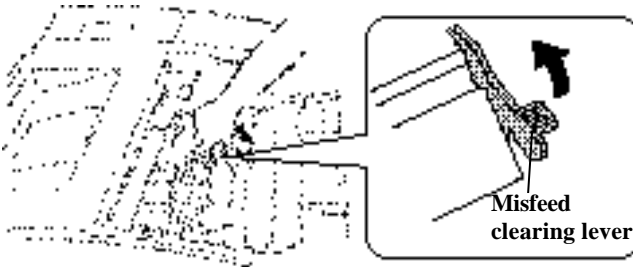
1. Grasp and pull down the **front cover lock release lever** to swing open the **front cover**.

Note

A line drawing of a printer with its front cover open. A cloth is draped over the front cover to protect the drum cartridge from light.

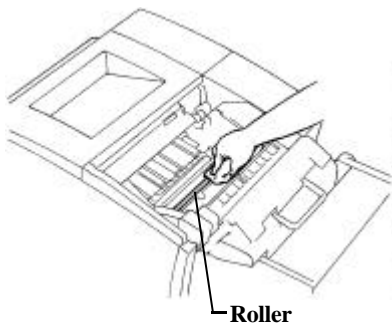
- Whenever the printer is open, drape the **front cover** with a cloth so that the **drum cartridge** is not exposed to light.

2. Lift the **misfeed clearing lever**.



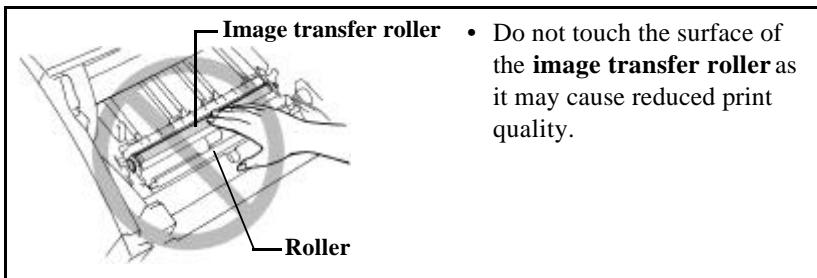
To Be Continued ◆

Cleaning the Printer

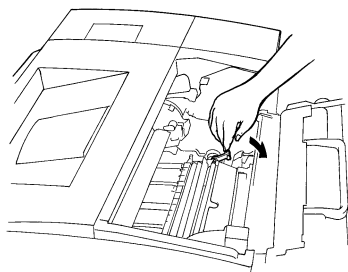


3. Using a soft cloth, wipe dirt and paper debris off the **roller** as shown.

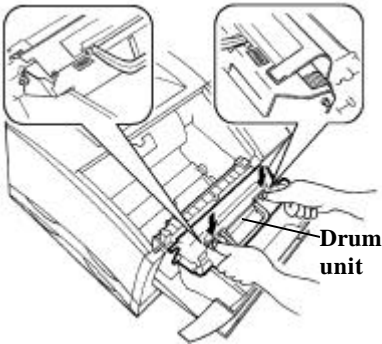
Note



- Do not touch the surface of the **image transfer roller** as it may cause reduced print quality.



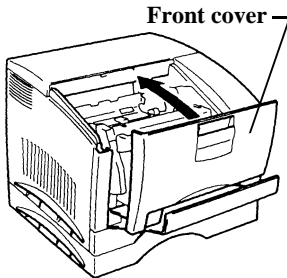
4. Return the **misfeed clearing lever** to the “down” position.



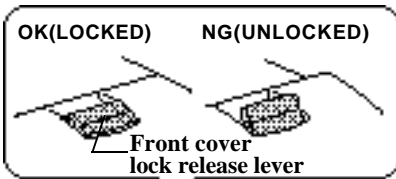
5. Before closing the **front cover**, secure the **drum unit** into place by applying pressure at its top where the “**Press**” label is affixed. The **drum unit** will lock into place when it has been correctly inserted into the printer.

Note

- Before shutting the printer’s exterior cover, make sure that the **drum unit** is securely installed by applying pressure at its top where the “**Press**” label is affixed.



6. Gently close the **front cover**. Do not slam the **front cover** to avoid causing damage to the printer.



7. Make sure that the **front cover** is completely closed. You will hear the sound of the printer operating.



MEMO

Chapter 4

Maintaining Your Printer

Chapter

Troubleshooting

5

How to Troubleshoot

Use this section as a reference for solving routine problems before calling your technical representative. Many of these troubleshooting tips provide quick and easy remedies to some common situations. If the problems persist however, please contact your authorized technical representative or customer support.

Diagnosing Your Printer

Different steps of action should be taken for different trouble symptoms. First, find out which one of the following categories your printer's symptom fits into, then go to the corresponding action pages.

Troubleshooting prior to the Transmission of Data

Typical symptoms include:

- **The printer does not turn ON.**

See p. 5-3.

Troubleshooting the Print Cycle

The printer fails to print data that has been received from the host computer.

Typical symptoms include:

- **The printer does not accept the data.**
- **An error occurs, disabling the printer.**
- **A paper problem such as a misfeed occurs, disabling the printer.**

See p. 5-4.

Improving Print Quality

Typical symptoms include:

- **Poor print quality.**
- **Print results are not consistent with settings.**
- **The printer requires excessive time in order to complete the print cycle.**

See p. 5-30.

Customer Support

Customer support for all Minolta PageWorks printer products is available 24 hours a day, seven days a week by calling **1-800-459-3250** (from within North America). Minolta also maintains a Web site which provides printer driver downloads, Frequently Asked Questions and handles all e-mail requests for technical assistance at: **<http://www.minoltaprinters.com>**.

Please be prepared to provide the following information when contacting Minolta Customer Support:

- **Model name**
- **Serial number**
- **A detailed description of the problem**
- **Any message displayed on the control panel**

For questions or problems with installation, please be prepared to provide the following additional information:

- **Brand name and model number of the computer**
- **Type of processor**
- **Type of operating system**
- **Amount of installed RAM**

Problems During Data Transmission and the Print Cycle






Troubleshooting prior to the Transmission of Data

Symptom	Cause	Action
The printer power is not turned ON.	The power cord is unplugged or loose.	Plug the power cord into the printer and outlet.
	The power outlet may be faulty.	Plug another electrical appliance into the outlet to test if it works properly.
The indicator lights is blank and the printer makes no sound but the printer can be turned ON.	The voltage of the printer does not match the power outlet voltage.	Check the power outlet for correct voltage.

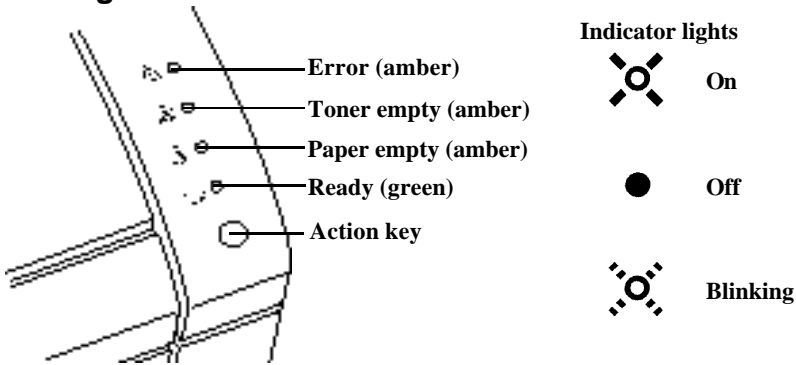
Troubleshooting the Print Cycle (1/2)





Symptom	Cause	Action
The indicator lights up and the print cycle does not start.	The printer has detected an error. The details of the error are shown on the indicator lights.	See the “Messages” section to determine the necessary remedy. [p. 5-5]
A print job cannot be cancelled from the host computer.	A communication error has occurred between the printer and the host computer.	Press the Action key continuously for 10 seconds. The printer will start initializing and printing will be cancelled. [p. 2-45]

Troubleshooting the Print Cycle (2/2)


Symptom	Cause	Action
A paper misfeed.	Possible causes include: <ul style="list-style-type: none"> • Paper does not meet specifications required. • Transparencies have not been fanned thoroughly before loading. • Paper is not loaded properly in the tray. • The optional third cassette unit is not installed properly. • The fusing unit requires replacement. 	Once you have identified the cause of the problem, use the corresponding reference pages listed below and follow the instructions provided. <ul style="list-style-type: none"> • For the types of paper that can be used, see “Paper”  p. 2-19 • Reload the transparencies/paper.  p. 2-31 • To clear a paper misfeed, see “Clearing a Paper Misfeed”  p. 5-21 • Reinstall the third cassette unit.  “Set-up Guide” • Change the fusing unit.  p. 4-23
Double feed.	Multiple sheets are output together.	Fan the paper stack thoroughly and reload it.
The error message shown below appears on the screen of your computer and your document will not print. “Error at SuperMeta-File record type 0x20, offset 0x168e”	Power to the printer has been turned off. The interface cable (parallel) connection is not secure.	Turn on the printer and send the print job again. Secure the interface cable connection and send the print job again.

