
magicolor[®] 2200

DeskLaser

User's Guide

1800622-001A

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Registering the Printer

Mail—Fill out and send in the registration card enclosed in your shipment.

Internet—www.minolta-qms.com/support/prodreg (US only)



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Replacing Consumables

1

Consumable Life Expectancies

The stated life expectancy of each consumable is based on printing under specific operating conditions, such as media type, number of color planes, page size, and page coverage (@ normal 5% coverage of letter/A4-size media). The actual life expectancy will vary depending on these and other printing variables, including continuous or intermittent printing, higher than normal coverage, ambient temperature, and humidity.

Replacing Consumables

Attention

Failure to follow instructions as outlined in the *User's Guide* could result in voiding your warranty.

The following messages indicate that a consumable needs to be replaced:

Item/Message Display	This item needs replacing by user after...	Page Reference
Fuser oil roller REPLACE OIL ROLLER	FUSER OIL LOW, FUSER OIL EMPTY, or REPLACE OIL ROLLER displays in the message window (after up to 21,000 single-sided continuous monochrome or 7,500 continuous color pages, or 7,000 intermittent monochrome or 5,000 intermittent color pages). Heavy coverage, intermittent printing, and different media types can use up oil at an accelerated rate, reducing fuser oil roller life.	"Replacing the Fuser Oil Roller" on page 24
Fuser unit/transfer roller kit REPLACE FUSER UNIT	100,000 single-sided pages maximum at an equal mix of black and 4-color pages, all with 5% coverage of each color; however, fuser unit life is coverage and media dependent).	"Replacing the Fuser Unit and Transfer Roller Kit" on page 17
OPC drum kit (OPC drum, laser lens cover, waste toner pack) REPLACE OPC DRUM REPLACE WASTE TONER WASTE TONER NEAR FULL	Up to 30,000 continuous monochrome or 7,500 continuous four-color pages, or 10,000 intermittent [one-page jobs] monochrome or 5,000 intermittent [one-page jobs] color pages. Other factors also affect OPC drum kit component life.	"Replacing the OPC Drum, Laser Lens Cover, and Waste Toner Pack" on page 8

Item/Message Display	This item needs replacing by user after...	Page Reference
Toner <COLOR> TONER EMPTY	Approximately 6,000 single-sided pages per cartridge—black, yellow, magenta, cyan at 5% coverage of each color.	“Replacing Toner Cartridges” on page 3
Transfer belt REPLACE TRANSFER BELT	100,000 single-sided images (1:1 color/monochrome printing).	“Replacing the Transfer Belt” on page 26

*A **plane** (also called an **image**) is a single **pass** of the OPC drum (one toner color). For example, a black-only, single-sided (simplex) print job makes one pass, and a two-color (duplex) print job makes four passes. A single-sided color **page** (also called a **face**) consists of four passes of the OPC drum, since most color print jobs use all four toner colors. A two-sided color page may consist of up to eight passes of the OPC drum, since most color print jobs use all four toner colors. Stated consumable life is expressed at 5% in simplex letter/A4 pages. A duplex page is equivalent to two simplex pages.

The number of sheets/faces printed shown on the startup page differs from the number of sheets/faces printed statistics in CrownView. The numbers on the startup page refer to number of sheets/faces printed during the lifetime of the printer. The numbers in CrownView refer to the number of sheets/faces printed to date during the current consumables tracking period.

Ordering Consumables

Choosing the right consumables for your magicolor 2200 DeskLaser printer not only increases its reliability and performance, but also minimizes the risk of damage.

For example, only MINOLTA-QMS toner cartridges are designed to meet the exact specifications of your MINOLTA-QMS printer, giving maximum performance, efficiency, and long life.

Toner cartridges and other consumables for the magicolor 2200 DeskLaser are available from your local vendor or Q-SHOP (www.q-shop.com). See the *Service & Support Guide* for the telephone number of the MINOLTA-QMS office nearest you for information on ordering.

Replacing Toner Cartridges

Characters and images are created in your laser printer through a process that applies toner to the photosensitive (OPC) drum (which functions like photographic film). Your printer

uses four toner cartridges: black, yellow, magenta, and cyan. Handle the toner cartridges carefully to avoid spilling toner inside the printer or on yourself.



The carbon-particle toner is nontoxic. If you get toner on your hands, wash them in cool water or a neutral detergent. If you get toner on your clothes, lightly dust them off as much as possible. If some toner remains on your clothes, use cool, not hot water, to rinse the toner off, provided your clothing is washable.

Attention

If you get toner in your eyes, wash it out immediately and consult a doctor. Material Safety Data Sheets (MSDS) information can be found at www.minolta-qms.com (click on the Answer Base).

Toner Cartridge Life

A toner cartridge contains enough toner (yellow, magenta, cyan, or black) to print a maximum of 6,000 (@ normal 5% page coverage) letter/A4-size pages.

When toner runs low in a cartridge, **X TONER LOW** displays in the message window (**X** indicates the toner color). It's your option whether to continue printing; usually, parts of the page print lighter.

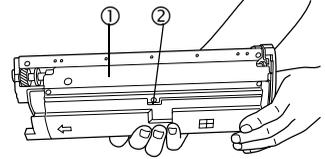
When toner is low, it's sometimes helpful to take the cartridge out of the printer and redistribute the toner by gently rocking the cartridge horizontally side to side (as you do for a new cartridge) five or six times. Then reinstall the cartridge.

The printer, approximately 100 pages after detecting that toner in a cartridge is low, displays **X TONER EMPTY** in the message window (**X** indicates the toner color). Printing continues even though the out-of-toner warning appears. However, the color gradually fades, so replace the toner cartridge as soon as possible.

Toner Cartridge Handling

⚠ Attention

Do not hold a toner cartridge vertically. Do not touch the toner roller surface ① or the protective shutter ②. This could lower image quality.



Keep toner cartridges:

- In their packaging until you're ready to install them
- In a cool, dry location away from sunlight (due to heat)

The maximum storage temperature is 95° F (35° C) and the maximum storage humidity is 80% without condensation.

- Level during storage

Do not stand or store cartridges on their ends or turn them upside down; the toner inside the cartridges may become caked or unequally distributed.

- Away from salty air and corrosive gases such as aerosols
- Away from disk drives and floppy disks

The magnets in the cartridges can damage stored data.

Toner Cartridge Replacement

- 1 Check the message display to see what toner color is out.
- 2 Open the printer's front cover.

⚠ Attention

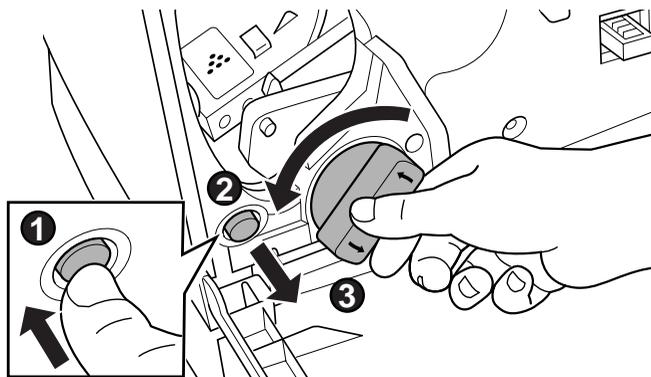
Be careful not to spill toner on the inside of the printer's front cover. Toner will fall from there into the upper media tray. If toner does fall onto the open cover, immediately wipe it with a dry, lint-free soft cotton cloth or swabs.

If the toner cartridge you want to replace is the one showing, go to step 5. If not, go to step 3.

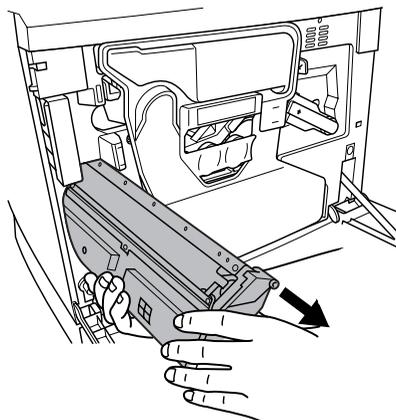
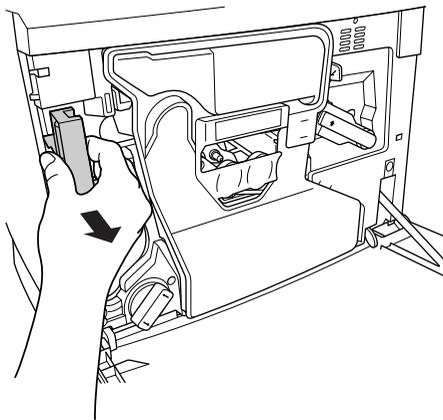
- 3 Press the toner cartridge carousel button ① and release the button ② before turning the carousel dial ③ counterclockwise until it stops.

The carousel rotates 90° and stops.

The toner cartridge carousel may start to turn automatically from the weight of the inserted toner cartridge. Make sure you have fully turned to the next slot before trying to insert another toner cartridge.



- 4 Repeat step 3 until the color to be replaced is visible.
- 5 Pull the release lever to eject the toner cartridge you are going to replace.



 *Dispose of it properly according to your local regulations (do not dispose of it by burning).*

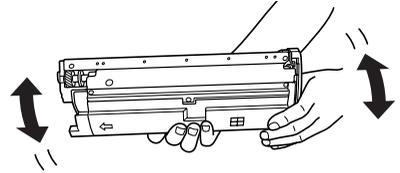
- 6 Remove the new toner cartridge from its shipping carton.

- 7 Distribute the toner inside the cartridge.

Holding a cartridge with both hands, gently shake it five or six times.



Each toner cartridge has a colored end that corresponds to a colored label inside the cartridge slots. Always install the toner cartridge in the slot with a label of the same color.



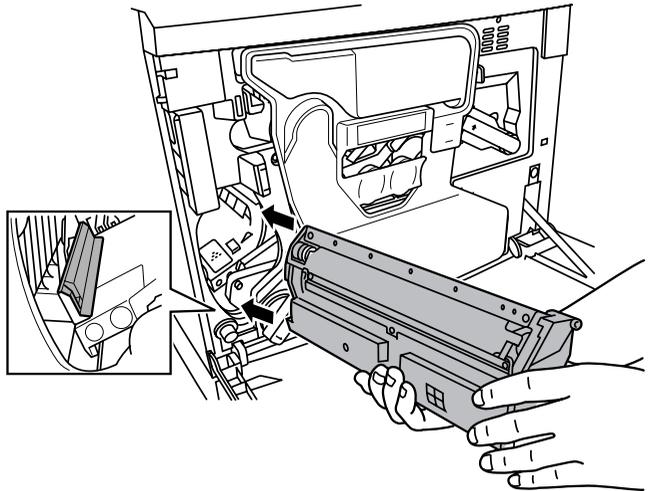
- 8 Place the front end of the toner cartridge installation guides into the cartridge installation rails on the cartridge carousel.

- 9 Gently push the new cartridge into the printer.

- 10 Close the printer's front cover.

- 11 Check the status message in the message window.

If a toner alert message is displayed, use the Service/Clear care menu to remove it.



Refilled Toner Cartridges

Use of consumables not manufactured by MINOLTA-QMS may cause damage to your printer and void your warranty. If MINOLTA-QMS printer failure or damage is found to be directly attributable to the use of non-MINOLTA-QMS consumables, MINOLTA-QMS will not repair the printer free of charge. In this case, standard time and material charges will be applied to service your printer for that particular failure or damage.

Replacing the OPC Drum, Laser Lens Cover, and Waste Toner Pack

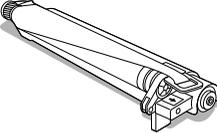
Attention

The OPC drum is extremely sensitive to bright light and direct sunlight. Always leave it in its protective bag until you're ready to install it. Any exposure to light should be avoided, or permanent damage could result. Any damage resulting from mishandling of the OPC drum will void the warranty of the OPC drum. Also, handle the cartridge carefully by its sides so you don't touch the surface (the green part) of the drum. The drum is also extremely sensitive to hand oils and scratches, both of which reduce print quality.

When the OPC drum is worn out, the message `REPLACE DRUM` appears. The printer will not print until the drum kit is replaced.

When you replace the OPC drum cartridge after a `DRUM LOW` or `REPLACE DRUM` message displays in the message window, the printer automatically recovers. However, the replaced waste toner pack consumables monitoring system must be reset.

The three items below are included in the OPC drum kit. If one needs replacing, replace all three items.

Waste toner pack	OPC drum cartridge	Laser lens cover
		

The OPC drum life is directly related to the number of rotations of the drum. Longest drum life is achieved with continuous printing. Intermittent printing with small job sizes requires cleaning rotations before and after each job, and subsequently will impact OPC life.

The steps are:

- Removing the used waste toner pack
- Removing the used OPC drum cartridge

- Removing the laser lens cover
- Installing the laser lens cover
- Installing the new OPC drum cartridge
- Installing the new waste toner pack

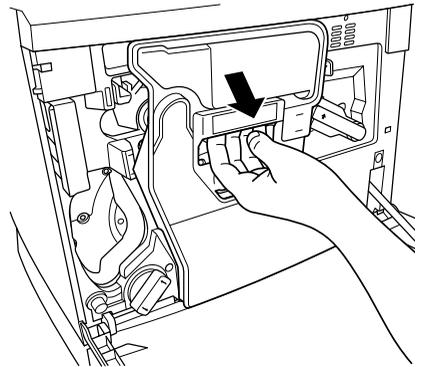
Removing the Used Waste Toner Pack



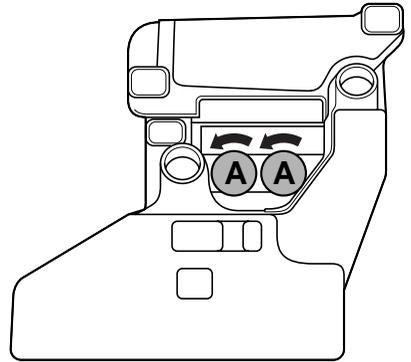
When the waste toner pack is nearly full, the message “WASTE TONER NEAR FULL” appears. Prepare to replace the entire OPC drum kit.

- 1 Turn off the printer.
- 2 Open the printer’s front cover.
- 3 Carefully remove the waste toner pack using the handle.

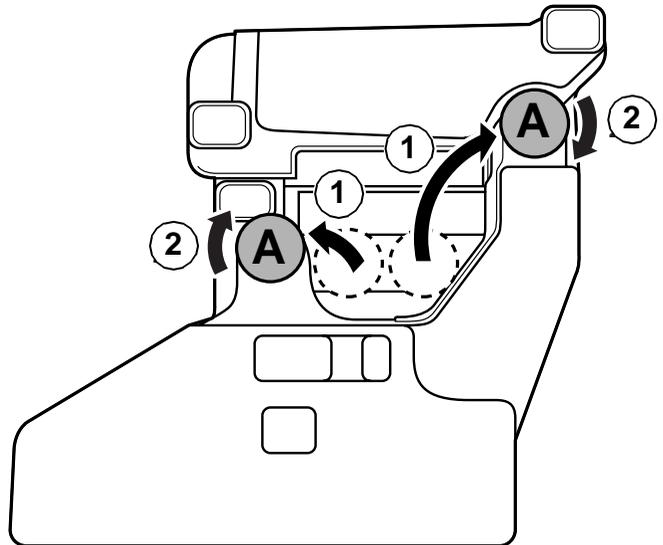
Keep the waste toner pack upright so the toner does not spill.



- 4 Turn the two caps labeled “A” counterclockwise and remove them.



- 5 Twist the two “A” caps ① onto the two holes ② labelled “A.”
Turn the caps clockwise to secure them.



6 Remove waste toner pack cap labeled “B” and insert it into hole “B.”

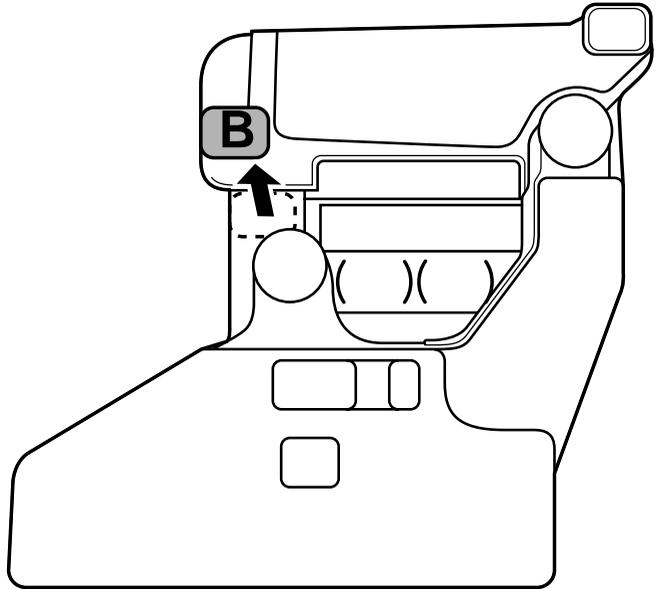
7 Dispose of the used waste toner pack.



Dispose of it properly according to your local regulations (do not dispose of it by burning).

8 Continue with replacing the OPC drum cartridge.

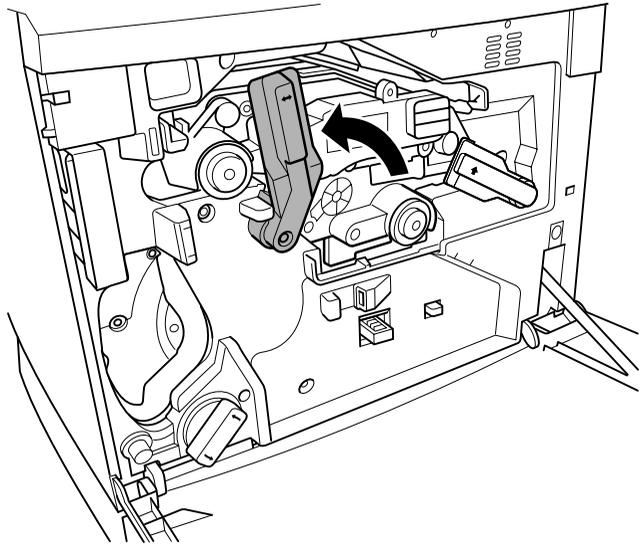
Reinstall the new waste toner pack after replacing the OPC drum.



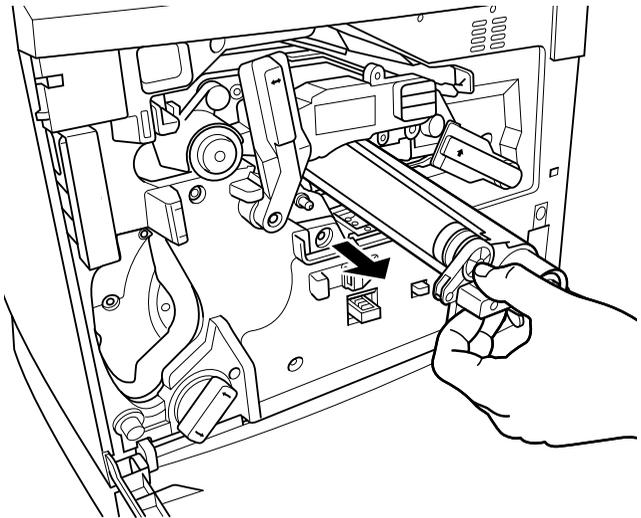
Removing the Used OPC Drum Cartridge

- 1 With the front cover open, rotate the transfer belt unit left release lever counterclockwise to the top (12 o'clock) position.

This raises the transfer belt unit.

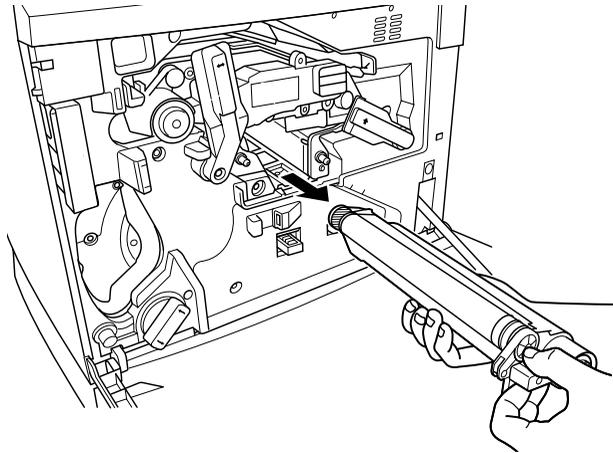


- 2 Hold the OPC drum cartridge handle with your left hand and carefully pull it out about 8 inches (20 cm).



- 3 Keep your left hand in place and support the bottom of the drum with your right hand, then carefully pull the cartridge toward you and remove it.

 *Dispose of it properly according to your local regulations.*

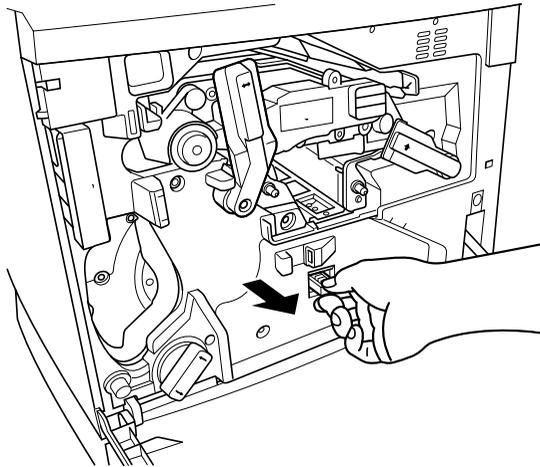


Removing and Installing the Laser Lens Cover

- 1 Press on the laser lens cover lock release lever and gently pull the laser lens cover toward you.

 *Dispose of it properly according to your local regulations.*

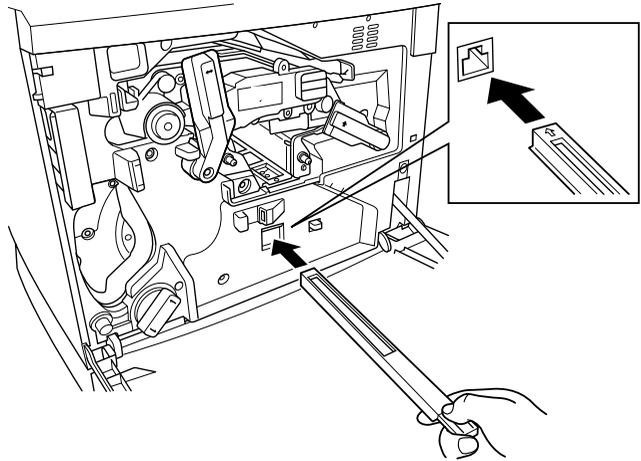
- 2 Remove the new laser lens cover from the OPC drum kit box.



Attention

Do not touch the glass surface of the laser lens.

- 3 Place the front end of the laser lens cover into its installation rail.
- 4 Carefully insert the laser lens cover and make sure it is fully inserted.