Messages



	On or blinking Ready LED	See the explanation for Ready on the LED chart.  p. 5-6
	On or blinking Error LED	See the explanation for Error on the LED chart.  p. 5-12



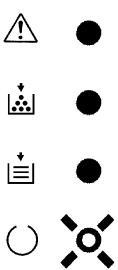
Note



- The LED display will change as you push the Action key.
- The appearance of this icon throughout this manual indicates when you need to press the Action key.

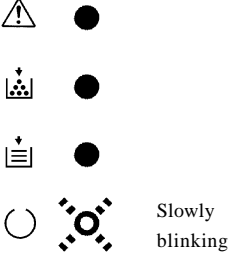
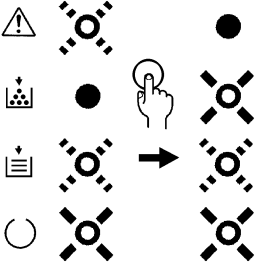
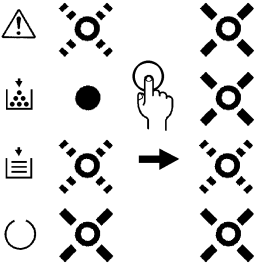
Problems During Data Transmission and the Print Cycle

○⊗ When the Ready LED is on (1/6)

LED Display	Description	Response Required
<p>Initializing</p> 	<p>Power on, initializing.</p>	<p>Wait a few moments.</p>
<p>Warming Up</p> 	<p>Printer is warming up.</p>	<p>Wait a few moments for the printer to warm up.</p>
<p>Ready</p> 	<p>Printer is ready and able to print.</p>	<p>Send a print job.</p>

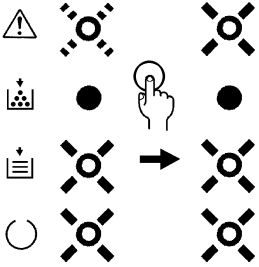

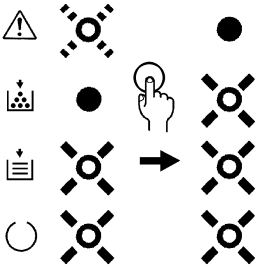

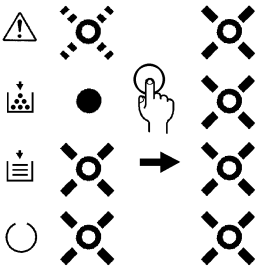

Problems During Data Transmission and the Print Cycle

○ ✖ When the Ready LED is on (2/6)

LED Display	Description	Response Required
<p>Power Save</p>  <p>Slowly blinking</p>	<p>Printer has entered a power conservation mode. Printing is possible. The printer will go into the Ready mode as soon as it receives the next print job.</p>	<p>Send a print job. It takes some time before the printer can print while in the power conservation mode. Please wait a few moments.</p>
<p>Tray 2 Paper Low</p> 	<p>Tray 2 is almost out of paper.</p>	<p>Prepare to refill the paper supply.</p>
<p>Tray 3 Paper Low</p> 	<p>Tray 3 is almost out of paper.</p>	<p>Prepare to refill the paper supply.</p>

Problems During Data Transmission and the Print Cycle

○⊗ When the Ready LED is on (3/6)

LED Display	Description	Response Required
<p>Tray 1 Paper Empty</p> 	<p>Tray 1 is out of paper.</p>	<p>Add paper.  pp. 2-23, 2-32, 2-40</p>
<p>Tray 2 Paper Empty</p> 	<p>Tray 2 is out of paper.</p>	<p>Add paper.  pp. 2-26, 2-35</p>
<p>Tray 3 Paper Empty</p> 	<p>Tray 3 is out of paper.</p>	<p>Add paper.  pp. 2-26, 2-35</p>

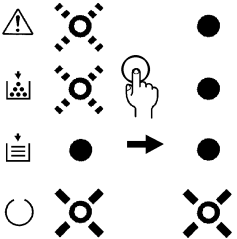

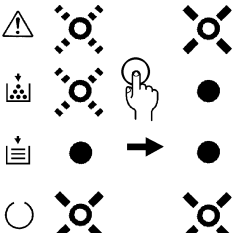
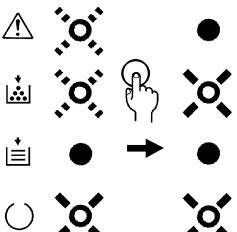
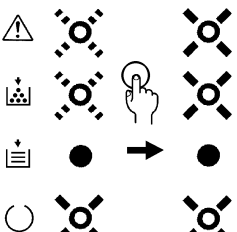
Problems During Data Transmission and the Print Cycle

○⊗ When the Ready LED is on (4/6)










LED Display	Description	Response Required
<p>No Tray 2</p>	<p>Tray 2 is not in place.</p>	<p>Load Tray 2.</p>
<p>No Tray 3</p>	<p>Tray 3 is not in place.</p>	<p>Load Tray 3.</p>
<p>Wait Action</p>	<p>Press the Action key in the event of a paper size error, a size mismatch or when operating in the manual mode.</p>	<p>Press the Action key. Printing will begin.</p>

Problems During Data Transmission and the Print Cycle

○⊗ When the Ready LED is on (5/6)

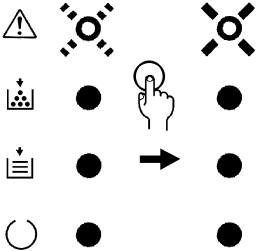

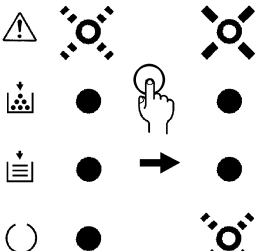
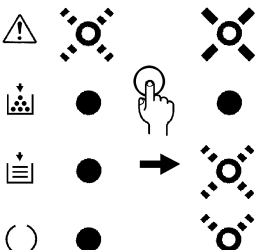
LED Display	Description	Response Required		
<p>Black Toner Low</p> 	<p>The supply of toner inside of the toner cartridge is low but printing is still possible.</p>	<p>Ready a new toner cartridge for replacement.  p. 4-1</p>		
<p>Yellow Toner Low</p> 				
<p>Magenta Toner Low</p> 				
<p>Cyan Toner Low</p> 				

 **When the Ready LED is on (6/6)**

LED Display	Description	Response Required
<p>Drum Cartridge Almost Used</p>        	<p>It is almost time to replace the drum cartridge.</p>	<p>Ready a drum cartridge replacement. Since the drum cartridge is on the same replacement cycle as the waste bottle and oiling roller, prepare to replace these items as well.</p> <p> p. 4-11</p>

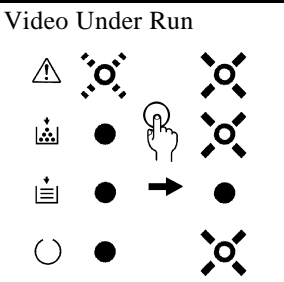
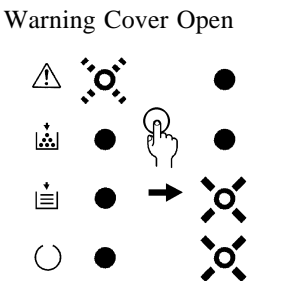

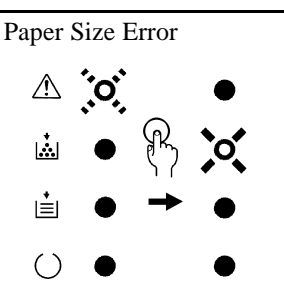
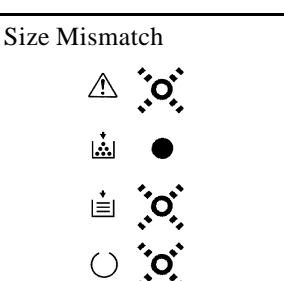

Problems During Data Transmission and the Print Cycle

When the Error LED is on (1/9)

LED Display	Description	Response Required
<p>Paper Misfeed 1</p> 	<p>A paper misfeed occurred near the paper intake area.</p>	<p>Remove the misfed sheet of paper. For details, see "Clearing a Paper Misfeed"  p. 5-21</p>
<p>Paper Misfeed 2</p> 	<p>A paper misfeed occurred near the paper intake and fusing unit area.</p>	
<p>Paper Misfeed 3</p> 	<p>A paper misfeed occurred between the fusing unit and paper exit area.</p>	

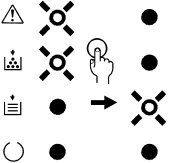

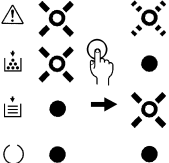


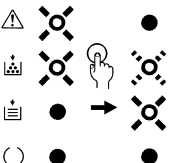

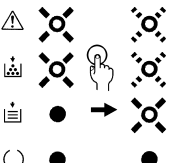
Problems During Data Transmission and the Print Cycle

When the Error LED is on (2/9)

LED Display	Description	Response Required
<p>Video Under Run</p> 	<p>The buffer cannot handle the volume of data being sent.</p>	<p>Turn the power to the printer off then on again. Cancel the print job through the printer driver and resend it.</p>
<p>Warning Cover Open</p> 	<p>The front or rear cover is open.</p>	<p>Close the front or rear cover.  pp. 2-1, 2-3</p>
<p>Paper Size Error</p> 	<p>The wrong size of paper has been detected in Tray 1.</p>	<p>Supply the specified size of paper to the selected paper source. Printing will resume using the paper size currently loaded in the printer by pressing the Action key.</p>
<p>Size Mismatch</p> 	<p>The wrong size of paper has been detected in Tray 2 or Tray 3.</p>	<p> p. 2-23</p>

Problems During Data Transmission and the Print Cycle

When the Error LED is on (3/9)

LED Display	Description	Response Required
Replace Black Toner/ Put Black Toner Cartridge 	Replace Toner: The toner cartridge is empty.	You can continue to print, one print at a time, by pressing the Action key. How- ever, the image den- sity will gradually become lighter. It is recommended that you change the toner cartridge as soon as possible.  p. 4-1
Replace Yellow Toner/ Put Yellow Toner Cartridge 	Replace the old toner cartridge with a new one.  p. 4-1	Replace the old toner cartridge with a new one.  p. 4-1
Replace Magenta Toner/ Put Magenta Toner Cartridge 	Put Toner Cartridge: One or more of the toner cartridges is missing.	Load the toner car- tridge(s).  p. 4-1
Replace Cyan Toner/ Put Cyan Toner Cartridge 		

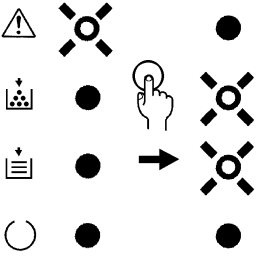

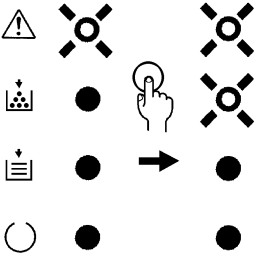
⚠️ ❌ When the Error LED is on (4/9)

LED Display	Description	Response Required
<p>Need Oiling Roller</p>	<p>The oiling roller or fusing unit is not installed.</p>	<p>Load the oiling roller. [p. 4-11]</p>
		<p>Load the fusing unit. [p. 4-23]</p>
<p>Replace Waste Bottle/ Put Waste Bottle</p>	<p>The waste bottle is full.</p>	<p>The drum cartridge, waste bottle and oiling roller are on the same replacement cycle. Replace all three units together. [p. 4-11]</p>
		<p>The waste bottle has not been installed.</p>
<p>Replace Drum Cartridge/ Put Drum Cartridge</p>	<p>The drum cartridge requires replacement.</p>	<p>The drum cartridge, waste bottle and oiling roller are on the same replacement cycle. Replace all three units together. [p. 4-11]</p>
		<p>The drum cartridge has not been installed.</p>

  When the Error LED is on (5/9)

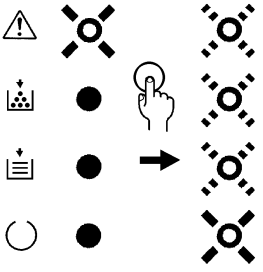
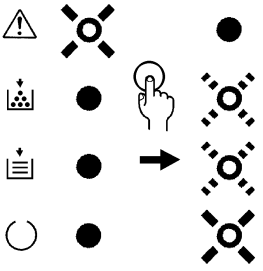
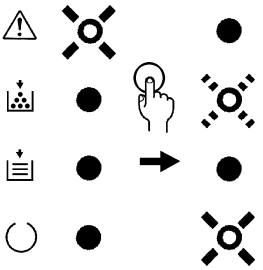
LED Display	Description	Response Required
<p>Fatal Error: Transfer Roller</p>	<p>Requires servicing.</p>	<p>Turn the power to the printer off and then on again. If the same LED message continues to be displayed, contact customer support or your dealer.</p>
<p>Fatal Error: SRAM, Drum, ROM, Engine I/F, CPU</p>		

⚠️ ✖️ When the Error LED is on (6/9)

LED Display	Description	Response Required
<p>I/O Error (Network)</p> 	<p>A network port error occurred.</p>	<p>Switch power off and on. The printer will return ready. Run the print cycle again.  p. 2-17</p>
<p>I/O Error (Parallel)</p> 		<p>Turn the power to the printer off and then on again. If the same LED message continues to be displayed, contact customer support or your dealer.</p>

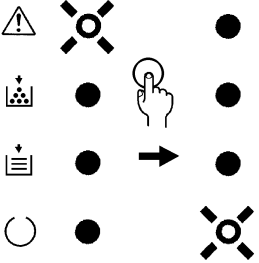
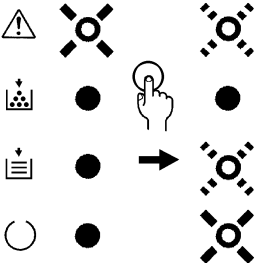
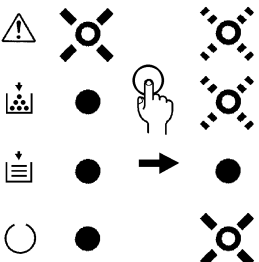
Problems During Data Transmission and the Print Cycle

When the Error LED is on (7/9)

LED Display	Description	Response Required
<p>Fatal Error: Laser Unit</p> 	Requires servicing.	Turn the power to the printer off and then on again. If the same LED message continues to be displayed, contact customer support or your dealer.
<p>Fatal Error: Fan Motor</p> 		
<p>Fatal Error: Main Motor</p> 		

Problems During Data Transmission and the Print Cycle

When the Error LED is on (8/9)

LED Display	Description	Response Required
<p>Fatal Error: Toner Rack</p> 	Requires servicing.	Turn the power to the printer off and then on again. If the same LED message continues to be displayed, contact customer support or your dealer.
<p>Fatal Error: Fuser</p> 		
<p>Fatal Error: Transfer Belt</p> 		

Problems During Data Transmission and the Print Cycle

⚠️ ❌ When the Error LED is on (9/9)

LED Display	Description	Response Required
Fatal Error: Toner Motor 	Requires servicing.	Turn the power to the printer off and then on again. If the same LED message continues to be displayed, contact customer support or your dealer.

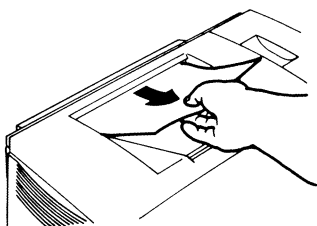
Clearing a Paper Misfeed

When a paper misfeed occurs in the printer, remove the paper according to the following procedure.

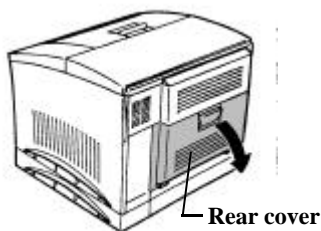


ATTENTION

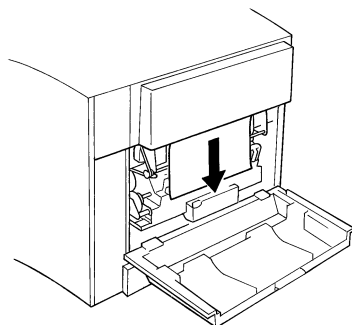
- The **fusing unit** inside the **rear cover** can become very hot during operation. Do not touch the area to avoid injury.