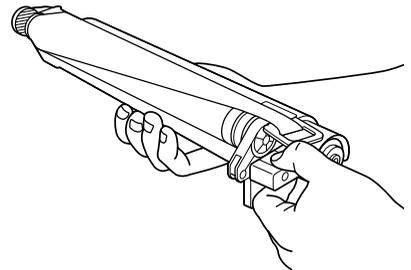
⚠ Attention

If the laser lens cover is not properly installed, serious damage to the printer could result.

Installing the New OPC Drum Cartridge



- 1 Remove the new OPC drum cartridge from its shipping box.

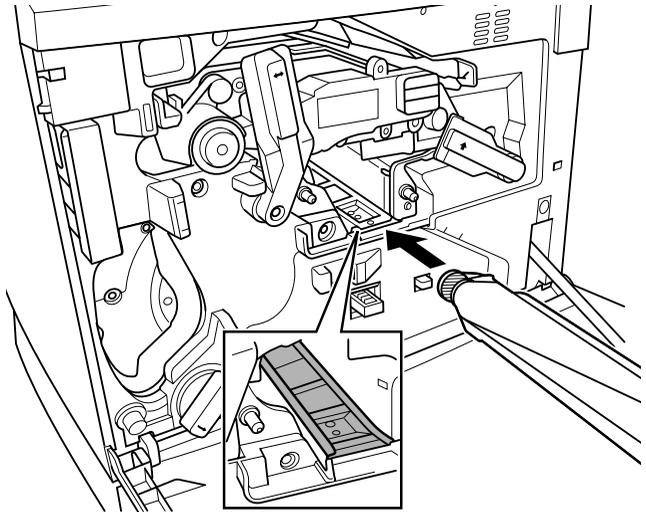


⚠ Attention

Keep the protective sheet on the cartridge. Do not touch the protective sheet on the photosensitive (green) surface or scratch the surface. This could lower image quality.

Make sure the transfer belt left release lever is still set to its top position (12 o'clock).

- 2 Hold the OPC drum cartridge level, place the front end of the OPC drum cartridge installation guide into the installation rail.
- 3 Carefully push the OPC drum cartridge in.

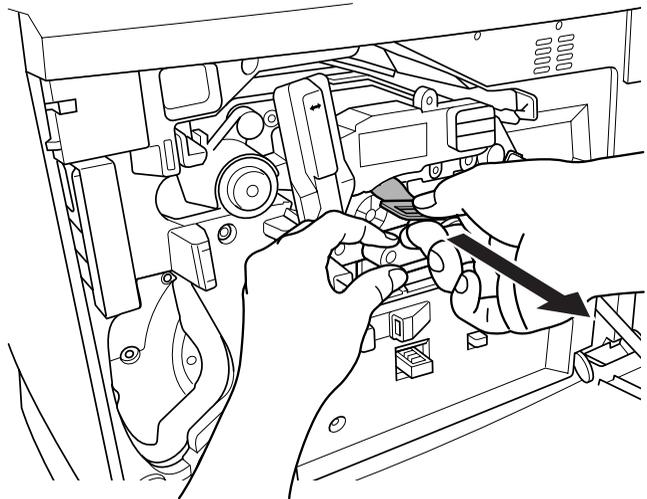


Attention

The cartridge should slide easily into the printer. Don't force it.

- 4 Press on the front handle of the OPC drum cartridge with one hand and hold the front handle of the OPC protective cover with the other hand.
- 5 Peel the protective cover off (straight toward you).

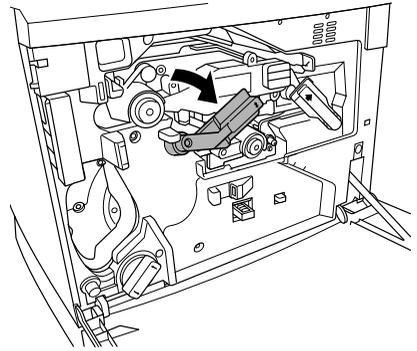
 *Dispose of it properly according to your local regulations.*



- 6 Turn the left release lever of the transfer belt clockwise to its correct position (2 o'clock).

This lowers the transfer belt.

Also make sure the transfer belt right release lever is set to its correct position (10 o'clock).



⚠ Attention

If the transfer belt left release lever is at its top position (12 o'clock), the waste toner pack cannot be installed.

Installing the New Waste Toner Pack

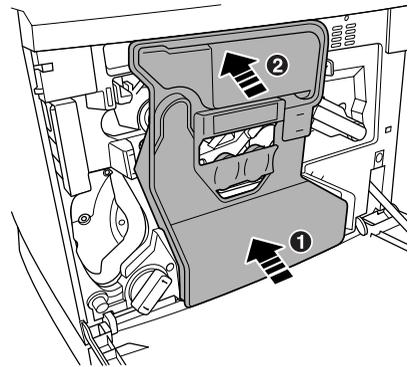


- 1 Remove the new waste toner pack from the drum kit box.
- 2 Insert the bottom of the waste toner pack ① into its installation position in the printer.
- 3 Insert the top of the waste toner pack ② into its installation position in the printer until it is firmly seated.
- 4 Close the printer's front cover.

If the waste toner pack is not correctly installed or the transfer belt right release lever is at its top position (12 o'clock), the front cover cannot be closed.

- 5 Turn on the printer.
- 6 Check the status message in the message window.

If an OPC drum or waste toner alert message is displayed, use the Service/Clear care menu to remove it.



Replacing the Fuser Unit and Transfer Roller Kit

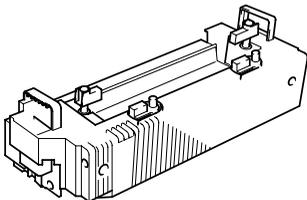
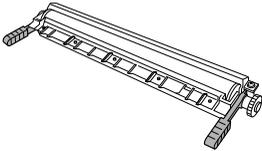
WARNING!

The fuser unit is hot. When the top cover is opened, the fuser unit temperature drops gradually (one hour wait time). Do not replace the fuser oil roller until you are sure that the fuser unit has cooled down.



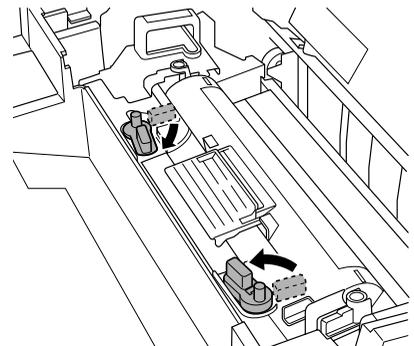
When the fuser is worn out, the message “REPLACE FUSER UNIT” appears, and the printer does not print. Replace the fuser kit.

The fuser kit includes the two items below. When replacing the fuser unit, replace the transfer roller as well.

Fuser unit	Transfer roller unit
	

Replacing the Fuser Unit

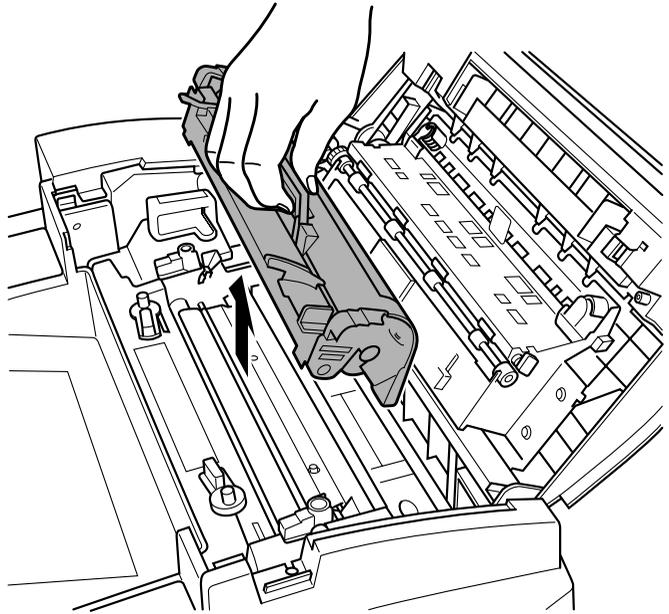
- 1 Turn off the printer.
- 2 Open the printer's top cover.
- 3 Rotate the two fuser oil roller lock levers to release the fuser oil roller.



- 4 Remove the fuser oil roller.

Hold it by the green handle only.

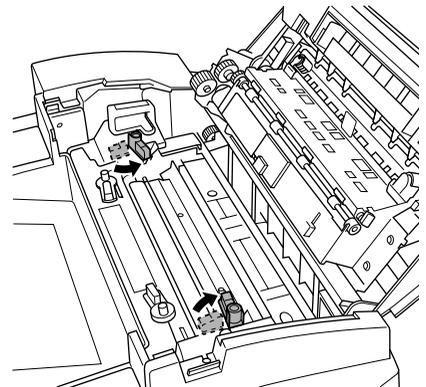
- 5 Place the fuser oil roller on a level surface.



Attention

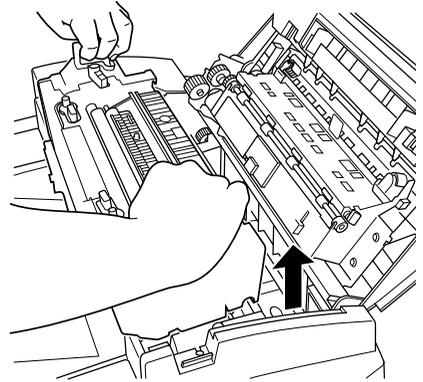
Since the fuser oil roller removed here is to be installed in the new fuser unit, handle it with care. If you set the fuser oil roller on the table, do it as shown in the illustration. Do not allow the roller surface to contact the table or get dirty. This could lower image quality.

- 6 Turn the release levers to release the fuser unit.

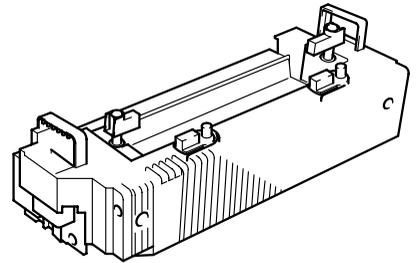


- 7 Holding the fuser unit handles, lift up the unit.

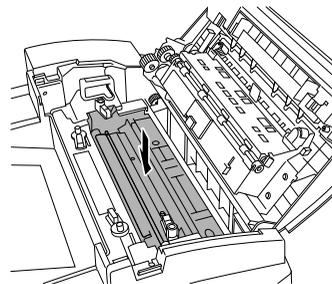
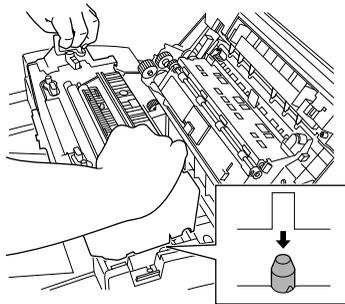
 *Dispose of it properly according to your local regulations.*



- 8 Remove the new fuser from its shipping box.

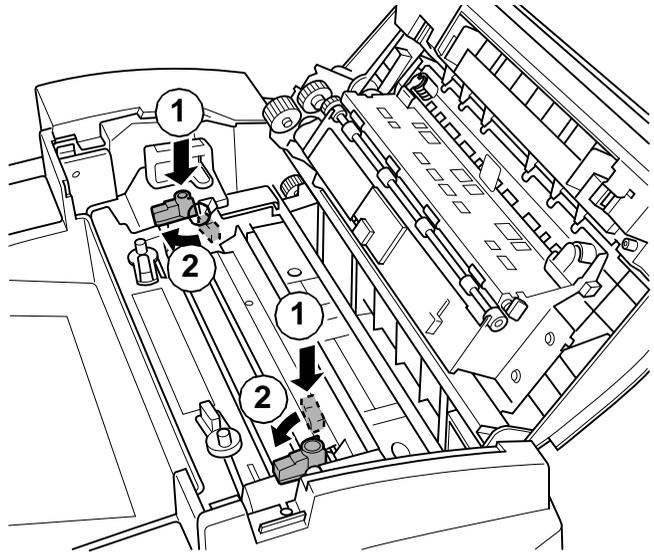


- 9 Carefully lower the new fuser unit so that the two pins in the fuser unit installation section go into the two installation holes in the fuser unit.



- 10 Press down on the fuser unit release levers ① and rotate them ②.

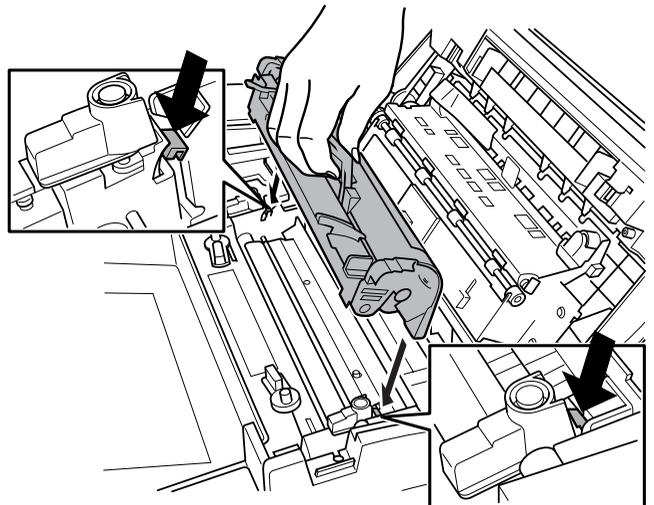
This secures the fuser unit.



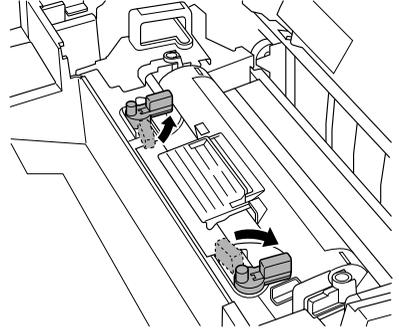
Attention

If the fuser unit release levers are not set correctly, the fuser oil roller cannot be installed. Set the fuser unit release levers to the fixed position.

- 11 Reinstall the fuser oil roller (removed in step 4).



- 12 Rotate the two oil roller levers to lock the oil roller into place.



- 13 Close the printer's top cover.
- 14 Check the status message in the message window.

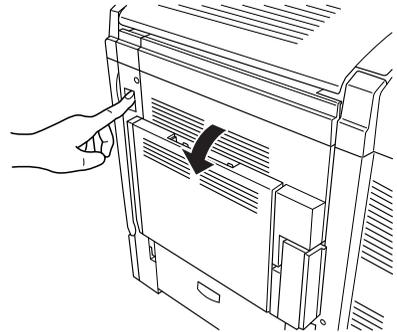
If a fuser unit alert message is displayed, use the Service/Clear care menu to remove it. Check the release button to make sure the top cover is properly closed.

Replacing the Transfer Roller Unit



If there is media in the multipurpose tray, remove it. Close the multipurpose tray.

- 1 Press the right cover release button and carefully open the right cover.

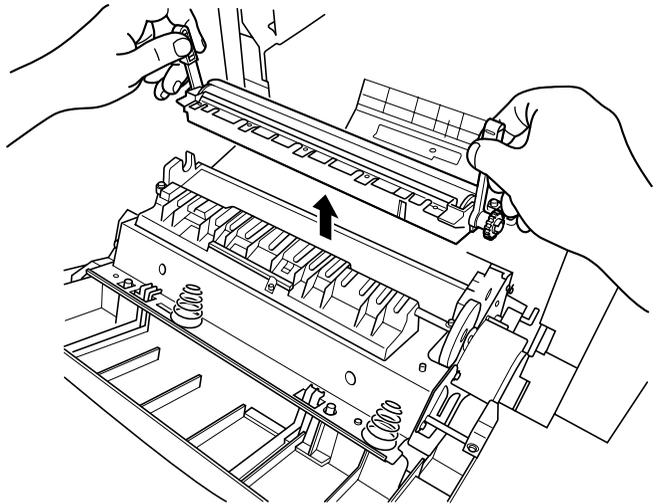


- 2 Holding the two transfer roller unit handles, remove the transfer roller unit.



Dispose of it properly according to your local regulations.

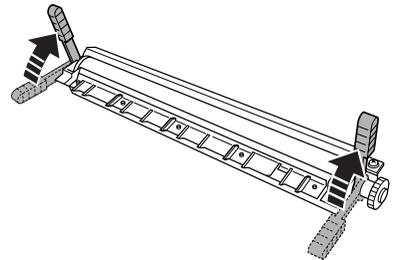
- 3 Remove the new transfer roller unit from the fuser kit box.



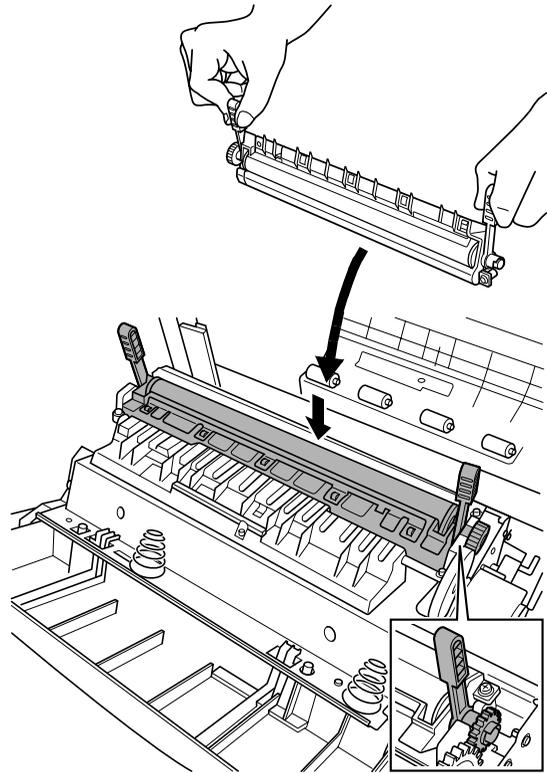
Attention

Do not touch the surface of the transfer roller unit. This could lower image quality.

- 4 Place the new transfer roller unit on a level surface.
- 5 Lift up the two transfer roller unit handles.



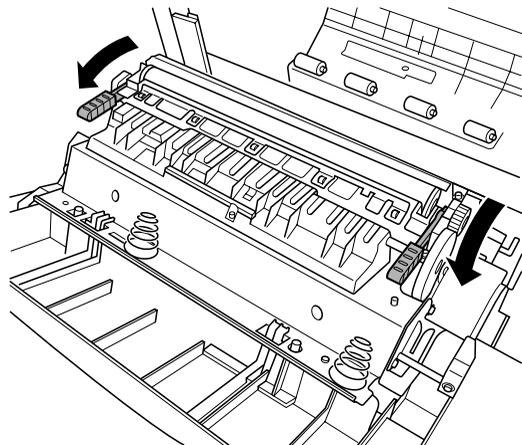
- 6 Holding the two transfer roller unit handles, carefully lower it so the transfer roller unit shaft goes into the two transfer roller unit installation guides.



- 7 Lower the two transfer roller unit handles.
8 Carefully close the right cover.

Check the release button status to make sure the cover is properly closed.

- 9 If necessary, reopen the multipurpose tray and put the media back in.



- 10 Check the status message in the message window.

If a transfer roller alert message is displayed, use the Service/Clear care menu to remove it.

Replacing the Fuser Oil Roller

The fuser oil roller provides a lubricant for the printer via an oil-impregnated roller. This oil is necessary for the proper functioning of the printer.

WARNING!

The fuser unit is hot. When the top cover is opened, the fuser unit temperature drops gradually (one hour wait time). Do not replace the fuser oil roller until you are sure that the fuser unit has cooled down.

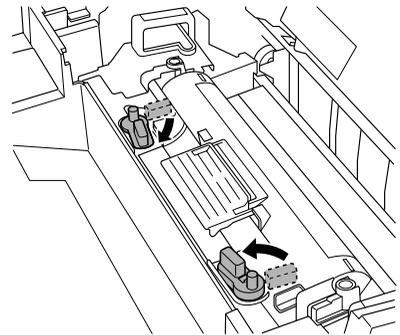


When the fuser oil roller is worn out, the message “REPLACE OIL ROLLER” appears and the printer does not print. Replace the fuser oil roller.

- 1 Turn off the printer.
- 2 Open the printer's top cover.
- 3 Rotate the two fuser oil roller lock levers to release the fuser oil roller.

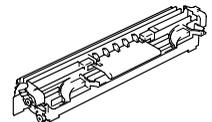
 *Dispose of it properly according to your local regulations.*

- 4 Remove the new fuser oil roller from its shipping box.



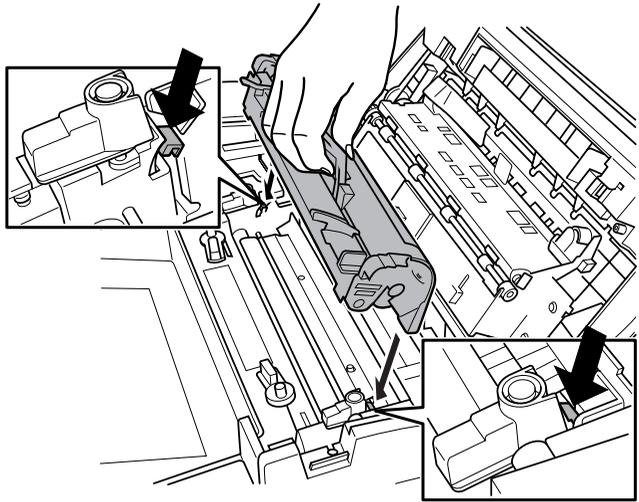
Attention

If you set the new fuser oil roller on a table, do it as shown in the illustration. Do not allow the roller surface to contact the table or get dirty. This could lower image quality.

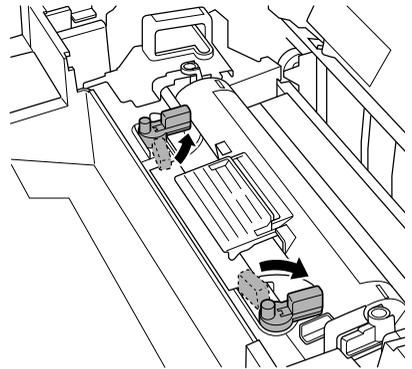


- 5 Insert the new fuser oil roller installation guides (front, rear) into the fuser unit installation rail.

- 6 Carefully lower the roller.



- 7 Rotate the two oil roller release levers to lock the oil roller into place.



⚠ Attention

If the two fuser oil roller release levers are not correctly set, the top cover cannot be closed. Set the release levers to the roller fixed position.

- 8 Carefully close the top cover.

Check the release button to make sure the top cover is properly closed.

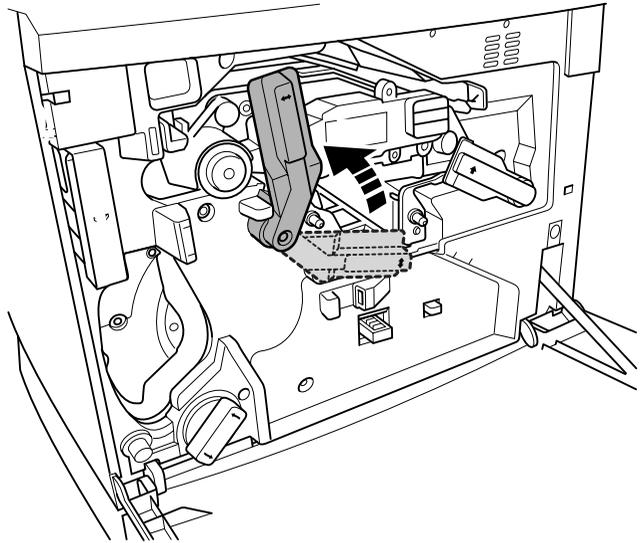
- 9 Turn on the printer.
- 10 Check the status message in the message window.

If a fuser oil roller alert message is displayed, use the Service/Clear care menu to remove it.

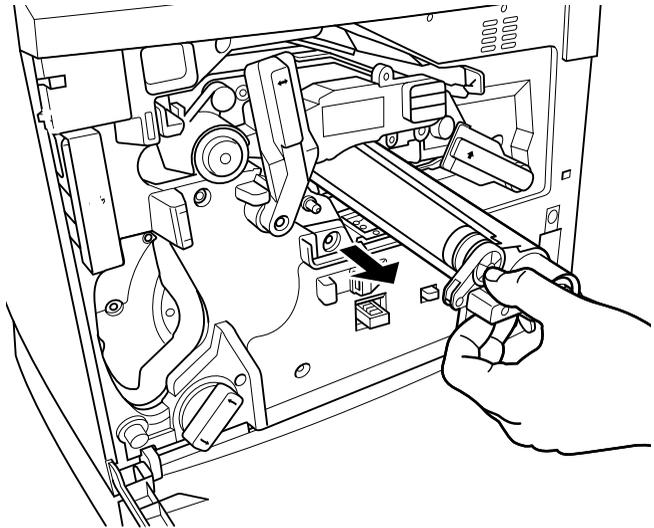
Replacing the Transfer Belt

When the transfer belt is at its end of life, the message “REPLACE TRANSFER BELT” appears, and the printer does not print. Replace the transfer belt. After the new transfer belt is installed, printing automatically resumes.

- 1 Open the printer’s front cover.
- 2 Remove the waste toner pack.
- 3 Rotate the left transfer belt lock lever as shown in the illustration.



- 4 Remove the OPC drum cartridge and set it aside.

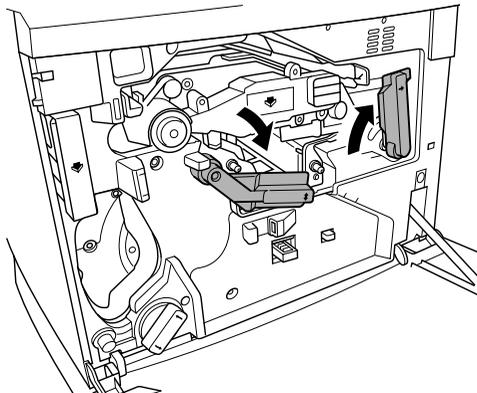


Attention

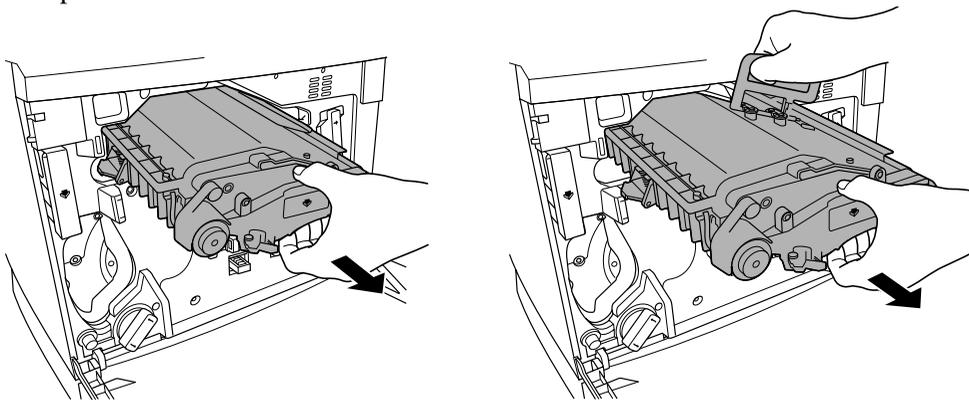
The OPC drum is extremely sensitive to bright light and direct sunlight. Always put it in its protective bag until you're ready to reinstall it. Any exposure to light should be avoided, or permanent damage could result.

Also, handle the cartridge carefully by its sides so you don't touch the surface (the green part) of the drum. The drum is also extremely sensitive to hand oils and scratches, both of which reduce print quality.

- 5 Rotate the left lever to its 4 o'clock position.

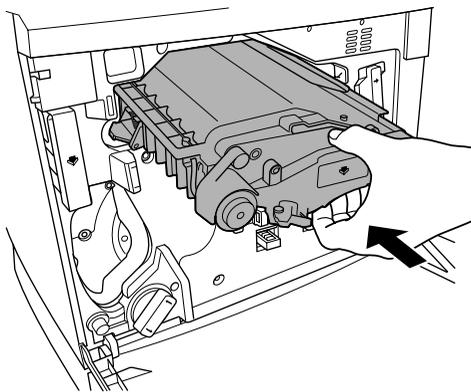


- 6 Grasp the handles of the transfer belt and remove it.



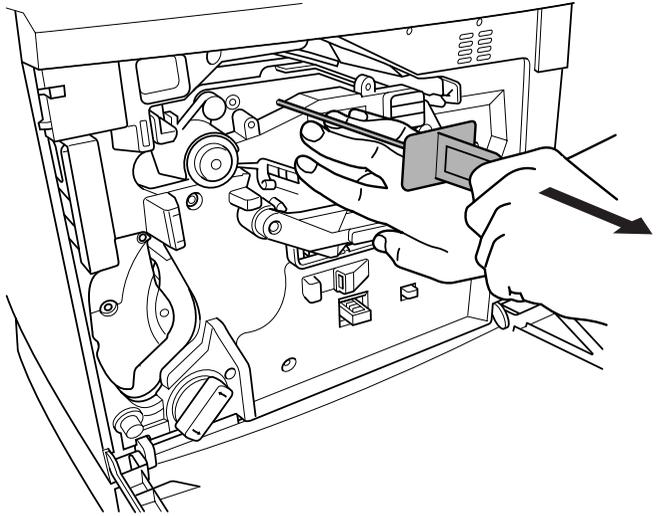
 *Dispose of it properly according to your local regulations.*

- 7 Remove the new transfer belt from its packaging and insert it into the printer.

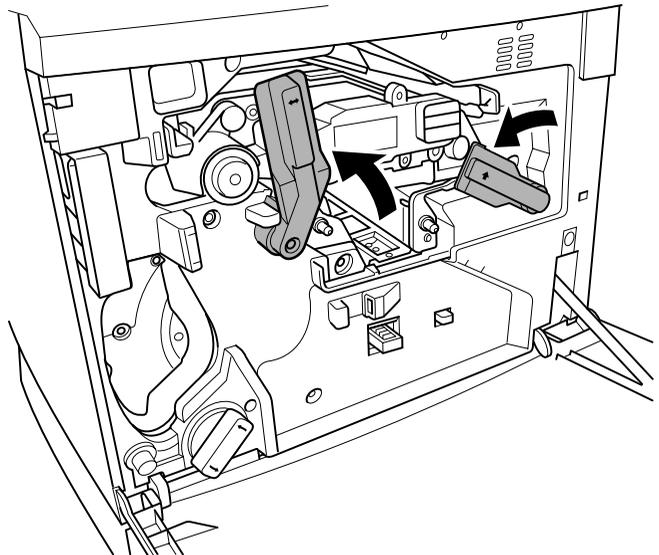


- 8 Press on the transfer belt front handle with one hand, take the handle of the transfer belt fixture with your other hand, and pull the fixture straight toward you.

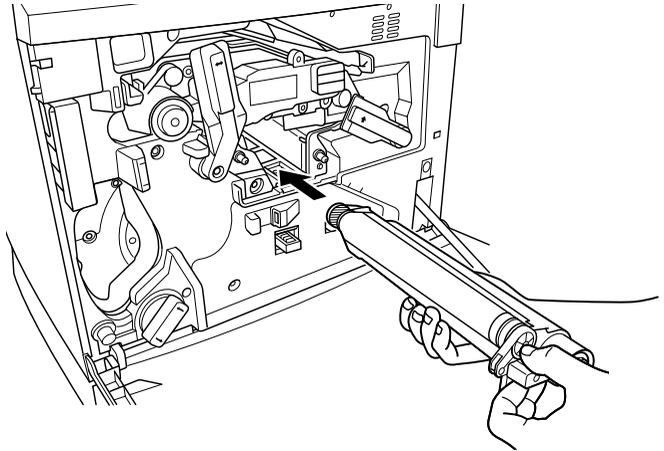
 *Dispose of it properly according to your local regulations.*



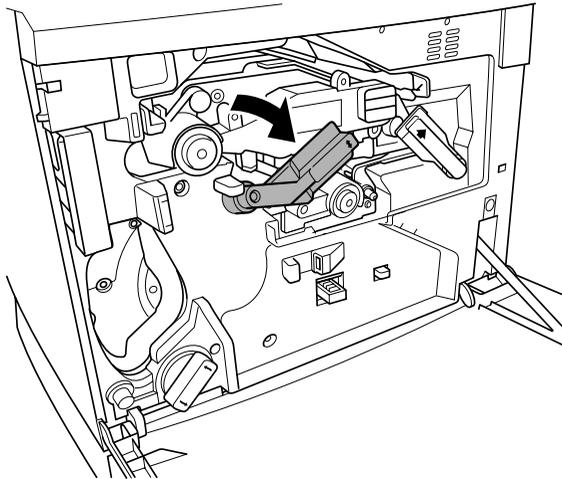
- 9 Rotate the transfer belt lock levers.



- 10** Reinstall the OPC drum cartridge.

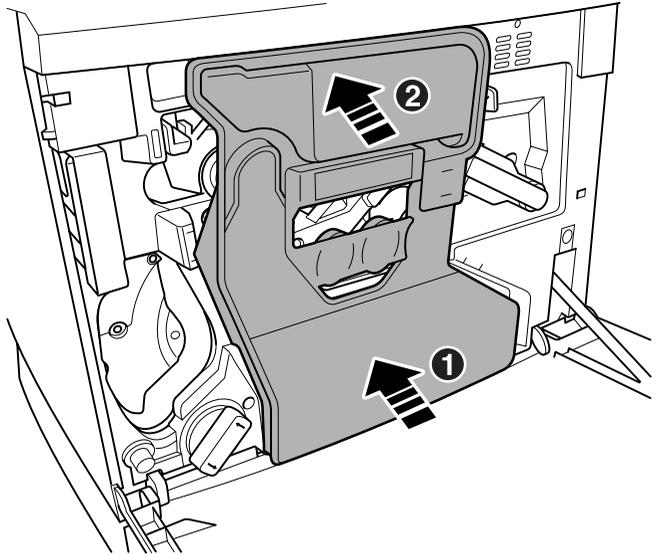


- 11** Close the transfer belt lock lever.
12 Make sure the laser lens cover is firmly seated.



- 13 Reinstall the waste toner pack.
- 14 Close the front cover and turn on the printer.
- 15 Check the status message in the message window.

If a transfer belt alert message is displayed, use the Service/Clear care menu to remove it.



Using Media

2

Introduction

This chapter provides information on handling, selecting, and storing media. Refer to the *Maintenance Guide* for media specifications.

Media Handling

Before purchasing a large quantity or special media, do a trial printing with the same media and check print quality. Check with our web site www.minolta-qms.com for a list of current approved media.

Attention

Do not use the media types listed below. These could cause poor print quality, media jams, or damage to the printer.

Do not use media that is

Not approved
Meant for ink jet printers
Folded, embossed, warped, or wrinkled
Perforated or prepunched
Too slick, too coarse
Coated with a processed surface (such as carbon paper, heat-sensitive paper, heat-pressure paper)
Composed of foil or gilt
Irregularly shaped (not rectangular); not uniform in size
Bound with glue, tape, or paper clips
Attached to ribbons, hooks, buttons, etc.
Made of material that will melt, vaporize, offset discolor, or emit dangerous fumes

Do not use labels that have

Label(s) already peeled off
Labels that peel off easily
Glue or sealer that might come off

Do not use envelopes that have

Metal clasps, fasteners, transparent windows, peel-off strips for sealing
Sticky flaps

Media Types

Plain Paper

Formatting	Format data within your application.	
Input	Upper and Optional Trays	500 sheets of 20 lb bond (75 g/m ²) paper (letter/A4/legal) each; capacity for other weights varies accordingly.
	Multipurpose Tray	150 sheets of 20 lb bond (75 g/m ²) paper; capacity for other weights varies accordingly.
Orientation	Upper and Optional Trays	Simplex—Face up; Duplex—Face down
	Multipurpose Tray	Simplex—Face down; Duplex—Face up
Type	Any standard or recycled office paper suitable for plain-paper laser printers, such as <ul style="list-style-type: none">■ Hammermill Laser Print■ Georgia-Pacific Microprint Laser 1000■ Neusiedler Color Copy 90■ Xerox 4024	
Weight	16–24 lb bond (60–90 g/m ²)	
Duplexing	Up to 28 lb bond (105 g/m ²)	

Letterhead and Memo Media

Formatting	Format letterhead or memo data within your application. Try printing your data on a plain sheet of paper first to check placement.	
Input	Upper and Optional Trays	Up to 500 sheets
	Multipurpose Tray	Up to 150 sheets
Orientation	Upper and Optional Trays	Face up—top of page toward the right
	Multipurpose Tray	Face down—top of page toward the printer side

Type	Any standard or recycled office paper suitable for plain-paper laser printers, such as	
	<ul style="list-style-type: none"> ■ Hammermill Laser Print ■ Georgia-Pacific Microprint Laser 1000 ■ Neusiedler Color Copy 90 ■ Xerox 4024 	
Weight	16–24 lb bond (60–90 g/m ²)	
Duplexing	Upper and Optional Trays	Face down—top of page toward the right
	Multipurpose Tray	Face up—top of page toward the printer side
Notes	Check your application documentation for other information about printing on letterhead and memo media.	

Thick Stock

Formatting	Format the information to be printed on the thick stock within your application. Try printing your data on a plain sheet of paper first to check placement.	
Input	Multipurpose Tray Only	Up to 50 sheets, depending on the thickness of the media
Orientation	Face down	
Type	For information about thick stock media recommended for your printer, go to www.minolta-qms.com/support , then click on Answer Base, or contact Technical Support. See the <i>Service & Support Guide</i> for a complete listing of support telephone numbers.	
Weight	Simplex: 24–43 lb bond (90–163 g/m ²)	
	Autoduplex: Up to 28 lb bond (105 g/m ²)	
	Manual Duplex: 24 lb (90 g/m ²) to 43 lb (163 g/m ²) bond	
Duplexing	Autoduplexing thick stock over 28 lbs (105 g/m ²) is not supported. Thicker stock may be manually duplexed.	
Notes	You should test the number of sheets of thick stock the multipurpose tray can hold to ensure that its performance is acceptable.	
	43 lb (163 g/m ²) bond is also referred to as 90 lb index stock.	

Envelopes

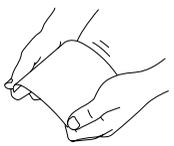
Formatting	Your printer receives the instructions to print on envelopes from your application. <ul style="list-style-type: none"> ■ Print on the front side only. Some parts of the envelope consist of three layers of paper—the front, back, and flap. Anything printed in these layered regions may be lost or faded. ■ See your application documentation for specific information on printing envelopes. 	
Input	Multipurpose Tray Only	Up to 50, depending on the thickness of the envelopes
Orientation	Face down	
Type	Use common office envelopes approved for laser printing with diagonal joints, sharp folds and edges, and ordinary gummed flaps, such as <ul style="list-style-type: none"> ■ Commercial #10: Columbian Recycled COR02 ■ International DL: Auto Fil #01914 	
Duplexing	Not supported	
Notes	<ul style="list-style-type: none"> ■ You can print <i>only</i> on the address side of the envelope. ■ Envelopes should be dry. ■ Do not preload or preseat envelopes. 	

Labels

Formatting	Format label data within your application. Try printing your data on a plain sheet of paper first to check placement.	
Input	Multipurpose Tray Only	Up to 50 sheets, depending on the thickness of the labels
Orientation	Face down	
Type	Use only labels recommended for laser printers, such as <ul style="list-style-type: none"> ■ Avery 5260 	
Weight	16–90 lb (60–163 g/m ²)	
Duplexing	Not supported	

Notes	<ul style="list-style-type: none"> ■ Avoid using labels with exposed adhesive; it may stick to the transfer belt or the fuser roller, causing labels to peel off and media jams to occur. ■ Adhesive label stock is supported only in letter or A4 sheets. ■ A label consists of a face sheet (the printing surface), adhesive, and a carrier sheet <ul style="list-style-type: none"> — The face sheet must follow the plain paper specification. — The face sheet surface must cover the entire carrier sheet, and no adhesive should come through on the surface. ■ You can print continuously with label paper. However, this could affect the media feed, depending on the media quality and printing environment. If problems occur, stop the continuous print and print one sheet at a time. ■ Check your application documentation for other information on printing labels.
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Postcards

Formatting	Format postcard data within your application. Try printing your data on a plain sheet of paper first to check placement.	
Input	Multipurpose Tray Only	Up to 50 sheets, depending on the thickness of the postcards
Orientation	Face down	
Type	Use only postcards recommended for laser printers	
Weight	16–90 lb (60–163 g/m ²)	
Duplexing	Not supported	
Notes	<p>If the postcard is warped, press on the warped area before putting in multipurpose tray.</p> 	

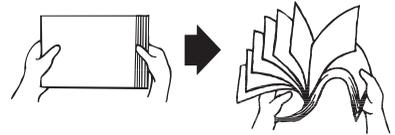
Transparencies

Formatting	Format the information to be printed on the transparencies within your application. Try printing your data on a plain sheet of paper first to check placement.
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Input	Location	Upper and Optional Trays Multipurpose tray
	Capacity	Up to 50 sheets, depending on the thickness of the transparencies <i>If you have problems feeding 50 sheets, try loading only 5–10 sheets at a time. Loading a large number of transparencies at a time may cause static buildup, thus causing feeding problems.</i>
Orientation	Upper and Optional Trays	Face up
	Multipurpose Tray	Face down
Type	Use any full-color transparencies (also known as OHP film) that meet normal photocopier standards. We recommend <ul style="list-style-type: none"> ■ Q-Media Transparency Media for the magicolor 2200 for color printing ■ 3M PP2500 for monochrome printing 	
Duplexing	Not supported	
Notes	<ul style="list-style-type: none"> ■ If you touch the face of transparencies with your bare hands, print quality may be affected. ■ Do not handle transparency media too much. Do not fan transparency media before loading it. Resulting static electricity may cause printing errors. ■ Keep the media path clean. Transparencies are especially sensitive to a dirty media path. If there are shadows on either the top or the bottom of the sheets, see <i>“Printer Care” on page 80</i>. ■ You can print continuously with transparencies. However, this could affect the media feed, depending on the media quality and printing environment. If problems occur, stop the continuous print and print one sheet at a time. ■ Check your application documentation for other information about printing on transparencies. 	

Loading Media

Take off the top and bottom sheets of a ream of paper. Holding a stack of approximately 250 sheets at a time, fan the stack to prevent static buildup for the paper before inserting it in a tray.



Attention

Always load the media short edge first.



Attention

Do not mix media of different sizes, types, or weights, as this will cause printer jamming.

- When refilling media, first remove any media remaining in the tray. Stack it with the new media, even the edges, then reload it. Although the magicolor 2200 DeskLaser was designed for printing on a wide range of media types, it is not intended to print exclusively on a single media type except plain paper. Continuous printing on media other than plain paper (such as envelopes, labels, thick stock, or transparencies) may adversely affect print quality or reduce engine life.
- For media other than standard plain paper or transparencies, both the driver (Paper tab, Paper Type option) and the MP Size key on the control panel need to be selected.

It is important to use the MP Size key to set the multipurpose tray to the appropriate media size in order to obtain optimum printing results.

Autoduplexing

Duplex (2-sided) printing can be done automatically with the optional duplex unit installed.



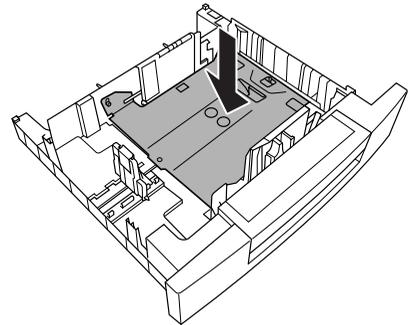
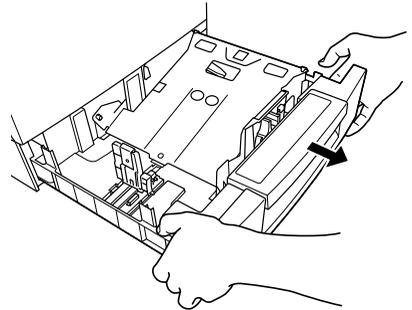
Only up to 28 lb bond (105 g/m²) plain paper can be duplexed.

If you are printing duplex from the upper or optional tray, load the media printing-side down with the top of the media (or letterhead or memo information) toward the right side of the tray. If you are printing duplex from the multipurpose tray, load the media printing-side up with the top of the media toward the printer. Set the driver, for example:

- 1 In the printer driver, make sure you have selected Duplexer and clicked on the Add button.
- 2 In the printer driver, select Simplex (one-sided pages), or Long Edge (flipped horizontally as in a loose-leaf notebook), or Short Edge (flipped vertically as on a clipboard) as the Duplex option.
- 3 Click OK.

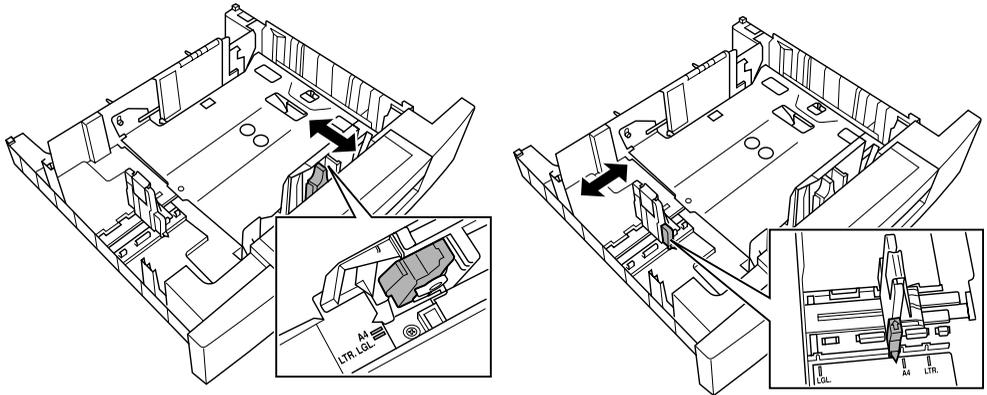
Upper and Optional Media Trays

- 1 Slide the media tray open.
- 2 Push the media pressure plate down to lock it in position.