1. Pull the paper from the **paper exit port** out toward you.

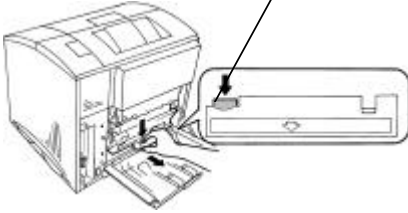


2. Swing open the **rear cover**.



3. Pull down the paper from the **paper-exit port**.

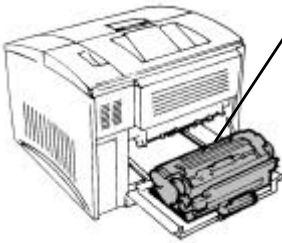
Button of the fusing unit lock release lever



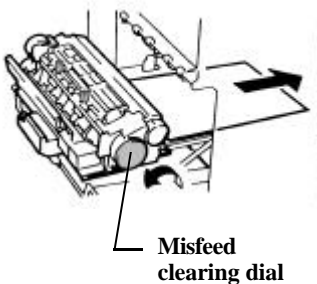
4. Push and hold the **fusing unit lock release lever button** and slide out the **fusing unit**.

ATTENTION

WARNING! HIGH TEMPERATURE label



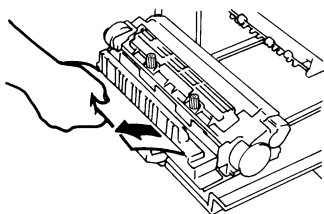
- The **fusing unit** is hot. Be careful not to touch the area surrounding the **WARNING! HIGH TEMPERATURE** label.



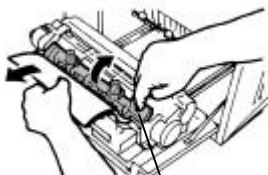
5. While turning the **misfeed clearing dial** of the **fusing unit** counterclockwise, pull out the paper from the **fusing unit**.

To Be Continued 

Clearing a Paper Misfeed

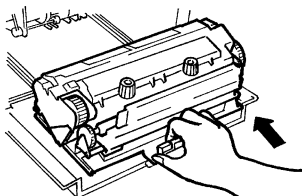


6. Pull out the paper from the **fusing unit**.

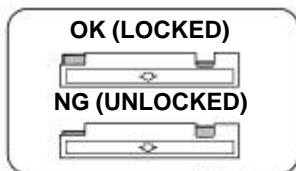


Misfeed
clearing guide

7. Lift the **misfeed clearing guide** of the **fusing unit** and pull out the paper.

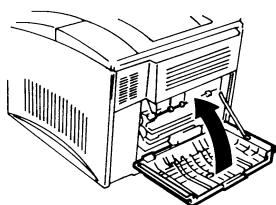


8. Hold the **lock release lever button** and push in the **fusing unit** until it locks back into position.

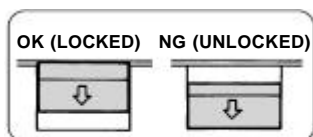


9. Make sure that the button of the **lock release lever** is pushed up as shown.

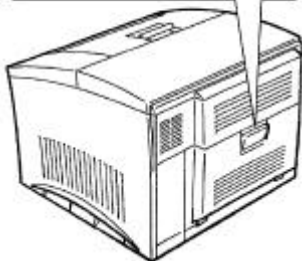




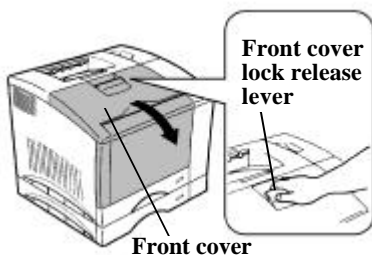
10. Close the **rear cover**, locking it into place.



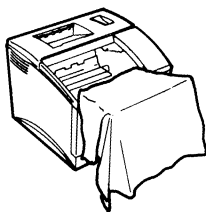
11. Make sure that the button of the **lock release lever** is pushed up as shown.



12. Grasp and pull down the **front cover lock release lever** and swing open the **front cover**.



Note



- Whenever the printer is open, drape the **front cover** with a cloth to protect the **drum cartridge** from light.

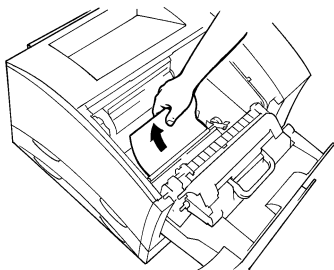
To Be Continued ◆

Clearing a Paper Misfeed

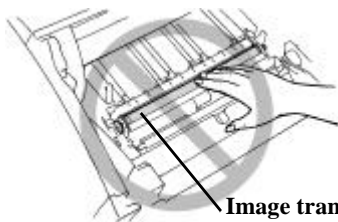
13. Lift the **misfeed clearing lever**.



14. Pull out the paper from the **rear rollers**.



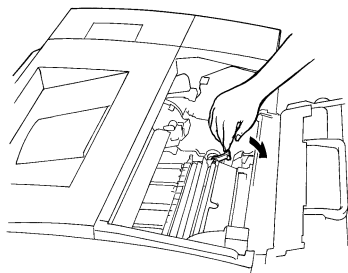
Note



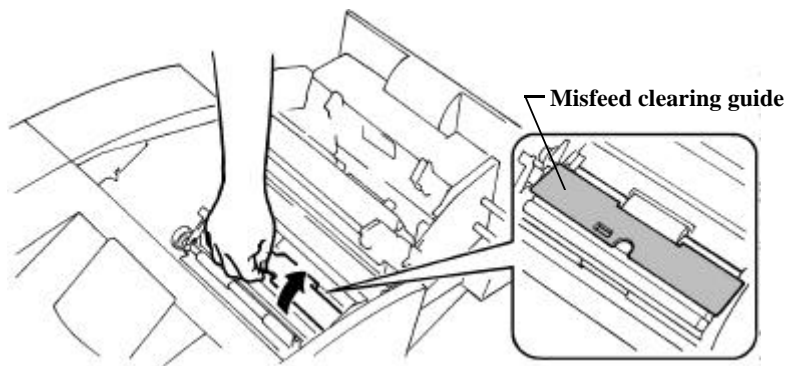
- Do not touch the surface of the **image transfer roller**. It may lead to reduced print quality.

Image transfer roller

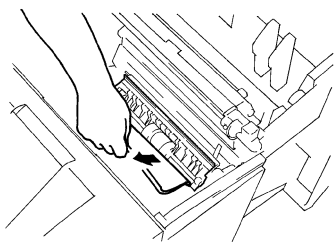
15. Push down on the **misfeed clearing lever**.



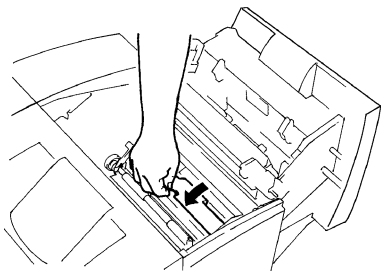
16. Lift the **misfeed clearing guide**.



17. Pull out the paper from the **rollers** toward the top.

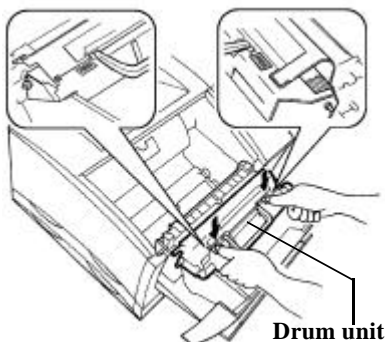


18. Close the **misfeed clearing guide**.



To Be Continued ◆

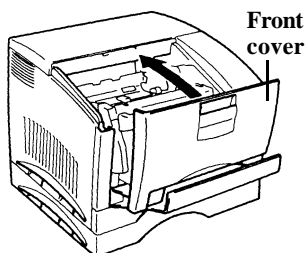
Clearing a Paper Misfeed



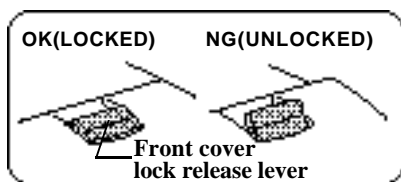
19. After clearing the misfeed, secure the **drum unit** into place by applying pressure at its top where the “**Press**” label is affixed. The **drum unit** will lock into place when it has been correctly inserted into the printer.