3 Adjust the media guides to fit the size paper you're loading.

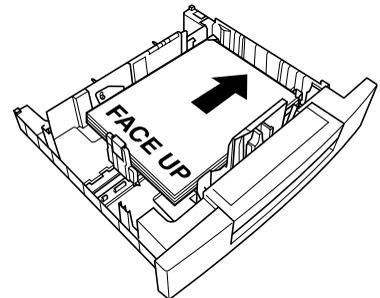
Squeeze the retainers, move the guides to the appropriate location (media sizes are listed on the tray), and release the retainers. The media should fit easily between the guides.



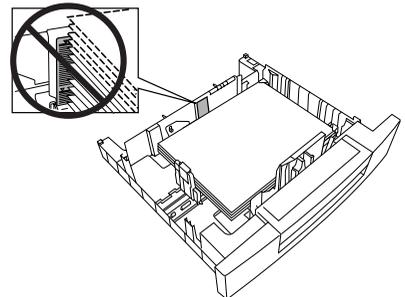
4 Load the paper face-up, short edge toward the right of the tray.

Often, an arrow on the media package label indicates the printing-side of the media.

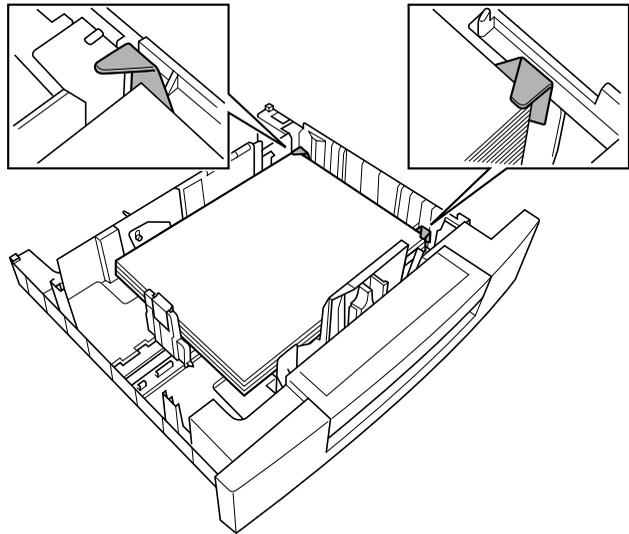
Do not overfill the tray.



A fill limit mark is provided on the inside of the tray. The media tray holds 500 sheets of 20 lb bond (75 g/m²) paper.



Make sure that the paper fits easily between the guides and the paper corners are under the left and right media-separating tabs and are not bent.

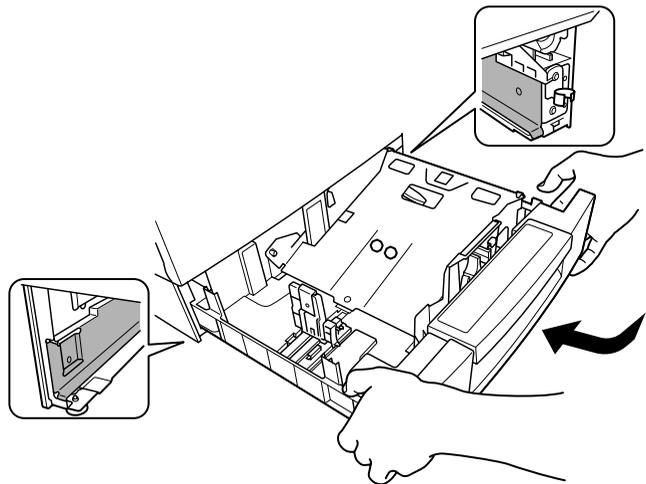


Attention

Always readjust the media guides after inserting the media. Improperly adjusted guides may cause poor print quality, media jams, or printer damage.

- 5** Slide the tray back into the printer.

 *If you have removed the tray from the printer, slightly tilt up the tray to insert it into the installation rails to slide it back in.*

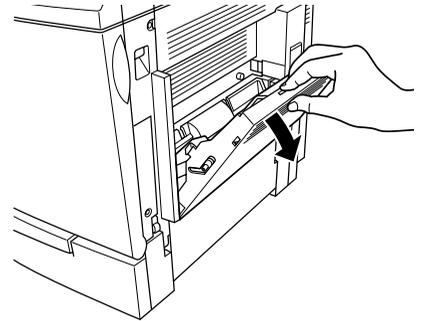


Multipurpose Tray

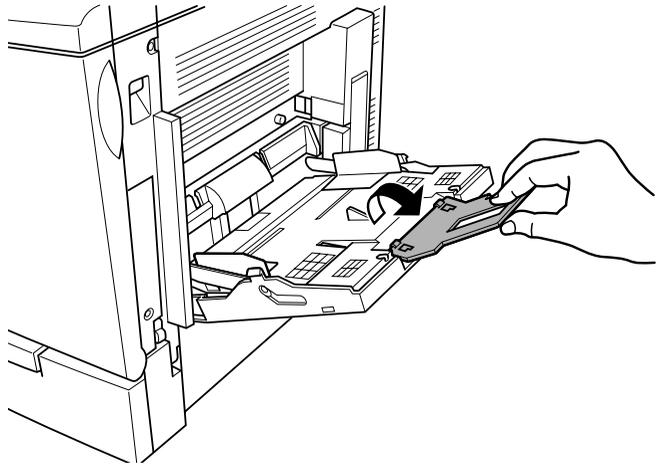
Page sizes other than letter, A4, and legal can be printed only from the multipurpose tray (also known as tray 1). Use the printer driver to set the page size.

Other special types of media (such as thick stock, transparencies, and envelopes) are also fed from the multipurpose tray. See “Media Specifications” in the *Maintenance Guide* for more information about media.

- 1 Open the multipurpose tray on the right side of the printer.



- 2 Open the media support.



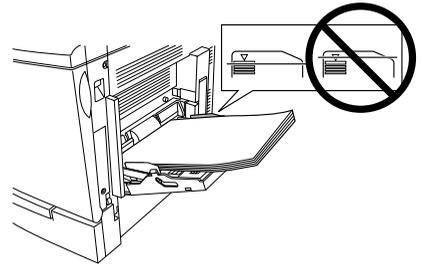
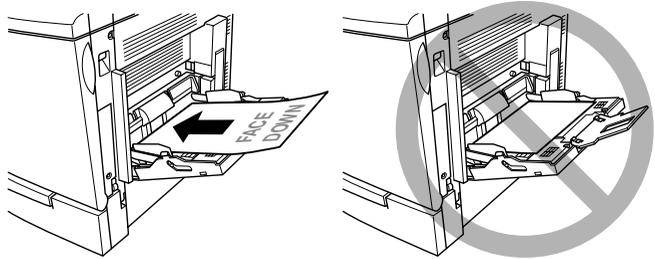
Attention

Load only one type/size of media per tray at a time.

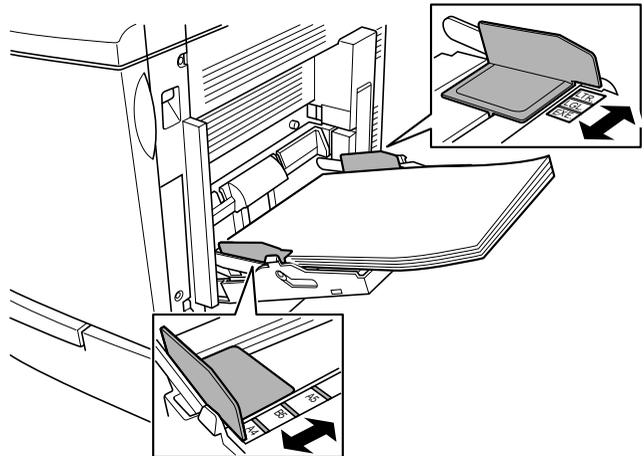
- 3 Load the media face down, short edge toward the printer.

Often, an arrow on the paper package label indicates the face-up (printing) side of the paper.

A fill limit mark is provided on the inside of the media guides on the multipurpose tray. The multipurpose tray holds 150 sheets of 20 lb bond (75 g/m²) paper.



- 4 Adjust the media guides to fit the size media you're loading.



⚠ Attention

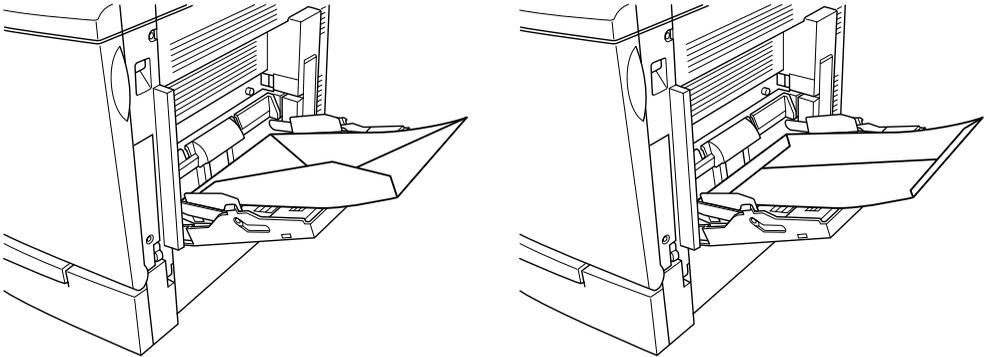
Always adjust the media guides after inserting the media. A guide that is not properly adjusted can cause poor print quality, media jams, or printer damage.

- 5 Specify the media size in the multipurpose tray by using the printer driver.

Printing Envelopes from the Multipurpose Tray

- 1 Flex the envelope stack (including the edges) to remove any stiffness.
- 2 Place the envelopes on a flat surface, and flatten them by pressing down the corners.
- 3 Correct any bent corners, and then tap the envelopes on a flat surface to align them.
- 4 Place the envelope stack into the multipurpose tray with the flap-side up.

Check your application documentation to determine if the flap should be placed on the left or on the right. Print a single envelope to check the orientation before printing multiple copies.



- 5 Adjust the media guides to the width of the envelopes.

Make sure the guides are snug enough to keep the envelopes straight, but not so tight that they buckle the envelopes.

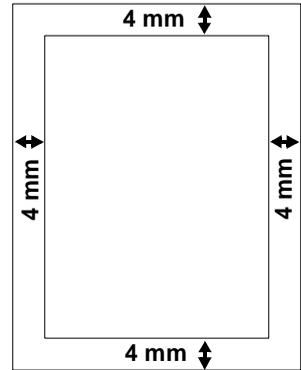
- 6 Open the flap of each envelope immediately (before it cools) after the envelope is delivered to the output tray.



Because the envelopes pass through heated rollers, the gummed area on the flaps may seal. Using envelopes with emulsion-based glue avoids this problem.

Printing Area

The printing area on all media sizes is up to about 0.157 inch (4 mm) from the edges of the media.



Media Storage

When storing media, avoid:

- Direct sunlight
- Excess heat and humidity
- Dust

If media has been removed from its wrapper, place it in its original packaging and store in a cool, dark place on a level surface.



*Printer Driver
Configuration*

3

Introduction

The magicolor 2200 DeskLaser printer driver is for use with Windows Me/2000/NT4/98/95 operating systems. This chapter describes how to configure the printer driver and the MINOLTA-QMS Crown Print Monitor. We've also included information about using the MINOLTA-QMS Printer Status Monitor.

Configuring the Printer Driver

This section explains how to access and configure the magicolor 2200 DeskLaser printer driver.

The printer configuration options are located on tabs that appear in the magicolor 2200 DeskLaser printer driver window. To access options for viewing or modification, open the printer driver window and click on the tab appropriate for your needs. Online help is also available while you're configuring the printer driver. Just choose any Help button.

Windows Me/98/95 Configuration Methods



If you're using Windows 2000/NT 4, refer to "Windows 2000/NT 4 Configuration Methods" on page 52 for complete information.

There are two methods of accessing the configuration options of the printer driver:

... via the printer device properties	... via your application's printer setup
Gives you access to all printer settings	Gives you access to Paper, Page Layout, Image, Device Option, and About tabs.
Lets you assign the default printer settings for all print jobs	Lets you assigns the printer settings for only the current print job
Retains your settings until changed again via properties	Temporarily overrides the existing default settings
How To: <ol style="list-style-type: none"> 1 From the Windows Start menu choose Settings. 2 Choose Printers. 3 Select the magicolor 2200 DeskLaser printer driver. 4 From the File menu, choose Properties. 5 Make your selections, and then choose OK to save your changes. 6 Close the Printers window. 	How To: <ol style="list-style-type: none"> 1 From the application's File menu choose Print (or, in some cases, Print Setup or Page Setup). 2 In the Print, Print Setup, or Page Setup dialog box, select the magicolor 2200 DeskLaser printer driver. 3 Choose the Properties button. 4 Make your selections, and then choose OK to save your changes. 5 Choose OK from the Print Setup window.



You should configure your printer driver settings via the printer driver properties method for your typical print jobs and use your application's printer setup method for print jobs that require special, less frequently needed printer settings.

The tabs and a summary of the options found on each are as follows:

- **General**—Allows you attach comments, use a separator page, and print a test page. See your Windows documentation.
- **Details**—Allows you to set interface connection details. See your Windows documentation.
- **Sharing**—Allows you to set up the printer so others on the network can use it. See your Windows documentation.

- **Color Management (Windows 98 only)**—Allows you to select the color profile associated with your printer or allow the operating system to make the selection for you.
- **32-bit SuperDriver Setup**—This tab leads to the following set of tabs that are also available from your application’s printer setup properties. See “32-bit SuperDriver Setup” on page 55.
 - **Paper**—Allows you to provide information about the document type and location of the media you want to print on. See “Configuring Paper Options” on page 56.
 - **Page Layout**—Allows you to specify N-up (Number-up) settings, scaling and watermarks used for your print jobs. See “Configuring Page Layout Options” on page 63.
 - **Image**—Allows you to provide settings for color format, image brightness and contrast, color balance, and color matching. See “Configuring Image Options” on page 70.
 - **Device Options**—Allows you to specify which printer options are installed on your printer. See “Configuring Device Options” on page 74.
 - **About**—Displays the magicolor 2200 DeskLaser printer driver release version and date. See “Information on the About Tab” on page 75.

Windows 2000/NT 4.0 Configuration Methods



If you’re using Windows Me/98/95, refer to “Windows Me/98/95 Configuration Methods” on page 50 for complete information.

There are three methods you can use to configure the printer driver. However, these three methods don't all have the same options or control.

... via the printer driver properties	... via your application's printer setup
Gives you access to the General, Ports, Scheduling (Windows NT 4.0) or Advanced (Windows 2000), Sharing, Security, and About tabs	Gives you access to the Paper, Page Layout, Image, Device Options, and About tabs
Lets you assign the printer settings for all print jobs	Lets you assigns the printer settings only for the current print job
Retains your settings until changed again via properties	Temporarily overrides the existing default document settings
How To:	How To:
<ol style="list-style-type: none"> 1 From the Windows Start menu choose Settings. 2 Choose Printers. 3 Select the magicolor 2200 DeskLaser printer driver. 4 From the File menu, choose Properties. 5 Make your selections, and then choose OK to save your changes. 6 Close the Printers window. 	<ol style="list-style-type: none"> 1 From the application's File menu choose Print (or, in some cases, Print Setup or Page Setup). 2 In the Print, Print Setup, or Page Setup dialog box, select the magicolor 2200 DeskLaser printer driver. 3 Choose the Properties button. 4 Make your selections, and then choose OK to save your changes. 5 Choose OK from the Print Setup window.

... via document defaults (Windows NT 4.0) or via printing preferences (Windows 2000)
Gives you access to the Paper, Page Layout, Image, Device Options, and About tabs
Lets you assign the default printer settings for all print jobs
Retains your settings until changed again via properties
How To:
<ol style="list-style-type: none"> 1 From the Windows Start menu choose Settings. 2 Choose Printers. 3 Select the magicolor 2200 DeskLaser printer driver. 4 From the File menu, choose Default Document Properties (Windows NT 4.0) or choose Printing Preferences (Windows 2000). 5 Make your selections, and then choose OK to save your changes. 6 Close the Printers window.



You should configure your printer driver settings via the printer device properties and document defaults properties for your typical print jobs and use your application's printer setup method for print jobs that require special, less frequently needed printer settings.



Because Windows NT remembers the configuration changes you make to the driver, reinstalling the driver does not restore the factory default configuration.

Five tabs appear in the magicolor 2200 DeskLaser Properties window through the Start menu: General, Ports, Color Management, Scheduling, Sharing, and Security. The tabs and a summary of the options found on each are as follows:

- **General**—Allows you to name the printer, specify a location, specify a driver to be used, install a new or updated printer driver, use a separator page between documents, specify a specialized print processor/data type, and print a test page. See your Windows documentation.
- **Ports**—Lists the available ports (under Ports), the associated port monitor (under Description), and a comma-delimited list of printers that use the port (under Printer). Allows you to add, delete, or configure ports. It also allows the printer to get setting and status information from other printing devices, and enables printer pooling (printing to two or more identical printing devices through one logical printer). See your Windows documentation.
- **Color Management**—Allows you to select the color profile associated with your printer or allow the operating system to make the selection for you. See your Windows documentation.
- **Scheduling (Windows NT 4.0) or Advanced (Windows 2000)**—Allows you to configure the printer for availability, set spooling information, and define default document printing priority. See your Windows documentation.
- **Sharing**—Allows you to share the printer and install alternate drivers. See your Windows documentation.
- **Security**—Allows you to modify the permissions to limit access on the printer, view or set auditing information, or view or take ownership of the selected item(s). See your Windows documentation.

The Paper, Page Layout, Image, Device Options, and About tabs—accessible from your application’s printer setup and from document default properties are explained in the “32-bit SuperDriver Setup,” section that follows.

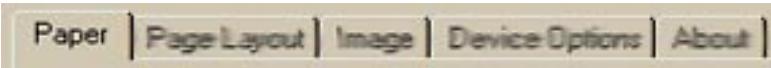
32-bit SuperDriver Setup

Printer Driver Controls for Windows Me/2000/NT4/98/95



The printer driver application does not fully display when monitor resolution is set to 640x480 pixels. You must increase your monitor resolution to 600x800 pixels or greater for full viewing of the application window. See your operating system online help for information about changing your monitor resolution setting.

The following pages in this section describe the function and available settings for the controls located on the Paper, Page Layout, Image, Device Options and About tabs in the magicolor 2200 DeskLaser printer driver. These tabs are common for all of the supported Windows operating systems.

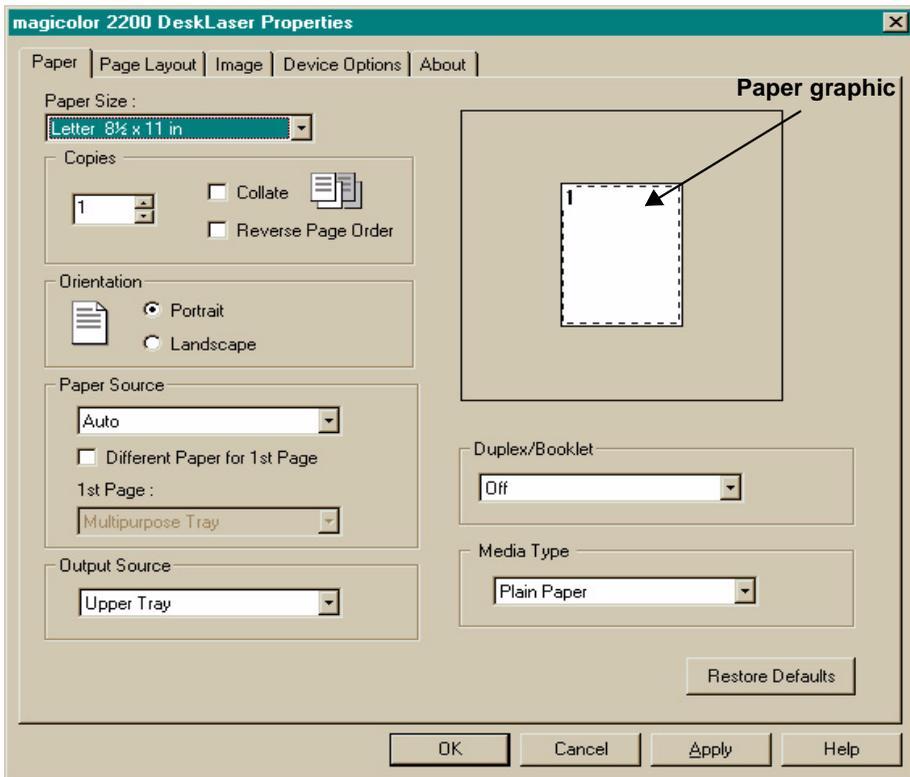


Configuring Paper Options

The Paper tab allows you to provide information about the type, size, and location of the media you want to print on. If a duplex unit is installed, there is also a setting for duplex print options.



Optional printer components such as a duplex unit, 5-bin mailbox, and lower feeder unit must be identified in the Device Options tab before you can identify settings for these features (settings for optional components are grayed out or do not appear).



Paper Size

Purpose	Sets the media size.		
Choices	Size	Inches	Millimeters
	A4	8.3 x 11.7	210.0 x 297.0
	A5	5.8 x 8.3	148.0 x 210.0
	B5 (JIS)	7.2 x 10.1	182.0 x 257.0
	B5 (ISO)	6.9 x 9.8	176.0 x 250.0
	Executive	7.3 x 10.5	185.4 x 266.7
	Folio	8.5 x 13.0	215.9 x 330.0
	Foolscap	8.0 x 13.0	203.0 x 330.0
	Legal	8.5 x 14.0	215.9 x 355.6
	Letter	8.5 x 11.0	215.9 x 279.4
	SP Folio	8.5 x 12.3	215.9 x 315.0
	Statement	5.5 x 8.5	140.0 x 215.9
	UK Quarto	8.0 x 10.0	203.0 x 254.0
	C5	6.4 x 9.0	162.0 x 229.0
	C6	4.5 x 6.4	114.0 x 162.0
	Chokei #3	4.7 x 9.3	120.0 x 235.0
	Chokei #4	3.5 x 8.1	90.0 x 205.0
	Com 10 Envelope	4.1 x 9.5	105.0 x 241.3
	Envelope DL	4.3 x 8.7	110.0 x 220.0
	GT Postcard	4.0 x 6.5	101.5 x 165.0
	Japanese Postcard	3.9 x 5.8	100.0 x 148.0
	Monarch	3.9 x 7.5	98.4 x 191.0
Default	Letter 8.5 x 11.0 in (215.9 x 279.4 mm)		

Copies

Purpose	Sets the number of copies to be printed.
Choices	1–999
Default	1
Additional Choices	See “Collate” in this section.

Collate

Purpose	Collates multiple copies of documents when selected.
Choices	Enabled (selected) —All pages of the document are printed before the next copy is printed. Disabled —All copies of each page are printed before the next page is printed.
Default	Disabled
Notes	This option is available only if multiple copies is selected. See “Copies” in this section. If you are making multiple duplex copies of a job that has an uneven number of pages, deselect collation in the application and then select Collate in the driver on the Paper tab.

Reverse Page Order

Purpose	Prints pages in reverse order when selected.
Choices	Enabled (selected) —Prints from the last page of document to the first page. Disabled —Prints from the first page of the document to the last page.
Default	Disabled

Orientation

Purpose	Sets the orientation (printing direction) of the print media.
Choices	<p>Portrait—Prints along the short edge of the page (vertical page orientation).</p>  <p>Landscape—Prints along the long edge of the page (horizontal page orientation).</p> 
Default	Portrait

Paper Source

Purpose	Sets the input source (cassette) from which print media is pulled into the printer
Choices	<p>Auto—The printer uses the first cassette it can find that contains media large enough to satisfy the print job requirements.</p> <p>Multipurpose Tray—The multipurpose tray.</p> <p>Upper Tray—The cassette in the standard (upper) position.</p> <p>Optional Tray—The cassette in the lower position (available only on printers with an optional lower feeder unit installed and the optional tray selected on the Device Options tab).</p>
Default	Auto
Notes	<p>When the printer is first turned on, the upper tray is selected. After that, the printer uses the last cassette selected.</p> <p>See “Different Paper for 1st Page” in this section.</p>

Different Paper for 1st Page

Purpose	Allows you to select the paper source that will be used for the first page of the document.
Choices	Enabled (selected) —The first page of the document will use the paper source identified in the 1st Page list. Disabled —All pages of the document use the same paper source.
Default	Disabled
Additional Choices	When enabled is selected, the 1st Page list is activated. See “1st Page” in this section.

1st Page

Purpose	This list allows you to identify the paper source for the first page of the document.
Choices	Upper Tray Multipurpose Tray Optional Tray —Available only on printers with an optional lower feeder unit installed and the optional tray selected on the Device Options tab.
Default	Upper Tray
Notes	This list is disabled (grayed-out) if Different Paper for 1st Page is disabled.

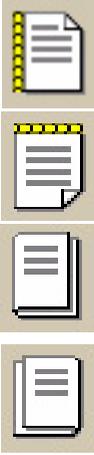
Output Source

Purpose	Sets the output bin where printed media is to be delivered.
Choices	Upper Tray —The printer will send printed media to the upper output bin. Mailbin 1-5 —The mailbin output bin (mailbin 1-5).
Default	Upper Tray
Notes	Output Source options are supported only on printers with a 5-bin mailbox installed and the 5-bin mailbox option selected on the Device Options tab.

Paper Graphic

The paper graphic image changes according to Paper Size, Orientation and Duplex/Booklet selections, and will display the selected N-up setting.

Duplex/Booklet

Purpose	Allows you to specify whether and how your print job will be duplexed.
Choices	<p>Off</p> <p>Long Edge—Prints flipped horizontally on the long edge as in a loose-leaf notebook.</p> <p>Short Edge—Prints flipped vertically on the short edge as on a clipboard.</p> <p>Booklet Left Binding—Orients faces (2-up) with binding (fold) on left.</p> <p>Booklet Right Binding—Orients faces (2-up) with binding (fold) on right.</p> 
Default	Off
Notes	<p>Duplex/Booklet options are supported only on printers with a duplex unit installed and the duplexer option selected on the Device Options tab.</p> <p>Duplex/Booklet options are only available when Plain Paper is the Media Type.</p> <p>Printing with booklet binding produces four faces of print on each duplexed sheet of media (2-up on each side of the media). The faces are arranged so that when the media is folded, the page ordering is booklet style.</p> <p>To use Booklet Left Binding or Booklet Right Binding, the N-up option (on the Page Layout tab) must be Off.</p>

Media Type

Purpose	Sets the type of media to be printed.
Choices	Plain Paper mode—Long-grain paper 16–24 lb (60–90 g/m ²) Transparency mode—Transparencies 24–41.75 lb (90–157 g/m ²) Label Stock mode—Label stock 16–43 lb (60–163 g/m ²) Thick Stock mode—Thick stock 24–43 lb (90–163 g/m ²)
Default	Plain Paper
Notes	Duplex Options are available only when Plain Paper is selected as the Media Type.

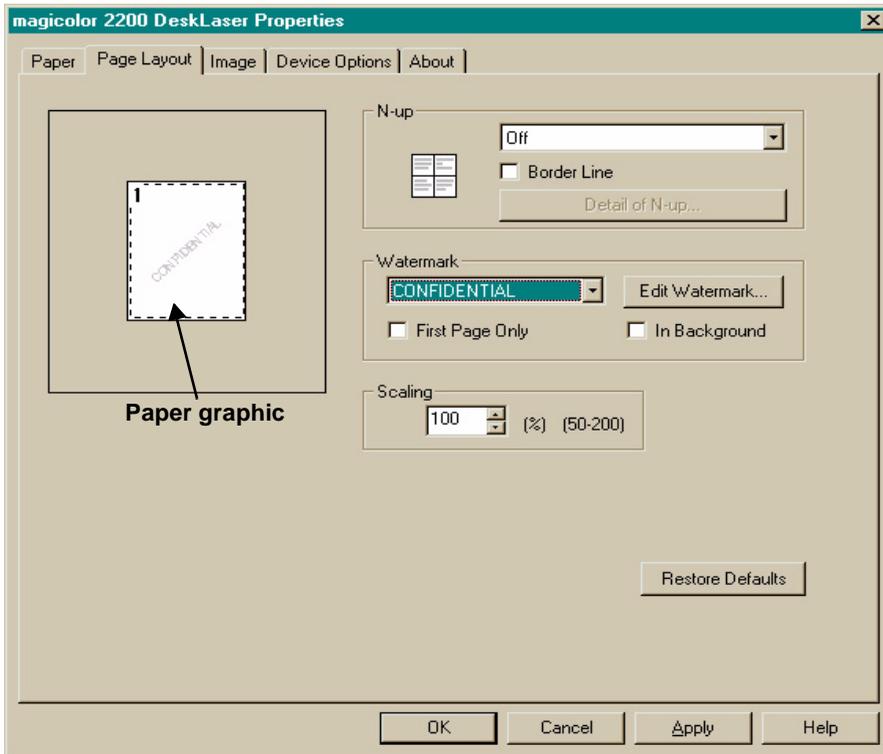
Default Button

The Default button on the Paper tab allows you to restore all of the options on the Paper tab to their default settings.



Configuring Page Layout Options

The Page Layout tab allows you to provide information about the number of document pages to print on a single side of media, the scaling percentage to be applied and the identification and placement of watermarks to be printed.

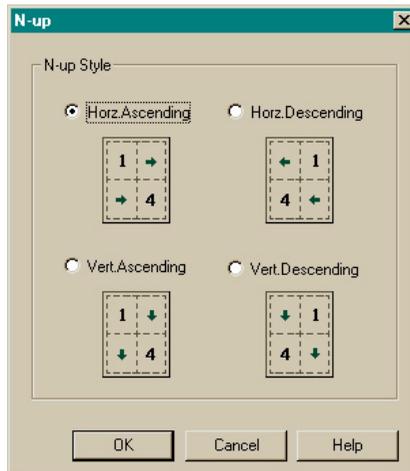


N-up (Number-up)

Purpose	Selects the number of document pages to print on a single side of the media.
Choices	Off —One document page will be printed on each media page. 2-, 4-, 6-, 9-, 16-Up —Multiple document pages will be printed on each media page.
Default	Off
Notes	The N-up option setting is disabled (grayed-out) if the Scaling option is in effect. To enable the N-up option, set the Scaling option setting to 100.

Detail of N-up Button

This button, which is activated when N-up is set to a choice other than Off, opens the N-up Style window to allow you to select the orientation of the document pages on your media.



N-up Style Buttons

Purpose	Each N-up style option is selectable by enabling (selecting) the button located next to the style graphic. Only one style may be selected at a time.
Choices	<p>Horz. Ascending</p>  <p>Horz. Descending</p>  <p>Vert. Ascending</p>  <p>Vert. Descending</p> 
Default	Horz. Ascending

Border Line

Purpose	Allows you to place a border line between N-up page images on the printed media.
Choices	Enabled (selected) —Prints a border line between N-up page images. Disabled —No border line is printed.
Default	Disabled

Scaling

Purpose	Allows you to set the magnification of your document page as it is printed on the media.
Choices	50%–200%
Default	100
Notes	The Scaling option setting is disabled (grayed-out) if N-up page layout is in effect. To enable the Scaling option, change the N-up setting to Off.

Watermark

Purpose	Allows you to select the type of watermark to be printed on the media.
Choices	(Customizable list) —Selects the watermark chosen from the list.
Default	None
Additional Choices	See “First Page Only,” “In Background,” and “Edit Watermark Button” in this section.

First Page Only Button

Purpose	This option setting determines whether the watermark only prints on the first page of the document or on all document pages.
Choices	Enabled (selected) —The watermark prints only on the first page of the document. Disabled —The watermark prints on all pages of the document.
Default	Disabled
Notes	This option is unavailable (grayed-out) until a watermark is selected.

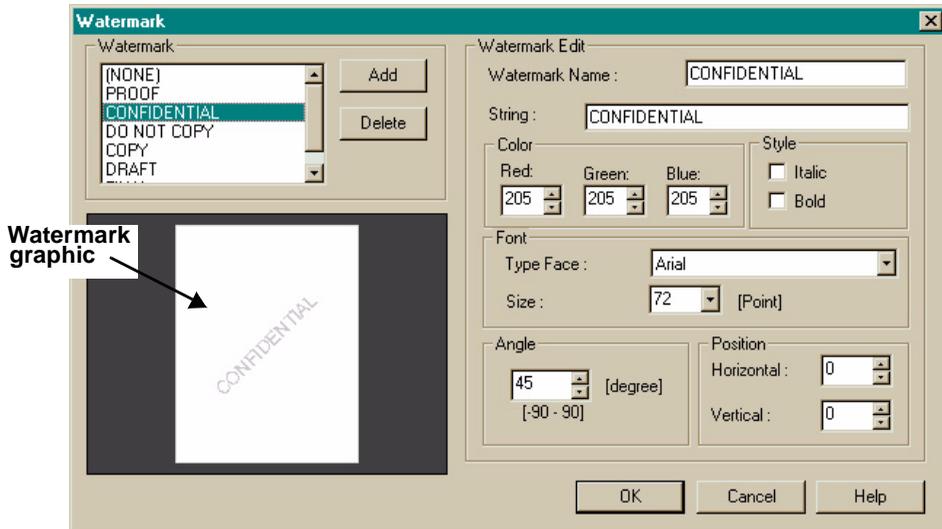
In Background

Purpose	Gives you the choice to have the watermark superimposed over the text or the text superimposed over the watermark.
Choices	Enabled (selected) —The document text is superimposed over the watermark. Disabled —The watermark is superimposed over the document text.
Default	Enabled
Notes	This option is unavailable (grayed-out) until a watermark is selected.

Edit Watermark Button

Selecting this button opens the Watermark window, where you can add, delete, or modify watermarks to be printed on your media

Editing an Existing Watermark



- 1 Select the watermark you want to edit from the Watermark list.
When you select a watermark, it displays in the watermark graphic, and the watermark configuration details appear in the Watermark Edit fields located on the right side of the window.
- 2 Make changes to the settings in each option as needed.
 See “Configuring Watermark Edit Options” on page 69 for a description of Watermark Edit options.
- 3 Choose OK to save your changes and close the Watermark window or choose Cancel to disregard your changes.
 If you choose another watermark from the list before selecting the OK button, any changes that were entered for the initial watermark selected will be lost.

Adding a New Watermark

- 1 Choose the Add button.
When the Add button is selected the Watermark Edit fields will be filled by default values. You may choose to accept or change any of the default option values.
- 2 Modify the settings for each Watermark Edit option as needed.
 See “Configuring Watermark Edit Options” on page 69 for a description of Watermark Edit options.
- 3 Choose OK to save your changes and close the Watermark window or choose Cancel to disregard your changes.

Deleting a Watermark

- 1 Select the watermark that you want to remove from the Watermark list.
- 2 Choose Delete.
The selected watermark disappears from the Watermark list.
- 3 Repeat steps 1 and 2 for each watermark that you want to remove.
- 4 Choose OK to save your changes and close the Watermark window or choose Cancel to disregard your changes.

Configuring Watermark Edit Options

The following configuration settings are available for watermark options located on the right-half of the Watermark window:

- **Watermark Name:** The name that identifies the watermark in the Watermark list.
- **String:** The watermark text that appears on the printed media.
- **Color:** Either type or use the scroll buttons on this control to adjust the hue of the watermark string. There is an adjustment control for red, blue, and green.
- **Style:** Gives you optional choices of bold and italic text for your watermark.
- **Font:** Allows you to specify the font and font size for your watermark. You may choose from any of the fonts installed on your computer. Changes to the font and/or font size are reflected in the watermark graphic.
- **Angle:** This option allows you to set the angle of the watermark on your media. You may select any angle between -90 and 90 degrees. Changes to the angle setting are reflected in the watermark graphic.
- **Position:** Use the horizontal and vertical controls to adjust the position of the watermark on the media. Changes to the position setting are reflected in the watermark graphic.



To center the watermark on the media, set the horizontal and vertical position control values to 0.

Watermark Graphic

The Watermark Graphic is located on the lower-left side of the Watermark window. The graphic shows the media in the selected print orientation with the currently selected watermark. Changes to the Watermark Edit option settings are represented by changes to the appearance of the graphic.

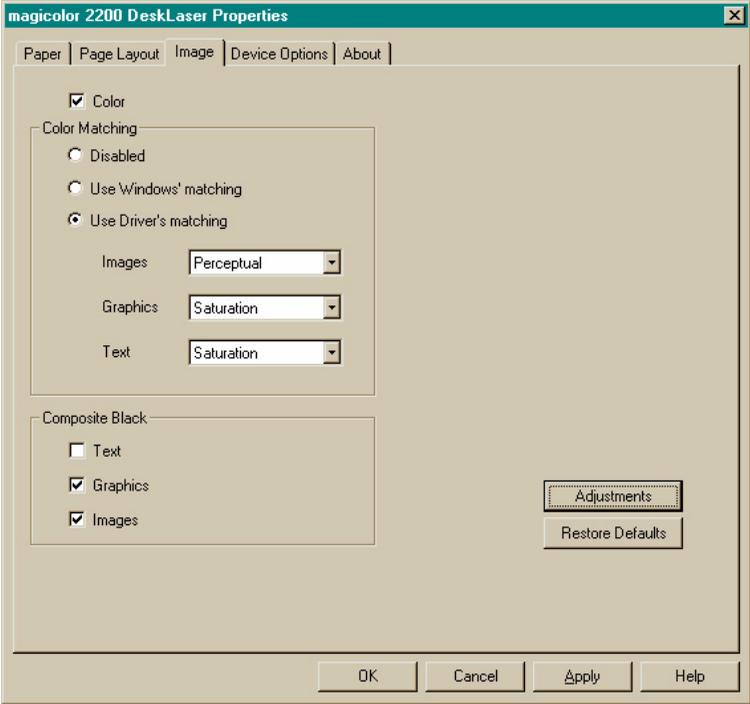
Default Button

The Default button on the Page Layout tab allows you to restore the options on this tab to their default settings.



Configuring Image Options

The Image tab allows you to provide settings for color selection, color matching, document type, composite black, and resolution.



Color

Purpose	Selects color or monochrome printing.
Choices	Enabled (selected) —Full color (cyan, magenta, yellow, and black) Disabled —Monochrome (black only)
Default	Enabled (selected)
Notes	The Disabled setting is designed only for text and grayscale graphics. If Color is disabled, the Composite Black settings are not available (grayed-out).

Color Match

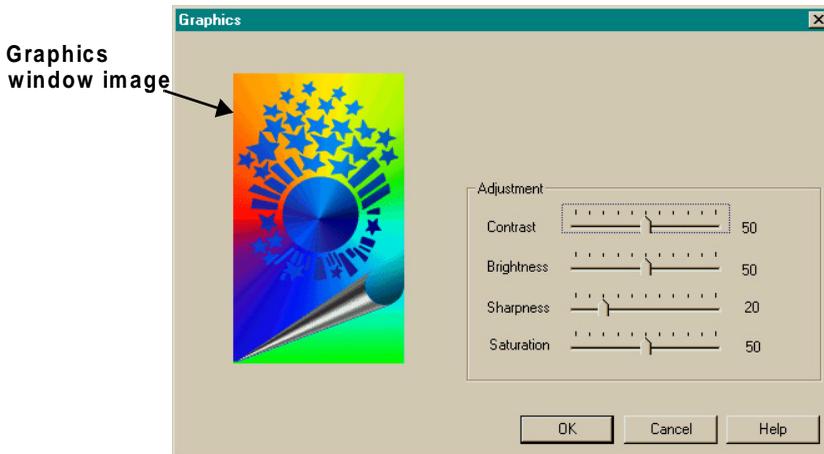
Purpose	Selects the method for color matching.
Choices	<p>Disabled—No color matching is applied by the printer driver.</p> <p>Use Windows' matching—Applies the color matching provided by ICM-based applications (for example, PhotoShop and CorelDRAW).</p> <p>Use Driver's matching—Uses the driver's ICC color profile files to apply color matching to bitmap objects. When selected, the drop-down list for Images, Graphics, and Text allows you to select from the following choices:</p> <p>Perceptual—optimized for printing photographic images. Colors that are out of the printer's gamut (color range) are replaced with the closest color within the gamut. When this substitution is made, other specified colors, whether in the printer's gamut range or not, are equivalently adjusted so that the overall image appearance and contrast is maintained.</p> <p>Colormetric—optimized for printing spot colors, such as logos and single solid colors where hue accuracy is crucial. For those colors that can't be produced on the printer, the closest color the printer can produce is substituted.</p> <p>Saturation—optimized for printing presentation graphics, such as overhead transparencies, spot color and text, and documents requiring a high level of color saturation. With this selection, the intensity of the colors is most closely matched.</p>
Default	Use Driver's matching.
Notes	The ICC profile file (DL220012.ICM —1200x600 resolution) is located in the \WINDOWS\SYSTEM\COLOR directory (Windows Me/98/95) or in the \WINNT\SYSTEM32\SPOOL\DRIVERS\COLOR directory (Windows 2000/NT4).

Composite Black

Purpose	Sets each of the three types of rendered objects (Text, Graphics, and Bitmap objects) to print in composite black (using a combination of cyan, magenta, and yellow toner), or true black (black toner only).
Choices	Enabled (checked—will print in composite black) Disabled (not checked)—will print using true black
Default	Text—Disabled, will print using true black Graphics—Enabled, will print in composite black Images—Enabled, will print in composite black

Adjustment Button

The Adjustment Button opens the Graphics window, where you can make adjustments to contrast, brightness, saturation, and sharpness.



Brightness and Contrast Adjustments

Purpose	Allow you to customize the brightness (lightness and darkness) and contrast of an image. Brightness—Increase for a lighter print; decrease for darker. Contrast—Increase for higher contrast print; decrease for lower contrast.
Choices	0%-100%
Default	The center setting (50%) on each slider bar.
Notes	The settings on the slider bars can be changed using keyboard arrow keys.

Saturation and Sharpness Adjustments

Purpose	Allow you to customize the color saturation and sharpness of an image.
Choices	0%-100%
Default	Saturation: 20% Sharpness: 50%
Notes	The settings on the slider bars can be changed using keyboard arrow keys.

Graphics Window Image

The image located on the left side of the Graphics window changes in appearance as adjustments are made.

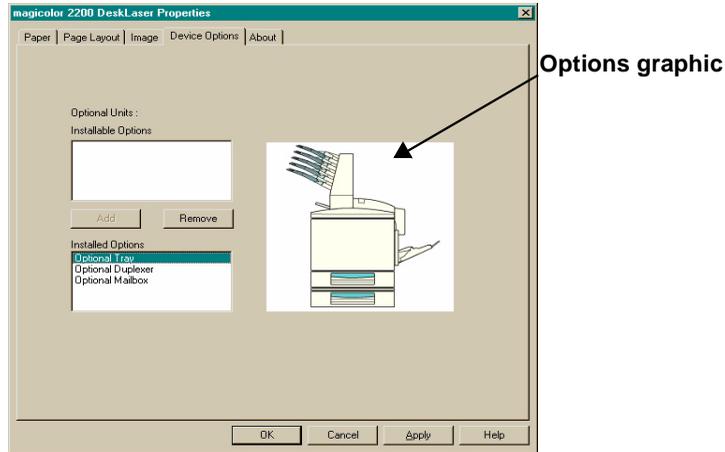
Restore Defaults Button

The Restore Defaults button on the Image tab allows you to restore the options on this tab to their default settings.



Configuring Device Options

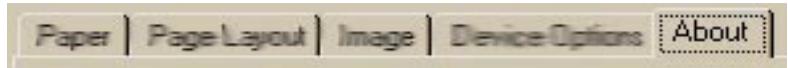
The Device Options tab allows you to identify which options have been installed on your printer.



Installable Options, Installed Option Lists, and Options Graphic

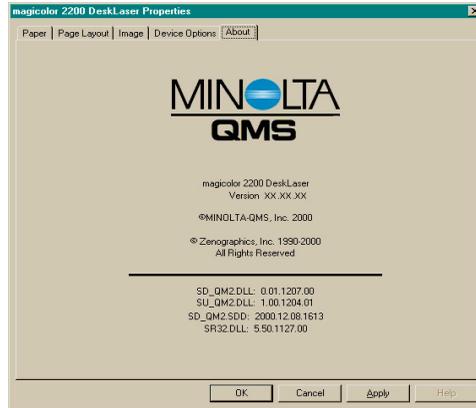
The Installable Options list displays all printer options that are available for your printer. The Installed Options list displays the current configuration that has been selected. These settings are represented by changes in the Options Graphic.

Adding an Option	Removing an Option
<ol style="list-style-type: none"> 1 Select the option you want to add from the Installable Options list. 2 Choose Add. <p>The option you selected now appears in the Installed Option list and in the Options Graphic.</p>	<ol style="list-style-type: none"> 1 Select the option you want to remove from the Installed Options list. 2 Choose Remove. <p>The option you selected now appears in the Installable Option list and is removed from the Options Graphic.</p>



Information on the About Tab

The About tab contains the version information for your printer driver and associated files.