Note

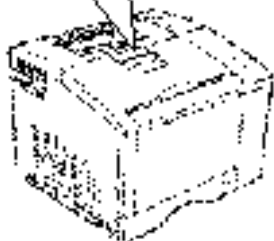
- Before shutting the printer’s exterior cover, make sure that the **drum unit** is securely installed by applying pressure at its top where the “**Press**” label is affixed.



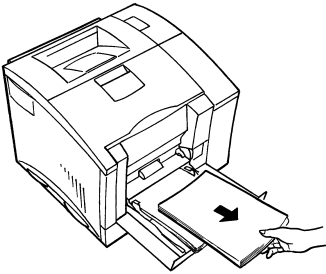
20. Gently close the **front cover**. Do not slam the **front cover** to avoid causing damage to the printer.



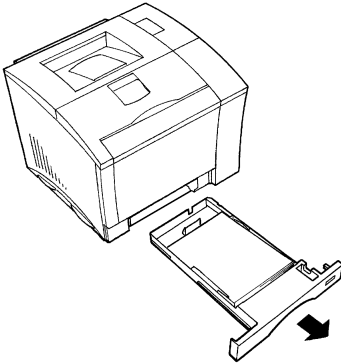
21. Make sure that the **front cover** is completely closed. You will hear the sound of the printer operating.



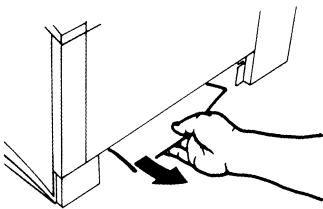
Clearing a Paper Misfeed



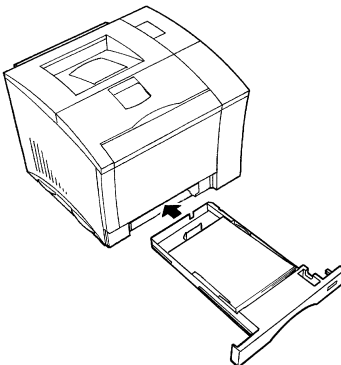
22. Pull out the paper misfed in **Tray 1**.



23. Slide out the second cassette.



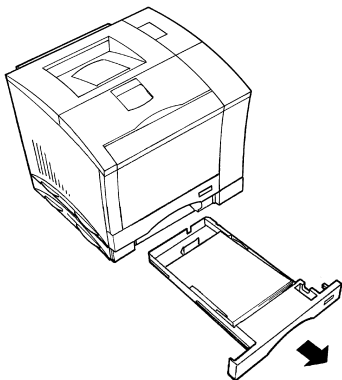
24. Pull out the paper from the paper path toward you.



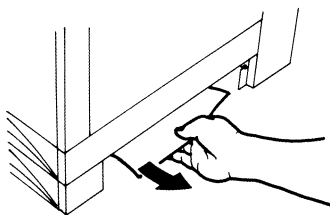
25. Replace the second cassette.

To Be Continued ◆

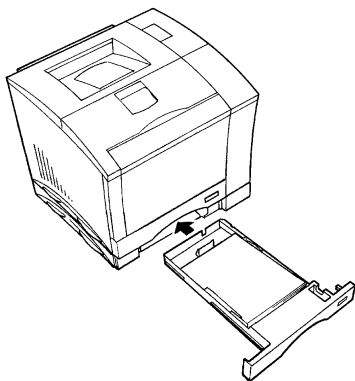
Clearing a Paper Misfeed



26. Slide out the third cassette (option).

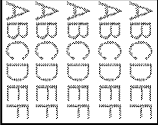







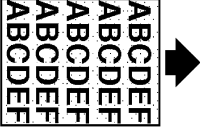
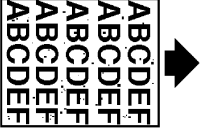
27. Pull out the paper from the paper path toward you.

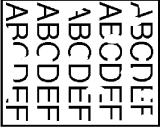
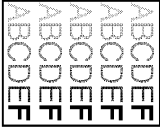


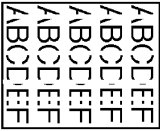
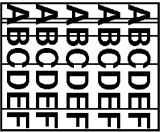
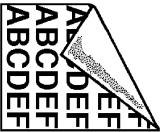
28. Replace the third cassette.

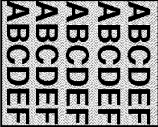


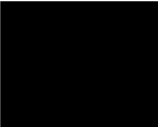






Improving Print Quality

Symptom	Cause	Action
Image is too light 	The brightness setting on the host computer is not set properly.	Adjust the brightness setting on the host computer to the desired level.
	The paper loaded in the tray is damp.	Replace the old paper with fresh, dry paper.  p. 2-23
	The toner cartridge is running out of toner.	Remove the toner cartridge and shake it to better distribute the toner.  p. 4-1
		Replace the old toner cartridge with a new one.  p. 4-1
	The toner cartridge may be defective.	Remove and check the cartridge for damage. Install a new cartridge if necessary.  p. 4-1
	The image transfer roller unit requires replacement.	Change the image transfer roller unit.  p. 4-23

Symptom	Cause	Action
<p>Image is too dark</p> 	<p>The brightness setting on the host computer is not set properly.</p>	<p>Adjust the brightness setting on the host computer to the desired level.</p>
	<p>The toner cartridge may be defective.</p>	<p>Change the cartridges and/or the transfer belt unit.</p>
	<p>The drum cartridge may be defective.</p>	<ul style="list-style-type: none"> • See Toner Cartridge p. 4-1 • See Drum Cartridge p. 4-11
	<p>The image transfer belt unit may be defective.</p>	<ul style="list-style-type: none"> • See Image Transfer Belt Unit p. 4-31
	<p>The image transfer roller unit requires replacement.</p>	<p>Change the image transfer roller unit. p. 4-23</p>
<p>The toner smudges</p> 	<p>The toner cartridge may be defective.</p>	<p>Change the cartridges and/or the transfer belt unit.</p>
	<p>The drum cartridge may be defective.</p>	<ul style="list-style-type: none"> • See Toner Cartridge p. 4-1 • See Drum Cartridge p. 4-11
	<p>The image transfer belt unit may be defective.</p>	<ul style="list-style-type: none"> • See Image Transfer Belt Unit. p. 4-31
	<p>The image transfer roller unit requires replacement.</p>	<p>Change the image transfer roller unit. p. 4-23</p>
	<p>The oiling roller requires replacement.</p>	<p>Change the oiling roller. p. 4-19</p>

Symptom	Cause	Action
Partial void image 	The paper being used does not meet size specifications.	See “Paper” for information regarding paper specifications. ☞p. 2-19
	The paper loaded in the tray is damp.	Replace the old paper with fresh dry paper. ☞p. 2-23
	The toner cartridge may be defective.	Change the cartridges and/or the transfer belt unit. <ul style="list-style-type: none"> • See Toner Cartridge ☞p. 4-1 • See Drum Cartridge ☞p. 4-11 • See Image Transfer Belt Unit ☞p. 4-31
	The drum cartridge may be defective.	
	The image transfer belt unit may be defective.	
	The image transfer roller unit requires replacement.	Change the image transfer roller unit. ☞p. 4-23
Inconsistent image density 	Toner is not distributed evenly inside the cartridge.	Remove the toner cartridge and shake it several times. ☞p. 4-1
	The drum cartridge may be defective.	Change the drum cartridge. ☞p. 4-11
	The image transfer roller unit requires replacement.	Change the image transfer roller unit. ☞p. 4-23

Symptom	Cause	Action	
White lines 	The toner cartridge may be defective.	Change the cartridges and/or the transfer belt unit. <ul style="list-style-type: none"> • See Toner Cartridge [p. 4-1] • See Drum Cartridge [p. 4-11] • See Image Transfer Belt Unit [p. 4-31] 	
	The drum cartridge may be defective.		
	The image transfer belt unit may be defective.		
	The image transfer roller unit requires replacement.		Change the image transfer roller unit. [p. 4-23]
Black (or color) stripes 	The printer's internal paper path is dirty.	Run several prints to flush out the debris.	
	The toner cartridge may be defective.	Change the cartridges and/or the transfer belt unit. <ul style="list-style-type: none"> • See Toner Cartridge [p. 4-1] • See Drum Cartridge [p. 4-11] • See Image Transfer Belt Unit [p. 4-31] 	
	The drum cartridge may be defective.		
	The image transfer belt unit may be defective.		
	The image transfer roller unit requires replacement.		Change the image transfer roller unit. [p. 4-23]
	The oiling roller requires replacement.		Change the oiling roller. [p. 4-19]
Soiled back side 	The printer's internal paper path is dirty.	Run several prints to flush out the debris.	
	The oiling roller requires replacement.	Change the oiling roller. [p. 4-19]	