Sharing the Printer

The magicolor 2200 DeskLaser may be shared via two communication protocols:

- Ethernet

Refer to your Windows online help for information about printer sharing. Windows NT4/Me/98/95 users who intend to print over a network using TCP/IP need to install the Crown Print Monitor (Windows 2000 users can use the print monitor that comes with the operating system).

- Parallel

Refer to your Windows online help for information on sharing printers and files. See “Plug and Play Printer Driver Installation,” in the magicolor 2200 DeskLaser Installation Guide for installation instructions.

Using the Crown Print Monitor

The Crown Print Monitor (CROWNMON) for Windows is designed specifically for MINOLTA-QMS printers using TCP/IP protocol to transport print jobs and to access printer status information.

The Crown Print Monitor's Print Spooler (both workstation and server versions) controls the printing environment for both local and remote print jobs submitted through shared resources via TCP/IP. The Print Spooler "monitors" or "despoolers" are configured to service print jobs in a particular queue.

Components

■ Status component

This component obtains information from the printer, such as print job "go/nogo" and error or warning conditions. Status information displays in Print Manager through the print queue status dialog box. Status information comes from either the Windows Print Spooler, the Crown Print Monitor, or the printer, depending on where the job is in the printing process. See chapter 5, "Troubleshooting," for more information on status messages.

■ Send component



The Crown Print Monitor uses TCP/IP socket 35 for high-performance data transfer.

This component transports print jobs to a specific MINOLTA-QMS print device. When a job is sent to a print device by the Crown Print Monitor, it utilizes all allocated Windows operating system resources to transport the job. If a connection is broken while a job is being transported, the monitor gives control back to the Print Monitor Print Spooler. Any job sent to the printer while it is recovering from the break in communication is flushed from the Windows print queue.

■ Configuration component

This component configures the port name, Internet address, time delays, and problem sound alert. It consists of the Add MINOLTA-QMS Port and Configure MINOLTA-QMS Port dialog boxes. All configuration changes made via this component are automatically recorded in the Windows system registry.

Viewing the Crown Print Monitor

- 1 From the Start menu, choose Settings.
- 2 From the Settings menu, choose Printers.
- 3 Double-click the magicolor 2200 DeskLaser printer icon.

Attention

Do not cancel a print job in the Crown Print Monitor while the job is paused.

Whenever a print job is sent to that port, its status is reported in a status window. The following table explains the status window field names:

Field Name	Explanation
Status	The current state of the print job in process. A print job either proceeds in a normal error-free state or it is in an error state. Error states can be nonvolatile like PAPER OUT or PAPER JAM or volatile like the inability to connect to a target printer (this state is displayed as Printer Not Responding).
Document Name	The document's title (it may also be the filename). Remote Downlevel Document displays when the client workstation, spooling jobs to an NT server, does not transmit complete job information. See your Microsoft Windows NT documentation for more information on this message.
Owner	The document owner.
Printed at	The time the print job is submitted to the NT Print Spooler.
Pages	The number of pages in the document.
Size	The document size.
Priority	The document priority in the queue. Range of Priorities is 1–99.



Maintaining the Printer

4

Introduction

Keeping the printer clean and updated with the latest system software allows you to take full advantage of printer features and capabilities. This chapter describes how to clean the printer and how to update the system software.

Printer Care

Handle the printer with care to preserve its life. Abuse may cause damage and void your warranty. If dust and paper scraps remain on the inside or outside of the printer, printer performance and print quality will suffer, so the printer should be cleaned periodically. Keep the following guidelines in mind:

- When cleaning the printer, always turn it off (O) and unplug it. Disconnect all interface cables before cleaning inside the printer.

If you have an optional 5-bin mailbox installed, turn the printer off first, then turn off the mailbox.

- Either clean the printer before use, or allow time after unplugging it to allow the fuser unit to cool down.

Attention

The fuser unit is hot. When the top cover is opened, the fuser unit temperature drops gradually (one hour wait time).



- Be careful when cleaning the inside or removing paper jams, as the fuser unit and other internal parts may become very hot.
- Do not place anything on the top of the printer.
- Use a soft cloth to clean the printer.

WARNING!

Do not spill water or detergent into the printer; otherwise, the printer will be damaged and an electric shock may occur.

- Never spray cleaning solution directly on the printer's surface; the spray could penetrate through the air vents of the printer and damage the internal circuits. Avoid using abrasive or corrosive solutions or solutions that contain solvents, (such as alcohol and benzene) to clean the printer.
- Always test any cleaning solution (such as mild detergent) on a small area of your printer to check the solution's performance.
- Never use sharp or rough implements, such as wire or plastic cleaning pads.
- Always close the printer covers gently. Never expose the printer to vibrations.
- Do not put a cover on the printer immediately after using it. Turn it off and wait until it cools down.
- Do not leave the printer's covers open for any length of time, especially in well-lit places; light may damage the OPC drum cartridge.
- Do not open the printer during printing.
- Do not tap paper stacks on the printer.
- Do not tilt, lubricate, or disassemble the printer.
- Do not touch the electrical contacts, gears, or laser beam devices. Doing so may damage the printer and cause the print quality to deteriorate.
- Keep media in the output tray at minimum level. If the media stacks too high, your printer may experience media jams and excessive media curl.
- Lift the printer from the bottom only, using the carrying grips and the carrying bars. Make sure two people are available to lift the printer when moving it.
When moving the printer, keep the printer level to avoid toner spillage.
- If you get toner on your skin, wash it off with cool water and neutral detergent.

WARNING!

If you get toner in your eyes, wash it out immediately with cool water and consult a doctor. Material Safety Data Sheets (MSDS) information can be found at www.minolta-qms.com (click on the Answer Base).

- Read all caution and warning labels carefully, making sure to follow any instructions contained in them. These labels are located on the inside of the printer’s covers and the interior of the printer body.
- Make sure any parts removed during cleaning are replaced before you plug in the printer.

See *chapter 8, “Repacking the Printer,”* for printer storing and shipping instructions.

Cleaning

You should perform a thorough cleaning every 30,000 single-sided pages or 12 months, whichever comes earlier.

Always test any cleaning solution (such as a mild detergent) on a small area of your printer to check the solution’s performance.

Use	Avoid
A soft dry cloth to clean the control panel	Sharp or rough implements (such as wire or plastic cleaning pads) Any liquid
A soft damp cloth to clean the printer	Sharp or rough implements (such as wire or plastic cleaning pads)
Mild detergent to clean the printer	Abrasive or corrosive solutions that contain solvents (such as alcohol or benzine)

This item needs cleaning...	After...	See...
Duplex unit paper guides or rollers	Every 30,000 single-sided pages, or 12 months, whichever comes earlier.	<i>Maintenance Guide.</i>
Laser lens cover	Removing the waste toner pack to clean around it or to replace it.	
Paper exit rollers	Every 30,000 single-sided pages, or 12 months, whichever comes earlier.	
Printer exterior	As needed.	
Printer interior	Every 30,000 single-sided pages, or 12 months, whichever comes earlier.	

Updating System Software

The system software in your magicolor 2200 DeskLaser is stored in flash ROM, read-only memory that can be erased and rewritten to “in a flash.” This allows you to update the system software through the printer interface without opening up the printer and installing new PROMs. The system software is updated by sending a specified file to the printer.

Downloading Methods

You can use Ethernet TCP/IP or a parallel connection to download the system file to the printer.

Download Method	See
Ethernet TCP/IP	“Downloading the System File via Ethernet (TCP/IP)” on page 84.
Parallel	“Downloading the System File via Parallel” on page 87.

System File

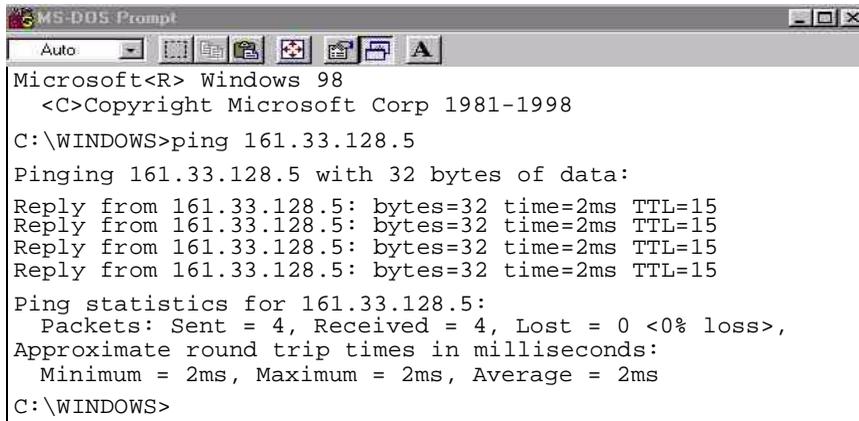
To perform an update you need to download a system file to your printer. The system file filename identifies the system version number and ends with an `.img` filename extension. The printer must remain inactive during the download process.

Downloading the System File via Ethernet (TCP/IP)

First, you need to make sure that the printer is on and accessible through your network.

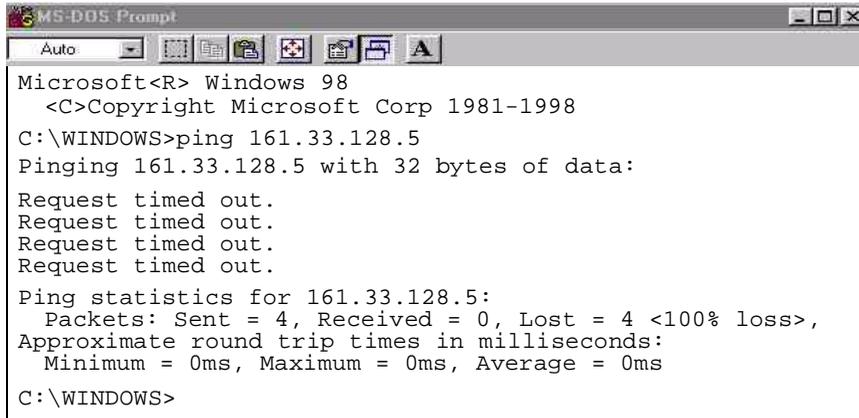
- 1 From your PC:
 - a From the Start menu choose Run...
 - b Type `command`.↵
 - c In the DOS window, type
`ping ipaddress`↵ (for example, `ping 161.33.128.5`)

If the printer connection is working correctly, your screen will display printer information similar to the following:



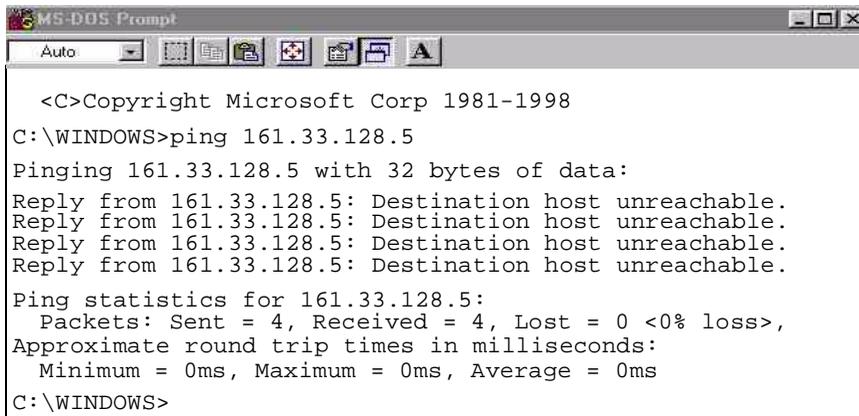
```
MS-DOS Prompt
Auto
Microsoft<R> Windows 98
<C>Copyright Microsoft Corp 1981-1998
C:\WINDOWS>ping 161.33.128.5
Pinging 161.33.128.5 with 32 bytes of data:
Reply from 161.33.128.5: bytes=32 time=2ms TTL=15
Ping statistics for 161.33.128.5:
    Packets: Sent = 4, Received = 4, Lost = 0 <0% loss>,
    Approximate round trip times in milliseconds:
        Minimum = 2ms, Maximum = 2ms, Average = 2ms
C:\WINDOWS>
```

If your screen displays information similar to the following, you may have bad network cabling or connectors attached to the printer. Check the cabling and connectors.



```
MS-DOS Prompt
Auto
Microsoft<R> Windows 98
<C>Copyright Microsoft Corp 1981-1998
C:\WINDOWS>ping 161.33.128.5
Pinging 161.33.128.5 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.
Ping statistics for 161.33.128.5:
  Packets: Sent = 4, Received = 0, Lost = 4 <100% loss>,
  Approximate round trip times in milliseconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\WINDOWS>
```

Incorrect IP addresses can cause errors similar to ones shown in the following:



```
MS-DOS Prompt
Auto
<C>Copyright Microsoft Corp 1981-1998
C:\WINDOWS>ping 161.33.128.5
Pinging 161.33.128.5 with 32 bytes of data:
Reply from 161.33.128.5: Destination host unreachable.
Ping statistics for 161.33.128.5:
  Packets: Sent = 4, Received = 4, Lost = 0 <0% loss>,
  Approximate round trip times in milliseconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\WINDOWS>
```

After you've determined that your printer connection is working correctly, you need to ftp and "put" the new system file to the printer.

 *Make sure that the printer's message window displays "IDLE" before continuing this procedure.*

- 2 Change to the directory where the system file is located.

For example, assume the file is located on magicolor 2200 DeskLaser CD-ROM under the directory "loadcode" and that the drive letter for the CD-ROM is E. To change to the directory where the file is located you would use the following sequence of commands.

```
C:\Windows\Desktop> e:↵
```

```
E:> cd loadcode↵
```

- 3 At a command prompt, type

```
ftp ipaddress↵ (for example, ftp 161.33.128.5↵)
```

- 4 When prompted for a user name and password, press Enter for both.

An ftp> prompt displays.



If a message displays denoting invalid password, contact your system administrator. Otherwise, continue.

- 5 At the ftp> prompt, change to binary mode by typing

```
bin↵
```

WARNING!

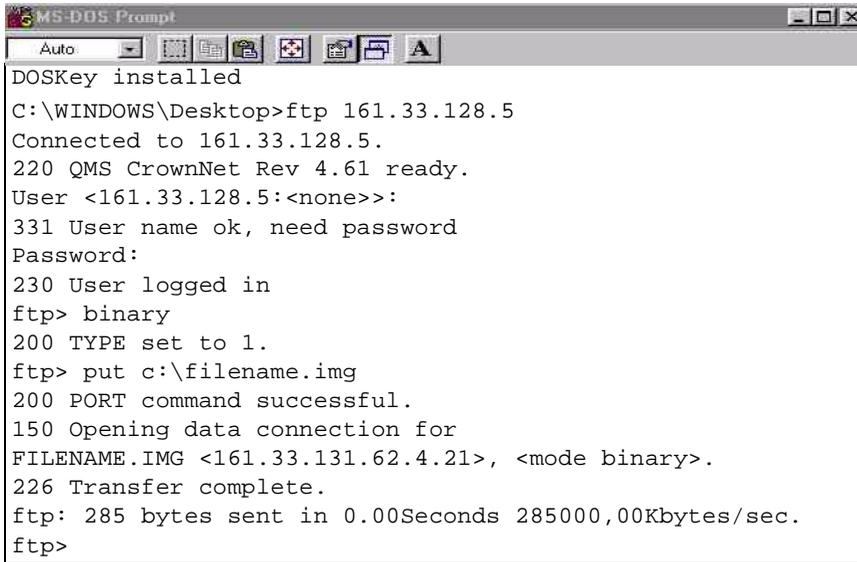
Interrupting the download process may corrupt your printer's operating system. Do not attempt to stop the download or use the printer's control panel after the download process is started. After the file download, allow the printer to automatically reboot on its own to complete the process. Do not manually reboot the printer.

6 Now you need to “put” the system file. Type

```
put x↵
```

where *x* is the name of the system file.

The downloading process takes several minutes.



```
MS-DOS Prompt
Auto
DOSKey installed
C:\WINDOWS\Desktop>ftp 161.33.128.5
Connected to 161.33.128.5.
220 QMS CrownNet Rev 4.61 ready.
User <161.33.128.5:<none>>:
331 User name ok, need password
Password:
230 User logged in
ftp> binary
200 TYPE set to 1.
ftp> put c:\filename.img
200 PORT command successful.
150 Opening data connection for
FILENAME.IMG <161.33.131.62.4.21>, <mode binary>.
226 Transfer complete.
ftp: 285 bytes sent in 0.00Seconds 285000,00Kbytes/sec.
ftp>
```

7 At the ftp> prompt, end the ftp session by typing
quit↵

Downloading the System File via Parallel

Use the following procedure for installing a system file via the parallel port.

Attention

Connect the parallel port of the printer to your computer prior to turning on the printer and computer. Turn the printer on first, then the computer.

- 1 Turn on the printer.
- 2 From the Start menu choose Run...

- 3 Type `command`.↵
- 4 At the command line, change to the directory where the system file is located

*For example, assume the file is located on *magicolor 2200 Upgrade CD-ROM* under the directory "loadcode" and that the drive letter for the CD-ROM is E. To change to the directory where the file is located you would use the following sequence of commands.*

```
C:\Windows\Desktop> e:↵  
E:> cd loadcode↵
```

WARNING!

Interrupting the download process may corrupt your printer's operating system. Do not attempt to stop the download or use the printer's control panel after the download process is started. After the file download, allow the printer to automatically reboot on its own to complete the process. Do not manually reboot the printer.

- 5 Copy the system file to the parallel port

```
copy /b x lpty:↵
```

where *x* is the filename of the system file and *y* is the lpt port number being used. The downloading process takes several minutes.

Future Updates

You can find printer software for your printer on our Internet website. Go to <http://www.minolta-qms.com/support>, and then select your printer from the list. The download link is located under the heading "Printer-Specific Firmware."



Troubleshooting

5

Introduction

This chapter provides information to aid you in resolving printer problems you may encounter, or at least guide you to the proper sources for help.

Printing a Sample Page

Print a sample page to verify the printer is printing correctly.

Press Key	(Until) Display Reads
Online	IDLE (and online LED is off)
Menu	LANGUAGE
Next (►)	SAMPLE PAGE
Select	*YES
Select	IDLE (and online LED is on)

Preventing Media Jams

Make sure that...	Avoid...
Media matches the printer specifications	Media that is folded, wrinkled, or excessively curled
Media is flat, especially on the leading edge	Double feeding (<i>remove the media and fan the sheets—they may be sticking together</i>)
The printer is on a hard, flat, level surface	Fanning transparencies since this causes static
You have the correct media type selected if you're printing on envelopes, labels, thick stock, or transparencies	Loading more than one type/size/weight of media in a tray at the same time
You store media in a dry location away from moisture and humidity	Overfilling the media input trays
You always adjust the media width regulation guides in the multipurpose tray <i>after</i> inserting the media (<i>a guide that is not properly adjusted can cause poor print quality, paper jams, or printer damage</i>)	Allowing the output tray to overfill (<i>the face-down output tray has a 500-sheet capacity—jamming may occur if you allow media to accumulate more than 500 sheets at a time</i>)

Also make sure that you remove transparencies from the output tray immediately to avoid static buildup, and that you load the media (for single-sided pages) printing-side up in the upper or optional trays or printing-side down in the multipurpose tray.



Many manufacturers place an arrow on the end of the wrapper to indicate the printing side.

Automatic Jam Recovery

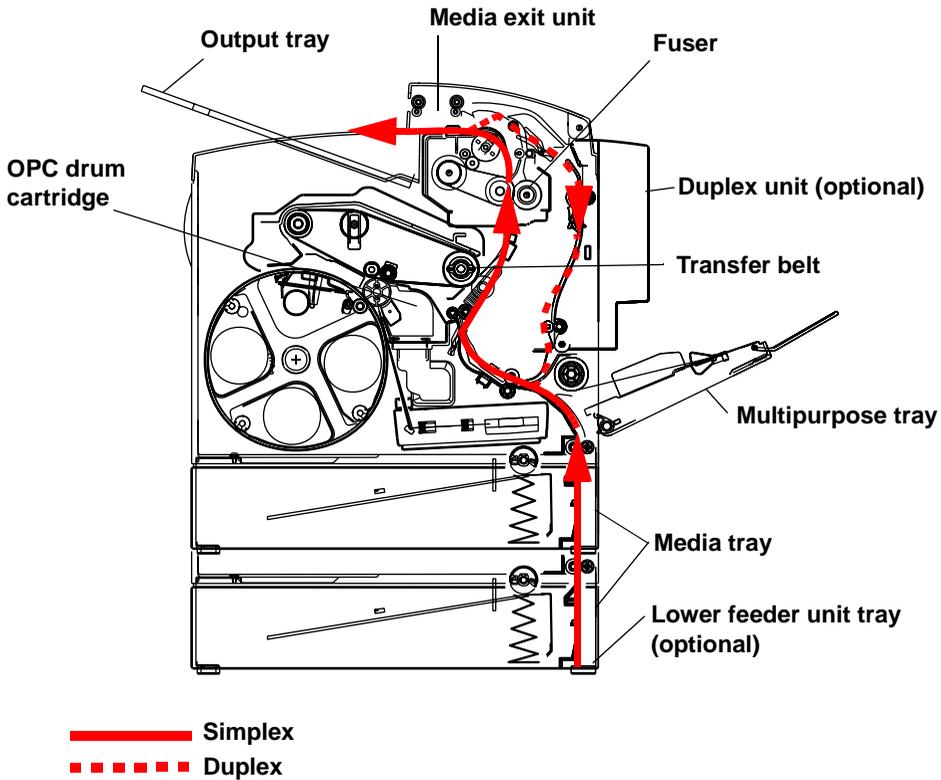
The magicolor 2200 DeskLaser provides automatic jam recovery (when enabled through the Engine/Error Recovery menu). After you remove any jammed media, printing automatically resumes from the page the printer stopped at when the jam occurred.



For automatic jam recovery to work, it is necessary to leave the printer turned on when you remove the jammed media.

Understanding the Media Path

Understanding the printer's media path will help you locate media jams.



Media Tray

The media tray(s) is (are) located at the bottom front of the printer. The media is picked from the tray, passed under the OPC drum cartridge and the transfer belt, passed through the fuser, and delivered via the paper exit unit to the output tray on top of the printer.

Multipurpose Tray

The multipurpose tray is located at the right of the printer. The media is picked from the multipurpose tray, passed under the OPC drum cartridge and the transfer belt, passed through the fuser, and delivered via the paper exit unit to the output tray on top of the printer.

Duplex Unit (optional)

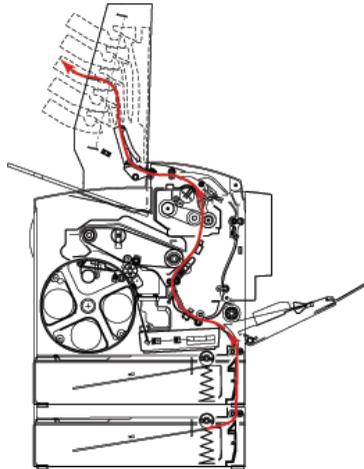
The media is picked from a media tray, passed under the transfer belt, passed through the fuser, fed into the duplex unit where the media undergoes a change in direction, cycles through the transfer belt and fuser again, and is delivered via the paper exit unit to the output tray, which is the top of the printer.