Symptom	Cause	Action
Blurred back-ground 	The toner cartridge may be defective.	Change the cartridges. <ul style="list-style-type: none"> • See Toner Cartridge  p. 4-1 • See Drum Cartridge  p. 4-11
	The drum cartridge may be defective.	
Black pages 	The toner cartridge may be defective.	Change the cartridges. <ul style="list-style-type: none"> • See Toner Cartridge  p. 4-1 • See Drum Cartridge  p. 4-11
	The drum cartridge may be defective.	
Blank pages 	The drum cartridge may be defective.	Change the cartridges and/or the transfer belt unit. <ul style="list-style-type: none"> • See Drum Cartridge  p. 4-11 • See Image Transfer Roller Unit  p. 4-23 • See Image Transfer Belt Unit  p. 4-31
	The image transfer roller unit may be defective.	
	The image transfer belt unit may be defective.	
The Image is coarse.	Too much data. The printer cannot fully process the image with the present memory capacity.	Install the optional expansion memory.
Graphics are omitted (printout is text only).	The printer is receiving EPS graphic data.	Print the document using the Minolta Color Page-Works/Pro L [PSCRIPT] driver.

Symptom	Cause	Action
Paper wrinkles during printing.	<p>Possible causes include:</p> <ul style="list-style-type: none"> • Paper is not the proper size. • Paper is not loaded properly in the tray. • The fusing unit requires replacement. 	<p>Check these conditions closely and take necessary action.</p> <ul style="list-style-type: none"> • Regarding paper size, see “Paper” p. 2-19 • See “Loading Paper”. p. 2-23 • See “Changing the Fusing Unit”. p. 4-26
The print image is not fixed and easily smears.	The paper loaded in the tray is damp.	Replace the old paper with fresh dry paper. p. 2-23
	The paper being used is not compatible with the printer.	See “Paper” for compatible types of paper. p. 2-19
	The fusing unit requires replacement.	Change the fusing unit. p. 4-23
Incorrect image registration (lines are broken or characters are out of position).	The print parameters and paper settings of the application software are different from the settings on the control panel.	Make sure that the settings for the application software correspond with the control panel settings, especially the media options.
The printer takes too long to output prints.	The printer was in Power Save mode when the print command was issued.	Wait a few moments.
	The printer setting was for color transparency (transparency sheet) or thick paper printing.	Wait a few moments.
		Change the Print Media setting in the printer driver.
	The amount of memory installed is not sufficient to process the print data.	Install the optional expansion memory, which will allow the print cycle to run faster.

Chapter

Specifications

6

Specifications of Printer

- Type:** Desktop full color laser beam printer
- Printing system:** Electrostatic dry powdered imaging system
- Exposure system:** Laser diode and polygon mirror scanning
- Print density:** 600 dpi × 600 dpi
1,200 dpi × 600 dpi
2,400 dpi × 600 dpi
- dpi = dot/inch
- Paper feeding system:** 2-way system
(TRAY 1: multipurpose tray,
TRAY 2: 250-sheet second cassette)

Paper size:

Standard size:

A4, A5, JIS B5, Letter 8-1/2" × 11", Legal 8-1/2" × 14",

Executive 7-1/4" × 10-1/2"

Invoice 8-1/2" × 5-1/2"

*All paper sizes are lengthwise only.

Paper feeding port	A4	JIS B5	A5	Legal*¹	Letter	Execu-tive	Invoice
Tray 1	○	○	○	○	○	○	○
Tray 2	○	None	None	○	○	None	None
Tray 3*²	○	None	None	○	○	None	None

*¹ Does not support legal size thick paper.

*² Optional 250-sheet third cassette unit

Paper types:

- Plain paper 60 to 90 g/m² (16 to 24 lbs.),
- Recycled paper 60 to 90 g/m² (16 to 24 lbs.),
- Thick paper 90 to 157 g/m² (24-1/4 to 41-3/4 lbs.),
- Transparencies sheet, Labels, Letterhead, Envelopes,
- J-Post (postcard 100 × 148 mm, 4" × 5-3/4")

Paper feeding port	Plain-paper	Special paper						
		Recycled paper	Transparency sheet	Labels	Letter-head	Envelopes	J-Post (Post-card)	Thick paper ^{*3}
Tray 1	○	○	○	○	○	○	○	○
Tray 2	○	○	○	None	None	None	None	None
Tray 3 ^{*4}	○	○	○	None	None	None	None	None

*3 Does not support legal size thick paper.

*4 Optional 250-sheet third cassette unit

Paper capacity:

Paper feeding port	Plain-paper	Special paper						
		Recycled paper	Transparency sheet	Labels	Letter-head	Envelopes	J-Post (Post-card)	Thick paper ^{*5}
Tray 1	150	150	50	50	50	20	50	50
Tray 2	250	250	50	None	None	None	None	None
Tray 3 ^{*6}	250	250	50	None	None	None	None	None

*5 Does not support legal size thick paper.

*6 Optional 250-sheet third cassette unit

Specifications of Printer

Paper exit system: Face down exit system (Plain Paper 250 print maximum)

System speed: 77 mm/ seconds

First printing time:

print type \ paper size	A4/ Letter	Legal
Monochrome (plain paper)	32 seconds or less	38 seconds or less
Monochrome (thick paper)	58 seconds or less	None
Full color (plain paper)	42 seconds or less	None
Full color (transparency sheet)	72 seconds or less	None

Multi printing time:

print type \ paper size	A4/ Letter	Legal
Monochrome (plain paper)	12.0 s/m or more	6.0 s/m or more
Monochrome (thick paper)	1.3 s/m or more	None
Full color (plain paper)	3.0 s/m or more	None
Full color (transparency sheet)	0.97 s/m or more	None

Unit: sheets/minute

Warm-up time: Within 90 seconds (when power is supplied at 23°C / 73.4° F)

Developing system: Fine Micro Toning system

PC drum: OPC (Organic Photoconductor)

PC charging system: Rotation brush charging system

Image transfer system: Belt image transfer system, and roller image transfer system

PC drum cleaning system: Cleaning blade system

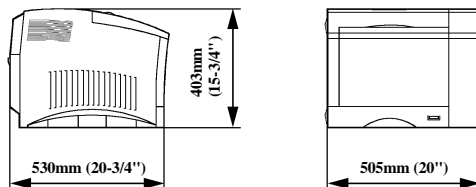
Paper separating System: Curvature separating system and charge neutralizing pin

Fusing system:	Heat belt fusing system
Acoustic noise:	39 dB (A) or less (idle state)/ 55 dB (A) or less (during operation)
Power supply:	AC 120V 50/60Hz 7.5A
Power consumption:	During operation 800W or less/ during idle state (average), 45W or less (when the heater lamp is OFF)
CPU:	Hitachi HD6437034F20/20 MHz
Memory:	<ul style="list-style-type: none">• ROM 64 KB• DRAM 16.512 MB• SRAM 64 KB (for mode settings and counters, PM-2mj buffer)
Interpreters:	<ul style="list-style-type: none">• GDI
Interface:	<ul style="list-style-type: none">• Parallel (type C connector) -IEEE 1284 (for Windows 95, Windows 98 and Windows NT Work- station 4.0) ECP/EPP, compatible mode• Network (option) -Ethernet 10/100BaseT -TCP/IP, SPX/IPX -Windows 95 and Windows 98 Peer to Peer support
Fonts:	PC internal font
Image data compression:	PM-2mj (Pixel Magic) JBIG compres- sion
Host Computer OS:	Windows 95, Windows 98, Windows NT Workstation 4.0
Features:	Power saving mode for Energy Star application

Supply replacement:

- Drum cartridge :
 - Monochrome prints : after 20,000 sheets
(when the black-to-white ratio is 5% on multi prints)
 - Full color prints : after 5,000 sheets
(when the color-to-white ratio is 20% on multi prints)
- Black toner cartridge : after 4,500 sheets
(when the black-to-white ratio is 5% on multi prints)
- Color toner cartridge (Yellow/ Magenta/ Cyan) : after 3,500 sheets
(when the color-to-white ratio is 20% on multi prints)
- Waste bottle :
 - Monochrome prints to 20,000 sheets
(when the black-to-white ratio is 5% on multi prints)
 - Full color prints to 5,000 sheets
(when the color-to-white ratio is 20% on multi prints)
- Oiling roller :
 - Monochrome prints to 20,000 sheets
(when the black-to-white ratio is 5% on multi prints)
 - Full color prints to 5,000 sheets
(when the color-to-white ratio is 20% on multi prints)
- Image transfer belt unit : after 150,000 images
- Image transfer roller unit : after 100,000 prints
- Fusing unit : after 100,000 prints

Dimensions: Width 505 mm (20"), Depth 530 mm (20-3/4"), Height 403 mm (15-3/4")



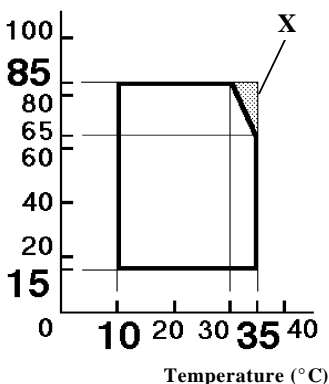
Weight: Approximately 35 kg (77-1/4 lbs.) including the drum cartridge and toner cartridge

Operating environment:

Temperature: 10°C (50°F) to 35°C (86°F) with a fluctuation of 10°C (18°F) per hour.