Since several sheets cycle through the printer/duplex unit at the same time, recovering from a media jam may require the removal of more than one sheet.

To manually duplex, remove the media, flip it over, and reload it.

5-bin Mailbox (optional)

The 5-bin mailbox is located on the top of the printer. The media is picked from the tray, passed under the transfer belt, passed through the fuser, and delivered via the paper exit unit to the 5-bin mailbox, which is on top of the printer.



Clearing Media Jams

To avoid damage, always remove jammed media gently, without tearing it. Any pieces of media left in the printer, whether large or small, can obstruct the paper path and cause further jams. Do not reload media that has jammed.

Attention

The image is not fixed on the media before the fusing process. If you touch the printed surface, the toner may stick to your hands, so be careful not to touch the print face when removing the jammed media. Make sure not to spill any toner inside the printer. Unfused toner can dirty your hands, clothes, or anything else it gets on. If you accidentally get toner on your hands, wash them in cool water. If you accidentally get toner on your clothes, lightly dust them off as much as possible. If some toner remains on your clothes, use cool, not hot water, to rinse the toner off, provided your clothing is washable. If toner gets on your skin, wash it off with water or a neutral detergent.

WARNING!

If you get toner in your eyes, wash it out immediately with cool water and consult a doctor. Material Safety Data Sheets (MSDS) information can be found at www.minolta-qms.com (click on the Answer Base).

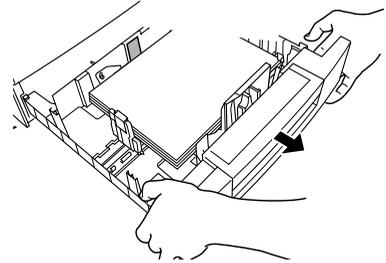
If, after clearing the media jam, the jam message in the control panel window persists, open and close the printer's covers. This should clear the jam message.

Handling Media Jams by Location

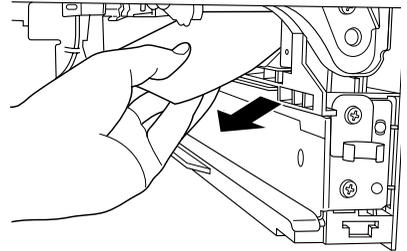
Location of Jam	Page Reference
Tray 1—multipurpose tray	page 96
Tray 2—upper tray Tray 5—optional tray (lower feeder unit)	page 95
Near OPC drum	page 98
Near duplex unit	page 101
In mailbox	page 104

Clearing Misfeed (Upper or Optional Tray) Jams

- 1 Remove the media tray(s).



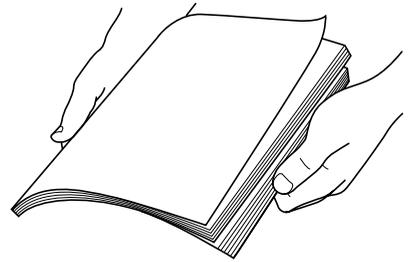
- 2 Carefully remove and dispose of the jammed media.



- 3 Remove any media remaining in the media tray(s) and even up the front edges.

- 4 Reinsert the media printing face up.

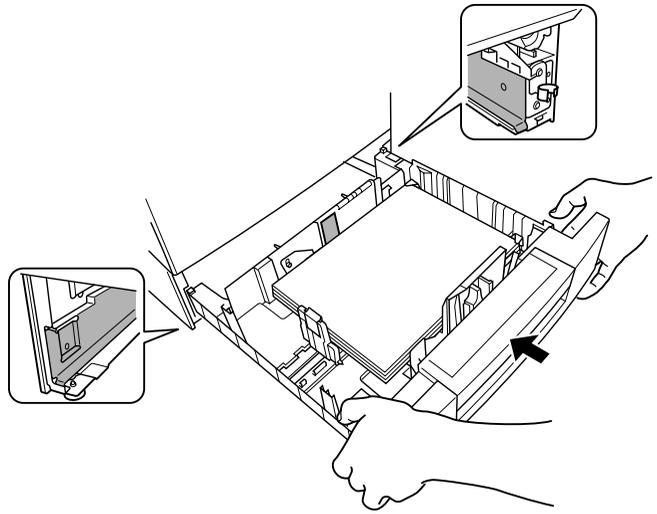
Make sure the media is lying flat, is under the media separating tabs, and doesn't exceed the media limit mark. Check the media width guides for correct positioning.



5 Slide the tray(s) back into the printer.

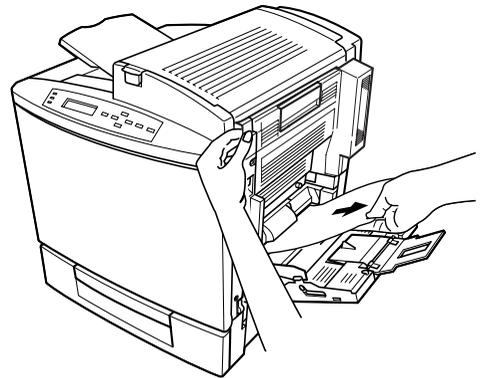
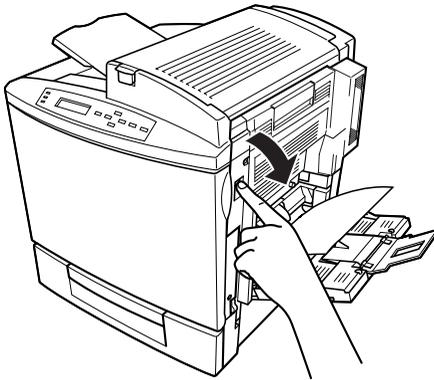
6 Open the front cover, then close it.

The media jam error message is cancelled.

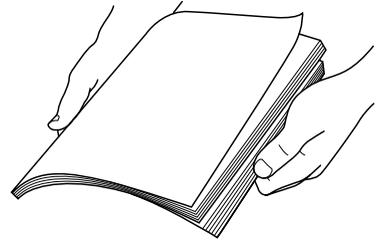


Clearing Misfeed (Multipurpose Tray) Jams

- 1 Remove the media from in the multipurpose tray.
- 2 Press the right-side cover release button and support the cover in a partially-open position.
- 3 Carefully remove the jammed media.



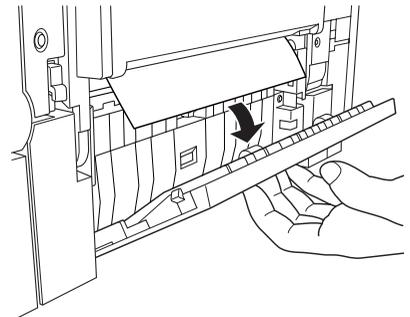
- 4 Close the right-side cover.
- 5 Shuffle the remaining media that was removed in step 1 and even up the front edges.
- 6 Reinsert the media printing face down.
Make sure the media is lying flat and doesn't exceed the media limit mark. Check the media width guides for correct positioning.
- 7 Open the front cover, then close it.
The media jam error message is cancelled.



Clearing Inner Jams, Outer Jams, and Drum Jams

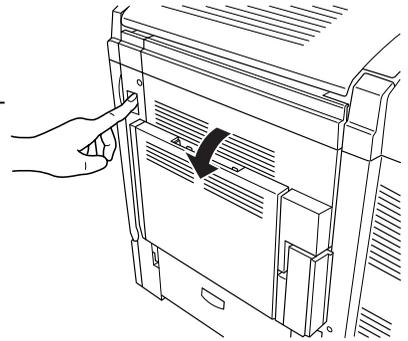
Media Jams inside the Lower Right Door (Vertical Transport Area)

- 1 Open the lower right door(s).
- 2 Carefully remove the jammed media.
- 3 Close the lower right door(s).
The media jam error message is cancelled.

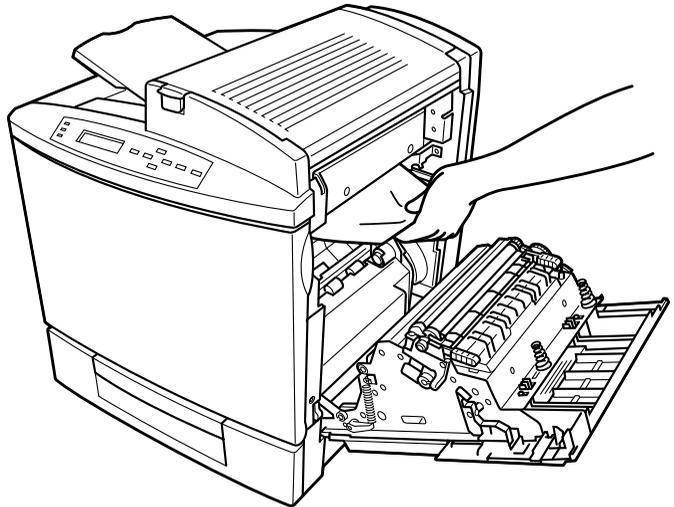


Media Jams near the OPC Drum

- 1 If there is any media in the multipurpose tray, remove it and close the multipurpose tray.
- 2 Press the right-side cover release button and carefully open the cover all the way.



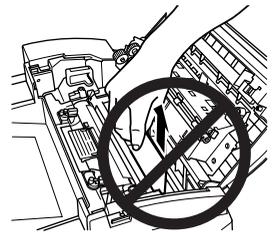
- 3 Remove the jammed media by pulling it slowly from the bottom of the fuser.



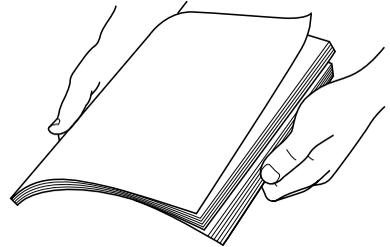
⚠ Attention

Do not pull jammed media from the top of the printer through the fusing rollers.

This prevents any unfused toner from dirtying the fuser rollers.

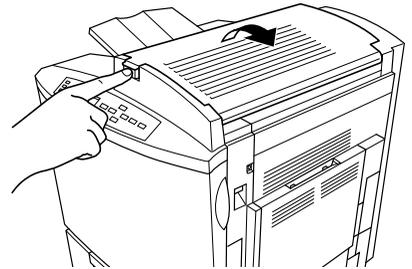


- 4 Close the right-side cover.
The media jam error message is cancelled.
- 5 Check the release button to make sure the cover is securely closed.
- 6 If media was removed in step 1, open the multipurpose tray.
- 7 Shuffle the media that was removed in step 1 and even up the front edges.
- 8 Reinsert the media printing face down.
Make sure the media is lying flat and doesn't exceed the media limit mark. Check the media width guides for correct positioning.



Media Jams near the Optional Duplex Unit

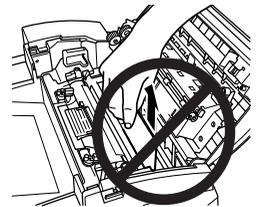
- 1 Open the top cover.



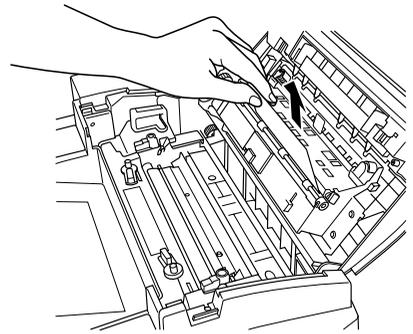
Attention

Do not pull jammed media from the top of the printer through the fusing rollers.

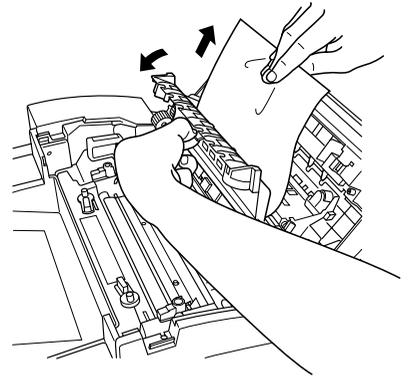
This prevents any unfused toner from dirtying the fuser rollers.



- 2 Carefully remove the jammed media in the top cover media reverse area.

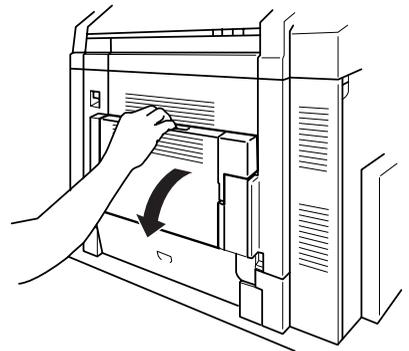


- 3 Open the media jam removal cover with your left hand and carefully remove the jammed media in the duplex media feed area with your right hand.

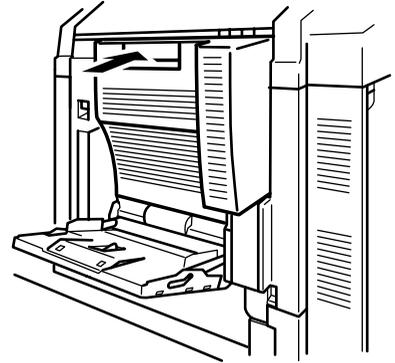


- 4 Close the media jam removal cover with your left hand and close the top cover.
- 5 Check the release button to make sure the door is securely closed.

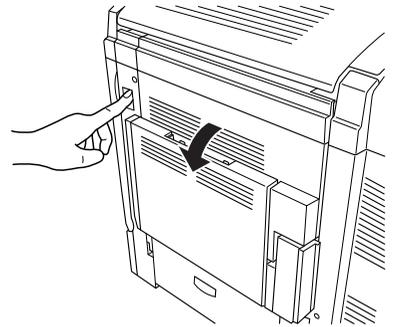
- 6 If the multipurpose tray is closed, open it.



- 7 Pressing the duplex unit cover release, carefully open the cover.
- 8 Remove the jammed media.
- 9 Close the duplex unit's cover.



- 10 If there still is a jam message, press the right-side cover release button and carefully open the cover all the way.

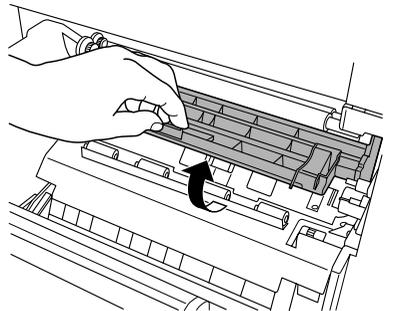


- 11 Lift the inner paper guide.
- 12 Remove the jammed media by pulling it toward you.

If the media came out easily, skip ahead to step 15.

If the media did not come out easily or if you cannot reach the media from this area, keep the duplex unit's lower cover open.

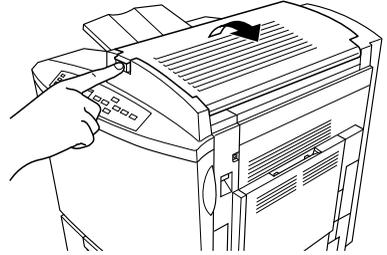
- 13 Open the duplex unit cover.
- 14 Remove the jammed media by pulling it slowly from the bottom of the fuser rollers.
Be careful not to touch the transfer belt while removing jammed media.



- 15 Close the printer's top cover.
- 16 Close the duplex unit's paper guide, lower cover, and top cover.

Media Jams near the Fuser Unit

- 1 Open the top cover.



⚠ Attention

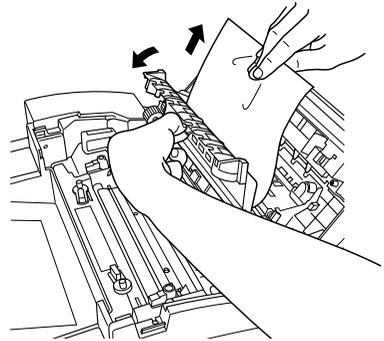
Do not pull jammed media from the top of the printer through the fusing rollers.

This prevents any unfused toner from dirtying the fuser rollers.



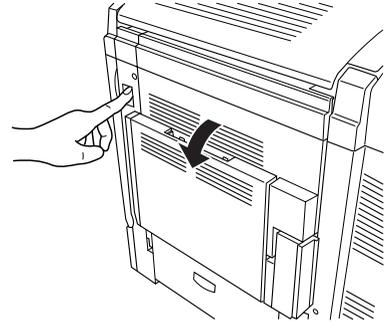
- 2 Carefully remove the jammed media.
- 3 Open the media jam removal cover and carefully remove the media that is jammed there.
- 4 Close the media jam removal cover.
- 5 Close the top cover.

Check the release button to make sure the top cover is securely closed.

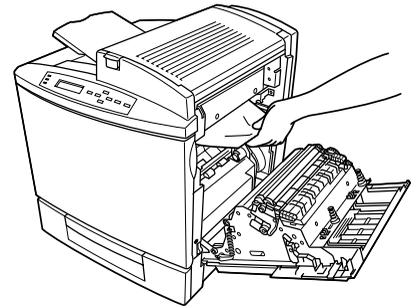


- 6 Open the right-side cover.
- 7 Remove the jammed media by pulling it slowly from the bottom of the fuser.

Be careful not to touch the transfer belt while removing jammed media.

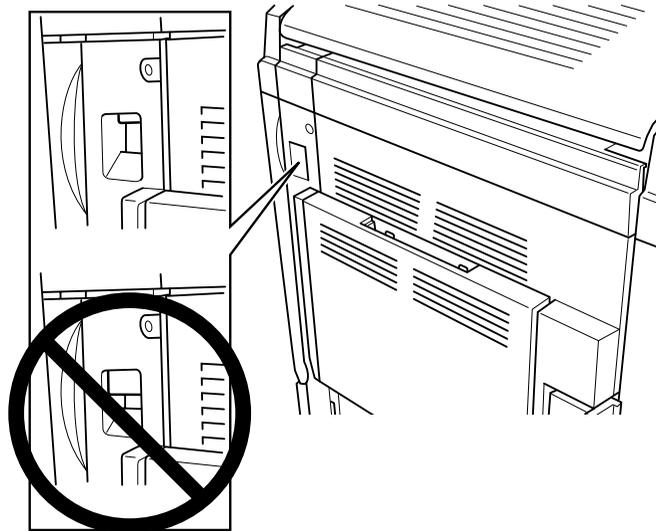


- 8 Close the right-side cover.



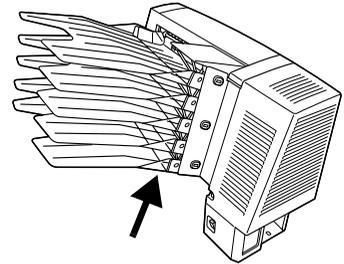
Check the release button to make sure the duplex unit cover is securely closed.

The media jam error message is cancelled.

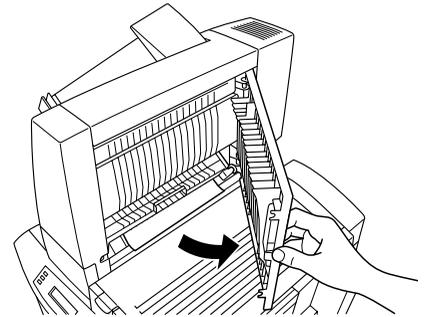


Media Jams in the Optional 5-bin Mailbox

- 1 Carefully remove the jammed media from the media eject area of the mailbox.



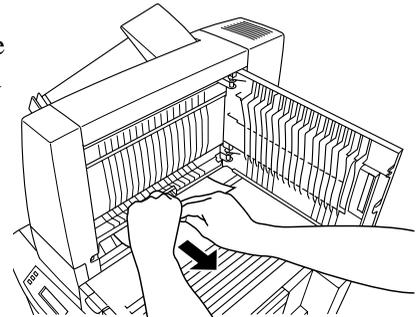
- 2 Open the mailbox door.



- 3 If a media jam exists in the media entry area of the mailbox, lift up the media jam removal guide in the mailbox and carefully remove the jammed media.

- 4 Close the mailbox door.

The media jam error message is cancelled.



Clearing Jams from the Output Tray

Remove jammed media from the printer's output tray by gently pulling the media to the left away from the media exit area.

Solving Problems with Media Jams



Frequent jams in any area indicate that area should be checked, repaired, or cleaned. Repeated jams may also happen if you're using the wrong weight print media.

Symptom	Cause	Solution
Several sheets go through the printer together.	The front edges of the media are not even.	Remove the media and even up the front edges, then reload it.
	The media is moist from humidity.	Remove the moist media and replace it with new, dry media.
Paper jam message stays on	Front cover needs to be opened and closed again to reset the printer.	Open and close the front cover of the printer again.
	Some media remains jammed in the printer.	Recheck the paper path and make sure you have removed all of the media jams.
5-bin mailbox jams.	The wrong media is being used.	Make sure that you are using only plain paper (or recycled plain paper).
		Make sure that you are using only letter/A4 paper.
Duplex unit jams.	The wrong media is being used.	Use only supported media. Refer to the "Media Types" on page 35.
		Plain paper and thick stock up to 28 lb bond (105 g/m ²) can be autoduplexed if the optional duplex unit is installed. For heavier weights, manual duplexing is required. To manually duplex, remove the media, flip it over, and reload it.
		Make sure that you have not mixed media types in your multipurpose tray.
	Do not duplex envelopes, glossy stock, labels, transfer media, or transparencies.	
Media may still be jammed.		Check for media stuck in the paper guides in the duplex unit's top cover, and the media supply area on the lower left of the printer.
		If you removed jammed media from near the OPC drum, reset the OPC drum's locking levers.

Symptom	Cause	Solution
Media is jamming.	The media is not correctly positioned in the tray.	Remove the jammed media and reposition the media properly in the tray.
	The number of sheets in the tray exceeds the maximum allowed.	Remove the excess media and reload the correct number of sheets in the tray.
	The width regulation guides are not correctly adjusted to the media size.	Adjust the regulation guides in the tray to match the size of the media.
	The media in upper or optional tray is not under the media separating tabs.	Remove the media and reload it so the front corners are under the media separating tabs.
	Warped or wrinkled media is loaded in the tray.	Remove the media, smooth it out, and reload it. If it still jams, do not use that media.
	Labels, letterhead, envelopes, postcards, thick stock, or transfer material are loaded in the upper or optional tray.	Special media must be loaded in the multipurpose tray only.
	The recommended transparency (OHP) or label paper is facing the wrong way in the multipurpose tray.	Load the transparencies or labels according to the manufacturer's instructions.
	Envelopes are facing the wrong way in the multipurpose tray.	Load the envelopes in the multipurpose tray so the flaps are facing up.
		If the flaps are on the short edge, set the envelopes in the multipurpose tray so that the flaps are on the printer side.
	Multiple sheets of transparency (OHP) media are collecting static electricity in the tray.	Remove the OHP media and load them in the tray one sheet at a time. Do not fan transparencies before loading them.
	The media is moist from humidity.	Remove the moist media and replace it with new, dry media.
Unsupported media (wrong size, thickness, type, etc.) is being used.	Use media that is covered by the printer warranty.	
Media supply roller is dirty.	Clean the media supply roller.	