Humidity: 15% to 85% RH with a fluctuation of 20% per hour.

Humidity (%)



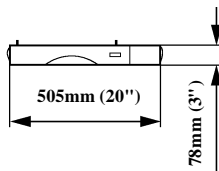
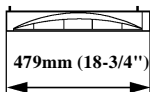
* The environmental zone marked by "X" on the left represents a critical environment in which the printer can be left to stand. However, the manufacturer does not ensure optimal paper passage performance and image production in this zone. Be sure to operate the printer within the operating environment identified within the bold line.

Options:

- 250-sheet third cassette unit
- Network card

Specifications of 250-sheet Third Cassette Unit

- Paper feeding system:** 1-way system
- Paper types:** Plain paper, recycled paper 60-90 g/m² (16 to 24 lbs.), transparency sheet
- Paper size:** A4, letter 8-1/2" × 11",
legal 8-1/2" × 14"
*All paper sizes are lengthwise only
- Paper capacity:** Plain and recycled paper/250 sheets,
transparency sheet/50 sheets
- Power supply:** Supplied from the printer
- Dimensions:** Width 505 mm (20"), Depth 479 mm (18-3/4"), Height 78 mm (3")



- Weight:** Approx. 6.2 kg (13-3/4 lbs.) including the Cassette

Appendix

Glossary

A

Glossary

The following definitions apply specifically to Minolta Color PageWorks/Pro L Printers.

Black gloss level

The gloss levels for the color black between shiny and flat. Photographs often look best printed with a shiny black. Text is usually best printed with a flat, non-reflective black. The black gloss level can be adjusted in the Image Content dialog.

Brightness

The brightness or darkness of an image. Decreasing brightness darkens the overall image. Increasing brightness lightens the overall image.

CMY

Cyan, magenta, and yellow. These color toners are used to create the subtractive system array of printed colors.

Default

A setting automatically used when you or your application software do not make a selection.

Drum

The part of the printer mechanism where the image is formed.

Fusing unit

The internal part of a page printer that bonds the toner to the paper. It consists of heat and pressure rollers that the paper passes through after toner has been applied.

Image Color Matching

The Windows standard color control features used to produce the highest quality color output for photographs.

Image Transfer unit

The part inside of a page printer that transfers the image from the photoconductive drum to the paper.

Interface

The means by which information is transferred from one part of a system to another. Refers to the format and procedure for transmitting data as well as the hardware used to enable the transmission.

Interface connector

The part used to connect a kind of cable for data transfer from another system.

Local printer

A printer that is directly connected to your computer, as opposed to a remote or network printer.

Media

Materials upon which data is printed, such as envelopes, plain paper, thick paper, and transparency film.

Network interface card

A part that is installed in the computer in order for the computer to be connected to a network environment.

Orientation

The direction of print on a page. Printing such that the shorter edges of the paper are at the top and bottom is called portrait orientation. Printing such that the longer edges of the paper are at the top and bottom is called landscape orientation.

Power Save

This is a setting which is used to conserve energy by enabling the printer to operate in a “power save mode” during a specified period.

Printable area

The area of the page in which the printer is able to print. Page printers have a nonprint margin typically about 0.2 inch (5 mm) wide on each edge of the paper. The printable area is the space within these margins.

Printer driver

A set of instructions in application software that translates formatting choices into printer commands. When installing the application, the user identifies the type of printer being used so that the application knows which printer driver to use.

Print job

A document that a application has processed and sent either directly to the printer or to the print queue.

RAM

Random Access Memory. The portion of the printer's memory used as a buffer and for storing user-defined characters. All data stored in RAM is lost when the printer is turned off.

Resolution

Refers to printing clarity. Resolution depends on the number of dots per inch. High resolution (more dots) is finer and more precise than low resolution, which is coarser with rougher edges.

ROM

Read Only Memory. A portion of memory that can only be read and cannot be used for data storage. ROM retains its contents when you turn off the printer.

Saturation

The level of color vividness.

Spooling

Sending a document to the print queue rather than directly to the printer. Windows 95 and Windows 98 stores the print queue on the hard disk and then sends the print jobs to the printer in the order received. Spooling frees the application you are using for other tasks.

Appendix

Quick Reference

B

The LED Display

The LED display of the control panel is an important tool for identifying the operating status of your printer. Use the LED display in combination with the Troubleshooting chapter of this manual to maintain the high level of performance that your printer was engineered to provide.

Indicator lights



On



Off






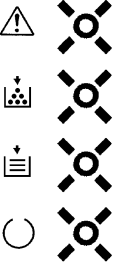
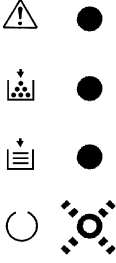
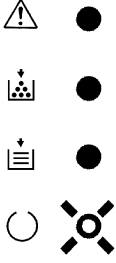



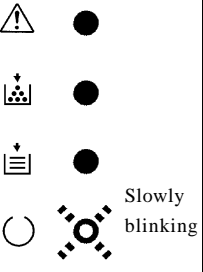
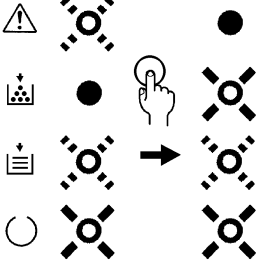
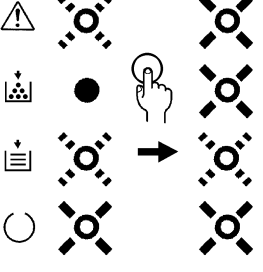



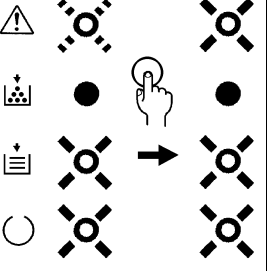
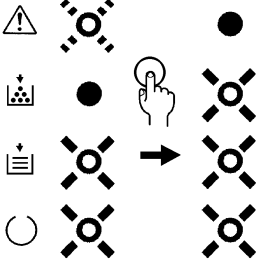
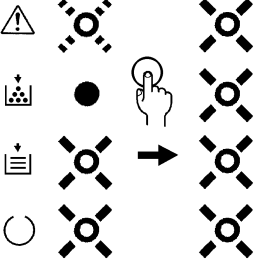
Blinking

Action key


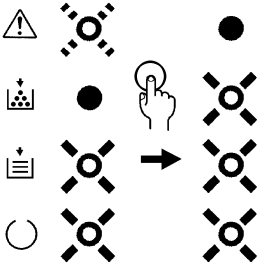

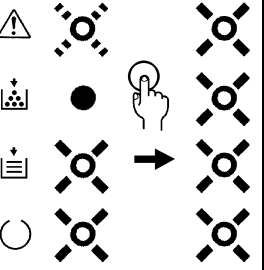

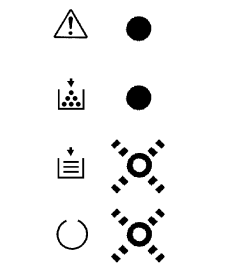

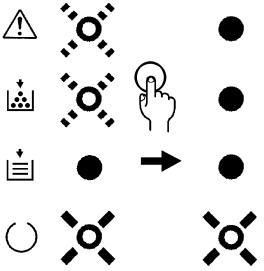

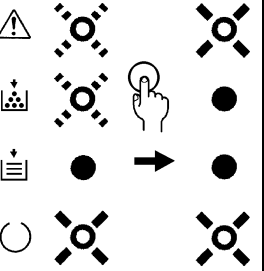

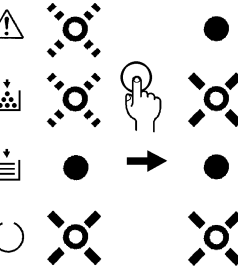

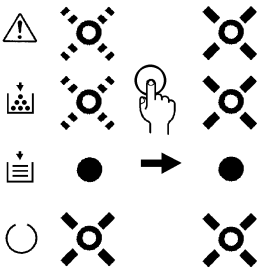

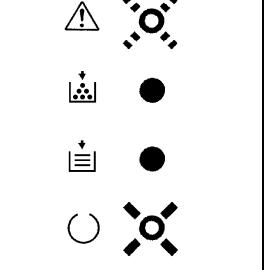


- The LED display will change as you push the Action key.
- The appearance of this icon throughout this manual indicates when you need to press the Action key.












































































○ ⊗ When the Ready LED is on (1/2)

Initializing  p. 5-6	Warming Up  p. 5-6	Ready  p. 5-6
		
Power Save  p. 5-7	Tray 2 Paper Low  p. 5-7	Tray 3 Paper Low  p. 5-7
 <p>Slowly blinking</p>		
Tray 1 Paper Empty  pp. 2-23, 2-32, 2-40, 5-8	Tray 2 Paper Empty  pp. 2-26, 2-35, 5-8	Tray 3 Paper Empty  pp. 2-26, 2-35, 5-8
		


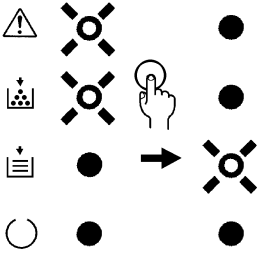

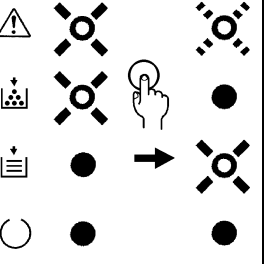

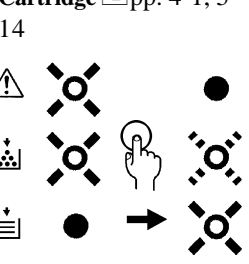

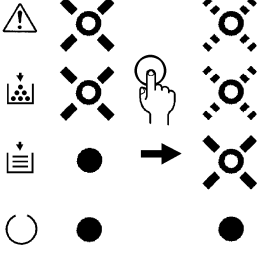

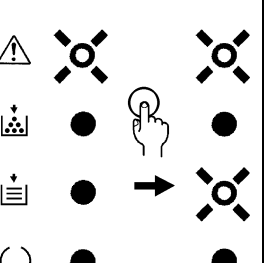

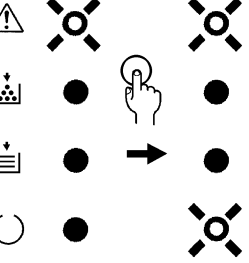

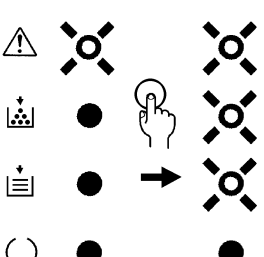

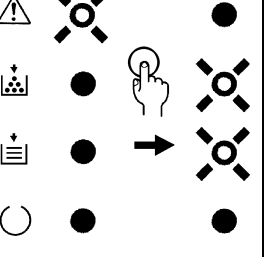

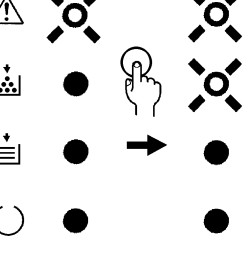
○ ⊗ When the Ready LED is on (2/2)

<p>No Tray 2  p. 5-9</p> 	<p>No Tray 3  p. 5-9</p> 	<p>Wait Action  p. 5-9</p> 
<p>Black Toner Low  pp. 4-1, 5-10</p> 	<p>Yellow Toner Low  pp. 4-1, 5-10</p> 	<p>Magenta Toner Low  pp. 4-1, 5-10</p> 
<p>Cyan Toner Low  pp. 4-1, 5-10</p> 	<p>Drum Cartridge Almost Used  pp. 4-11, 5-11</p> 	<p>—</p>


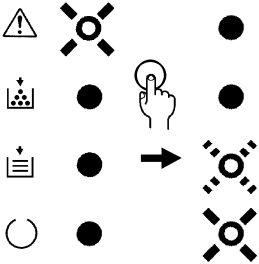

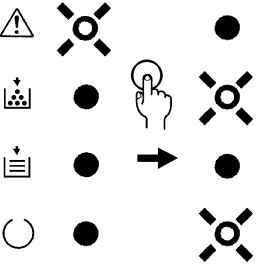

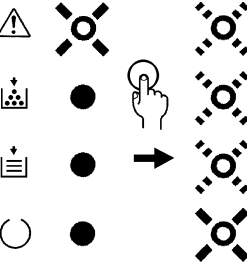

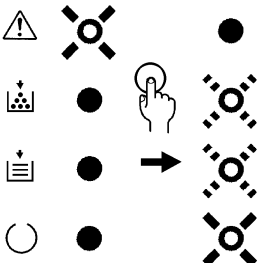

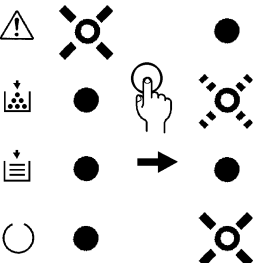

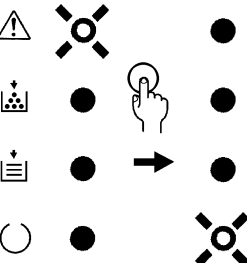

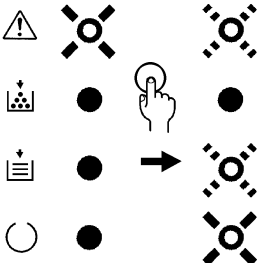

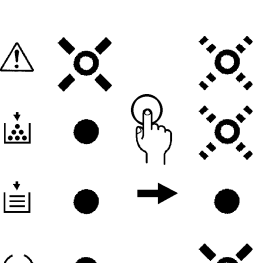

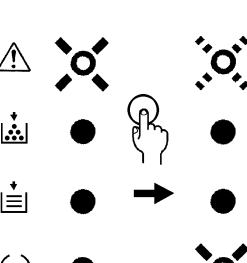
  When the Error LED is on (1/2)

<p>Paper Misfeed 1  pp. 5-12, 5-21</p>     ●  ●   ● → ●   ● ● 	<p>Paper Misfeed 2  pp. 5-12, 5-21</p>     ●  ●   ● → ●   ● ● 	<p>Paper Misfeed 3  pp. 5-12, 5-21</p>     ●  ●   ● →   ● ● 
<p>Video Under Run  p. 5-13</p>     ●    ● → ●   ● 	<p>Warning Cover Open  pp. 2-1, 2-3, 5-13</p>   ●   ●  ●   ● →   ● ● 	<p>Paper Size Error  pp. 2-23, 5-13</p>   ●   ●    ● → ●   ● ● 
<p>Size Mismatch  pp. 2-23, 5-13</p>    ●     	<p>—</p>	<p>—</p>

  When the Error LED is on (2/2)

<p>Replace Black Toner/ Put Black Toner Car- tridge  pp. 4-1, 5-14</p> 	<p>Replace Yellow Toner/ Put Yellow Toner Car- tridge  pp. 4-1, 5-14</p> 	<p>Replace Magenta Toner/ Put Magenta Toner Cartridge  pp. 4-1, 5-14</p> 
<p>Replace Cyan Toner/ Put Cyan Toner Car- tridge  pp. 4-1, 5-14</p> 	<p>Need Oiling Roller  pp. 4-11, 4-23, 5-15</p> 	<p>Full Waste Bottle  pp. 4-11, 5-15</p> 
<p>Replace Drum Car- tridge/Put Drum Car- tridge  pp. 4-11, 5-15</p> 	<p>NO ERROR (NETWORK)  pp. 2-17, 5-17</p> 	<p>I/O Error (Parallel)  pp. 2-17, 5-17</p> 

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MEMO