Solving Other Problems

Symptom	Cause	Solution
Data was sent to the printer, but it doesn't print.	An error message is displayed in the message window.	Handle according to the message displayed.
	The transfer belt installation guide is not set correctly in the installation rail.	Remove the transfer belt. Place the front end of the intermediate transfer unit installation guide (2 locations) correctly in the installation rail. Next, lightly push in the unit about 6 inches (152.4 mm). Release the top handle. Holding the front handle, carefully push the transfer belt in.
Printer resets.	Occasionally, software applications interfere with each other.	Some applications send a printer prep file to the printer at the beginning of each document. When this occurs, other prep files cannot be sent without resetting the printer. Monitor your activities to see if there is a correlation between your use of a certain application and the printer resetting. If so, contact the application developer.
Printing takes too much time.	The printer is set to a slow printing mode (for example, for OHP, thick stock, or some other special kind of media).	It takes more time to print with special media. When using regular paper, make sure that the media type is set properly in the driver.
	The printer is set to power saving mode.	It takes a little time for printing to start in power saving mode. If you do not want to use this mode, disable it.
	The printer memory is insufficient.	Add optional memory.

Symptom	Cause	Solution
You are experiencing problems duplexing.	Media or settings are not correct.	Make sure that you are using only plain paper. Do not duplex envelopes, glossy stock, labels, postcards, transfer media, or transparencies. Make sure that you have not mixed media types in your multipurpose tray.
		Make sure that your document has more than one page.
		Go into the printer driver and make sure that the duplex unit is selected device option.
		In the printer driver, choose Short Edge (flipped as on a clipboard), Long Edge (flipped as in a loose-leaf notebook), Booklet Left Binding (fold on left), or Booklet Right Binding (fold on right). Make sure that you are using correct media.
		Make sure that all of the covers are closed. Open and then close the covers to confirm that they are securely closed.
		If you turned the printer off, make sure that you have turned the printer on again and waited for it to warm up
Transfer belt cannot be removed.	The OPC drum unit is installed.	Remove the OPC drum unit, then remove the transfer belt.
	The transfer belt left release lever is not set in the transfer belt removal position.	Turn the transfer belt left release lever clockwise to the 4 o'clock position, then remove the transfer belt.
You are experiencing problems with the 5-bin mailbox.	The wrong media is being used.	Make sure that you are using only letter/A4 plain paper.
The printer pauses.	The printer pauses for the Auto-Image Density Control (AIDC) cycle.	After 100 1-sided pages of a continuous print run, the magicolor 2200 DeskLaser automatically pauses to do an AIDC cycle. This process is provided to make sure reliable printer operation with optimum output quality.

Symptom	Cause	Solution
Blank pages come out during a printing job	The toner cartridge is empty or missing.	Check the toner cartridges. The image does not print if the cartridges are empty.
		If the toner cartridges are not empty and blank pages are ejecting, take each cartridge out, rock it from side to side, and reinstall it in the printer.
	The wrong media is being used.	Check that the media type set in the driver matches the media loaded in the printer.
Not all pages print.	The printer could have the wrong kind of cable.	Check your cable.
	The Cancel key was pressed.	Make sure no one pressed the Cancel key while your job was printing.
	The media tray is empty.	Check the message window to see if the tray you are using is out of media.
Print is unclear.	A new toner cartridge has been installed, but the "break-in" period has not been reached.	Print at least 20 pages to achieve maximum printing quality using the new cartridge.

Symptom	Cause	Solution
Printer power is not on.	The power cord is not correctly plugged into the outlet.	Turn the power switch to the off (O) position, then unplug the power cord from the outlet and plug it back in.
	The mailbox power cord is not correctly connected.	Turn the printer power switch and the mailbox power switch to the off (O) position, then reconnect the mailbox power cord using the procedure below: <ul style="list-style-type: none"> —Connect the mailbox power cord plug end to the mailbox power socket (lower connection). —Connect the mailbox power cord socket end to the printer power plug. —Connect the printer power cord socket end to the mailbox power plug (upper connection). —Plug the printer power cord plug end into the outlet. —Turn the mailbox power switch on. —Turn the printer power switch on.
	The power switch is not correctly turned on.	Set the power switch to the off (O) position, then set it back to the on (I) position.
		Turn the printer power switch and the mailbox power switch to the off (O) position, then turn on the power again using the procedure below: <ul style="list-style-type: none"> —Turn the mailbox power switch on. —Turn the printer power switch on.
	Something is wrong with the outlet you are using for the printer.	Plug another electrical appliance into the outlet and see whether it operates properly.
The printer is connected to an outlet with a voltage or frequency that does not match the printer specifications.	Use a power source with the following specifications: <ul style="list-style-type: none"> —Power <ul style="list-style-type: none"> Japan: 100 VAC 50–60 Hz 12 amps North America: 120 VAC 50–60 Hz 8 amps Europe: 220-240 VAC 50–60 Hz 6 amps Latin America: 120 VAC 50–60 Hz 8 amps <li style="padding-left: 40px;">220-240 VAC 50–60 Hz 6 amps —Voltage fluctuation <ul style="list-style-type: none"> Japan: 100 VAC ±10% North America: 120 VAC ±10% Europe: 220-240 VAC ±10% Latin America: 120 VAC ±10% <li style="padding-left: 40px;">220-240 VAC ±10% —Frequency fluctuation rate within 50/60 ±3 Hz 	

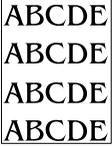
Solving Problems with Printing Quality

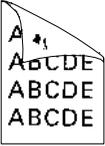
Symptom	Cause	Solution
Nothing is printed. 	The toner cartridge is damaged.	Remove the toner cartridge and check for damage. If necessary, replace it.
	The driver is not set correctly.	Select the proper setting in the driver to switch from transparency (OHP) film to plain paper.
	The OPC drum cartridge is damaged.	Remove the OPC drum cartridge and check for damage. If necessary, replace the entire drum kit.
	The transfer roller unit is misinstalled.	Reset the transfer roller unit.
	The media is moist from humidity.	Adjust the humidity for paper storage. Remove the moist media and replace it with dry media.
	The media set in the driver mismatches the media loaded in the printer.	Load the correct media in the printer.
Image is too light; there is low image density. 	Image darkness sensor is dirty.	Open the front cover. Lift up the transfer belt release lever to the 12 o'clock position. Next, return the lever to the 3 o'clock position. Repeat this operation several times. (This cleans the surface of the image darkness sensor.)
	The media is moist from humidity.	Remove the moist media and replace with dry media.
	There is not much toner left in the cartridge.	Remove the toner cartridge and gently rock it horizontally five or six times to redistribute the toner.
		Replace the toner cartridge.
	One or more toner cartridges are defective.	Remove the toner cartridges and check for damage. If necessary, replace it.
	Media type may be set incorrectly.	Envelopes, glossy stock, labels, transfer media, and thick stock have to be set in the thick stock mode.
	The transfer unit may be misinstalled or defective.	Reinstall the image transfer unit. If necessary, replace it.
	Image darkness (Auto-Image Density Control [AIDC]) sensor is dirty.	Open the front cover. Lift up the transfer belt release lever to the 12 o'clock position. Next, return the lever to the 3 o'clock position. Repeat this operation several times. (This cleans the surface of the image darkness sensor.)

Symptom	Cause	Solution
<p>The print contains whited out areas.</p> 	Media may be moist.	Remove the moist media and replace it with dry media.
	Humidity may be too high.	Adjust the humidity in the paper storage area.
	The fuser unit may be defective.	Check the fuser unit for damage. If necessary, replace it.
	The OPC drum cartridge is damaged.	Remove the OPC drum cartridge and check for damage. If necessary, replace the entire drum kit.
	The transfer roller unit is misinstalled.	Reset the transfer roller unit.
<p>Horizontal white lines appear in image.</p> 	The toner cartridge is damaged.	Remove the toner cartridge and check for damage. If necessary, replace it.
	The OPC drum cartridge is damaged.	Remove the OPC drum cartridge and check for damage. If necessary, replace the entire drum kit.
	The transfer unit is misinstalled.	Make sure that the transfer unit was correctly installed.
	The transfer roller is damaged.	Replace the transfer roller.
<p>Printouts seem faded on one side.</p> 	The printer is not on a level enough surface.	Level the printer (not exceeding 1.0° slant at any point around the machine).

Symptom	Cause	Solution
Irregular print or mottled image appears. 	The media is moist from humidity.	Remove the moist media and replace it with dry media.
There is insufficient fusing or the image comes off when rubbed. 	The media is moist from humidity.	Remove the moist media and replace it with dry media.
	Media with specifications not covered by the printer warranty is being used.	Use media that is covered by the printer warranty.
	Your media type may be incorrectly set.	Envelopes, glossy stock, labels, transfer media, and thick stock have to be set in the Thick Stock mode.
The print or color density may be uneven. 	The toner cartridges or the OPC drum may be near empty or damaged.	Remove the toner cartridges and gently rock them five or six times to redistribute the toner. Then, reinstall the cartridges. Install new toner cartridges.
	The OPC drum may be misinstalled or defective.	Reinstall the OPC drum cartridge. If necessary, replace the entire drum kit.

Symptom	Cause	Solution
Image is blurred; background is lightly stained; there is insufficient gloss of the printed image. 	One or more toner cartridges may be defective.	Check the toner cartridges. If necessary, replace them.
	The OPC drum may be mis-installed or defective.	Reinstall the OPC drum cartridge. If necessary, replace the entire drum kit.
	The fuser oil may be depleted.	Check the fuser oil condition. If necessary, replace it.
Background is foggy. 	The toner cartridge is defective.	Remove the toner cartridge and check for damage. If necessary, replace it.
	The OPC drum cartridge is damaged.	Remove the OPC drum cartridge and check for damage. If necessary, replace the entire drum kit.
Entire sheet is printed in black or color. 	The toner cartridge is defective.	Remove the toner cartridge and check for damage. If necessary, replace it.
	The OPC drum cartridge is damaged.	Remove the OPC drum cartridge and check for damage. If necessary, replace the entire drum kit.

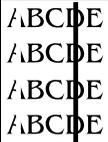
Symptom	Cause	Solution
Part of image is missing. 	The media is moist from humidity.	Remove the moist media and replace it with dry media.
	Media with specifications not covered by the printer warranty is being used.	Use media that is covered by the printer warranty.
	The toner cartridge is defective.	Remove the toner cartridge and check for damage. If necessary, replace it.
	The OPC drum cartridge is damaged.	Remove the OPC drum cartridge and check for damage. If necessary, replace the entire drum kit.
Image is too dark. 	The toner cartridge is defective.	Remove the toner cartridge and check for damage. If necessary, replace it.
	The OPC drum cartridge is damaged.	Remove the OPC drum cartridge and check for damage. If necessary, replace the entire drum kit.
Dark tones are uneven. 	The toner in the toner cartridges is uneven.	Remove the toner cartridges and gently rock them five or six times to redistribute the toner. Then, reinstall the cartridges.
	The OPC drum cartridge is damaged.	Remove the OPC drum cartridge and check for damage. If necessary, replace the entire drum kit.

Symptom	Cause	Solution
There are toner smudges or residual images. 	Toner cartridge misinstalled or defective.	If the toner smudges are on only the front of the page: <ul style="list-style-type: none"> ■ Remove the toner cartridges and gently rock them five or six times to redistribute the toner. Then, reinstall the cartridges. ■ One or more toner cartridges may be defective. Check the toner cartridges. Install new ones, if necessary.
	The image transfer roller needs cleaning.	If toner smudges are on the front <i>and</i> back of the page: <ul style="list-style-type: none"> ■ Open the printer front cover once and close it again to clean the image transfer roller.
There are dark spots on the image. 	The fuser oil roller is dirty or worn.	Remove the fuser oil roller and check the roller surface. If it is very dirty, replace it.
	The transfer belt is defective.	Remove the transfer belt and check for damage. If necessary, replace it.
There are toner smudges on the back side of the page (whether or not it has been duplexed). 	The paper transport rollers may be dirty.	Clean the paper transport, pressure, and fuser oil rollers. Check the transport roller. If necessary, replace it.
	The media path is dirty with toner.	Print several blank sheets and the excess toner should disappear.
	The fuser oil roller is dirty or worn.	Remove the fuser oil roller and check the roller surface for dirt or worn places. If necessary, replace the fuser oil roller.
	The toner cartridge is defective.	Remove the toner cartridge and check for damage. If necessary, replace it.
	The OPC drum cartridge is defective.	Remove the OPC drum cartridge and check for damage. If the cartridge is damaged, replace the entire drum kit.
	The fuser unit is defective.	Replace the fuser unit.

Symptom	Cause	Solution
<p>Image defects in same place on every page.</p> 	<p>The transfer belt is defective.</p>	<p>Remove the transfer belt. If necessary, replace it.</p>
<p>Abnormal areas (white or black belt) appear in a regular pattern.</p> 	<p>Width of abnormal area: 1.25" (31.75 mm)</p> <p>The toner cartridge is damaged.</p>	<p>Remove the toner cartridge with the color causing the abnormal image. Replace it with a new toner cartridge.</p>
	<p>Width of abnormal area: 3" (76.2 mm)</p> <p>The transfer belt is damaged.</p>	<p>Replace the transfer belt.</p>
	<p>Width of abnormal area: 3.25" (82.55 mm)</p> <p>The OPC drum cartridge is damaged.</p>	<p>Replace the entire drum kit.</p>
	<p>Width of abnormal area: 8" (203.2 mm)</p> <p>The transfer belt is damaged.</p>	<p>Replace the transfer belt.</p>

Symptom	Cause	Solution
Image defects cyclical (evenly spaced).	Lateral image defects have 1–2 mm spacing.	Replace the entire drum kit.
	Lateral image defects have 35 mm spacing.	Replace the color toner cartridge.
	 Lateral image defects have 75 mm spacing.	Replace the image transfer roller.
	Lateral image defects have 95 mm spacing.	Replace the entire drum kit.
	Lateral image defects have 204 mm spacing.	Replace the fusing unit.
	Lateral image defects have other spacing.	Replace the entire drum kit.
Abnormal areas (white or black belt or spots) appear.	The toner cartridge may be defective.	Remove the toner cartridge and check for damage. If necessary, replace it.
	The OPC drum cartridge may be defective or scratched.	Remove the OPC drum cartridge and check the photosensitive surface (the green surface) for scratches. If necessary, replace the entire drum kit.
	 The fuser oil roller is dirty or worn.	Remove the fuser oil roller and check the roller surface for dirt or scratches. If necessary, replace the fuser oil roller.
	The fuser belt may be dirty.	Clean the fuser belt.
	The fusing unit may be defective.	Replace the fusing unit.

Symptom	Cause	Solution
Lateral lines or bands appear on image. 	The printer is not on a level enough surface.	Level the printer (not exceeding 1.0° slant).
	The media path is dirty with toner.	Print several sheets and the excess toner should disappear.
	The fuser oil roller is dirty or worn.	Remove the fuser oil roller and check the roller surface for dirt or worn places. If necessary, replace the fuser oil roller.
	The toner cartridge is defective or damaged.	Remove the toner cartridge and check for damage. If necessary, replace it.
	The OPC drum surface is scratched.	Remove the OPC drum cartridge and check the green photosensitive surface for scratches. If necessary, replace the entire drum kit.
	The transfer belt is misinstalled or defective.	Remove the transfer belt and reinstall it. If necessary, replace it.
Lateral lines appear cyclically (evenly spaced) on image. 	Lateral lines have 1–2 mm spacing.	Replace the entire drum kit.
	Lateral lines have 35 mm spacing.	Replace the color toner cartridge.
	Lateral lines have 75 mm spacing.	Replace the image transfer roller.
	Lateral lines have 95 mm spacing.	Replace the entire drum kit.
	Lateral lines have 204 mm spacing.	Replace the fusing unit
	Trailing edge 35 mm, other spacing	Replace the entire drum kit.

Symptom	Cause	Solution
Vertical streaking appears. 	The laser lens cover may be dirty.	Check to see if the laser lens cover is dirty. If necessary, clean it with a clean soft cloth.
	One or more toner cartridges may be defective.	The item may be defective or misinstalled. Remove the designate item, check it for damage and reinstall it. If necessary, replace it.
	The OPC drum may be defective or misinstalled.	
	The fuser unit may be defective or misinstalled.	
	The transfer unit may be defective or misinstalled.	
	If a wide vertical white band appears, check the transfer belt surface.	Clean the transfer belt surface. If necessary, replace it.
Make sure that the transfer unit is closed.		
Colors are not registering properly; colors are mixed or have page-to-page variation.  	The front cover may not be properly closed.	Make sure that the printer's front cover is closed.
	The OPC drum cartridge is not correctly seated.	Remove the OPC drum cartridge and reinstall it.
	The toner in the cartridges may need to be redistributed.	Remove the toner cartridges and gently rock them five or six times to redistribute the toner. Then, reinstall the cartridges.
	The toner cartridge may be defective.	Remove the toner cartridge and check for damage. If necessary, replace it.
	The media is moist from humidity.	Remove the moist media and replace it with dry media.
The transfer roller is misinstalled.	Confirm the proper installation of the transfer roller.	

Symptom	Cause	Solution
The image is offset. 	The OPC drum cartridge is defective.	Check the OPC drum cartridge. If necessary, replace the entire drum kit.
	The fuser oil roller is defective.	Check the fuser oil roller. If necessary, replace it.
	The fuser unit is defective.	Check the fuser unit. If necessary, replace it.
Colors look drastically wrong.	The toner cartridges are incorrectly installed.	Remove the toner cartridges and reinstall them.
The color has a poor reproduction or has poor color density. 	The paper image transfer is defective.	Check the OPC drum cartridge. If necessary, replace the entire drum kit.
	The Auto-Image Density Control (AIDC) detection sensor is dirty.	Open the front cover. Lift up the transfer belt release lever to the 12 o'clock position. Next, return the lever to the 3 o'clock position. Repeat this operation several times. (This cleans the surface of the AIDC detection [image darkness] sensor.)

Status, Error, and Service Messages

Status, error, and service messages are displayed in the control panel message window. They provide information about your printer and help you locate many problems. When the condition associated with a displayed message has changed, the message is cleared from the window.

Status and Error Messages



Status messages are not displayed while the printer is off line.

This message...	means...	Do this...
<X> COVER OPEN	The <X> (specified cover) is open and must be closed.	Close the cover.
<X> LIFE LOW	The <X> (specified item) is near end of life, such as the fuser oil roller. If you have a new fuser oil roller on hand, you may want to install it now. If you don't, order one now. A limited number of copies (about 100) will still print. However, when the oil runs out, the printer stops and the FUSER OIL EMPTY message appears.	Replace the specified item.
<x> MISSING	The <X> (specified item) is missing, such as the OPC drum or toner.	Install a new item.
<X> TONER EMPTY	The <X> (color) toner cartridge is empty.	Replace the toner cartridge.
<X> TONER LOW	The <X> (color) toner cartridge is low. There is still enough for approximately 100 letter/A4 pages (at 5% coverage) before the printer stops.	Redistribute the toner in the cartridge, or replace the cartridge.
ADJUST <INPUT> BIN	The <INPUT> (specified tray) is not inserted correctly.	Adjust the tray.
CALIBRATING	After 100 1-sided pages of a continuous print run, the magi-color 2200 DeskLaser automatically pauses to do an Auto-Image Density Control (AIDC) cycle.	Wait. No action needed. This process is provided to make sure reliable printer operation with optimum output quality.

This message...	means...	Do this...
CANCELLING JOB	The Cancel key has been pressed, and the print job in the print queue is being canceled.	Press Select and the job in the print queue will be canceled.
ENERGY SAVER	The printer is in energy saver mode to reduce power consumption during periods of inactivity. When a print job is received, the printer returns to normal power within 90 seconds. While in "deep sleep," the printer's message window will not display operator status such as door- and tray-open messages. The printer remains in "deep sleep," until a print job is received, or until the printer is manually switched from offline to online.	No action needed.
IDLE	The printer is on line, but no jobs are in process.	No action needed.
MAILBIN POWER OFF	The mailbox unit power is off.	Turn off the printer, turn on the mailbox unit, then turn on the printer.
MEDIA MISMATCH	The media detected in the tray doesn't match the media setting.	Change the media in the tray or change the media setting.
OUTPUT BIN FULL	The media has exceeded the limit in the specified output bin.	Remove the media from the specified output bin.

This message...	means...	Do this...
MEDIA JAM <x>	A jam has occurred in the <x> (input bin).	Locate and remove the jam.
MEDIA JAM DUPLEX	Media has jammed in the duplex area or duplex refeed area on the models with duplex units installed.	Locate and remove the jam.
MEDIA JAM EXIT	Media has jammed between the print engine and the output tray. A media jam has been detected between the fuser and output tray rollers located near the top cover. Exit jams occur in the media eject area.	
MEDIA JAM FUSER	Media has jammed leaving the fuser area.	
MEDIA JAM MAIL BIN	Mail bin jams occur if the media is jammed in the 5-bin mailbox between the printer and the 5-bin mailbox, in the mailbox eject area, or in the mailbox transport area.	
MEDIA JAM MPT	Media has jammed while being pulled from the specified multi-purpose tray.	
PAPER JAM LOWER TRAY	Tray jams occur between the standard upper or optional tray and the print engine. A misfeed jam may be a sheet of media not being picked, or it may be that the media was picked but not fed properly.	Locate and remove the jam.

This message...	means...	Do this...
MEDIA JAM TRANSFER	Transfer jams occur in the transfer roller area. This type of jam means that the media did not make it to the paper exit area.	Locate and remove the jam.
MEDIA JAM UPPER TRAY	Media has jammed while being pulled from the specified tray.	
MEDIA MISMATCH	The media detected in the tray doesn't match the media size setting.	Change the media in the tray or change the media size setting.
PROCESSING	The printer is actively processing jobs.	No action needed.
PUT <X> IN INPUT <Y>	The <X> specified media is not in the input tray <Y>.	Refill the tray with the specified type media.
PUT <SIZE> PAPER IN <BIN>	Engine/Chain Inputbins is set to Off and the displayed tray is empty. Refill it with the specified size media. <SIZE> is the media size detected by the engine, and <BIN> is the empty tray.	Refill the tray with the specified size media.
PUT <TYPE MEDIA> IN INPUT BIN	Engine/Chain Inputbins is set to On and a chained tray is empty.	Refill the tray with the specified type media.
REMOVE PAPER FROM MAILBIN <X>	The mailbin identified by <X> is full.	Remove the paper from the identified mailbin.
REPLACE <X>	The specified item <X> needs to be replaced, such as the OPC drum.	Replace the specified item.
WARMING UP	The printer is warming up.	Wait. No other action needed.

Service Messages

This service message...	Means...
SERVICE CALL 04 MAIN UNIT	An error has been detected with the item indicated in the service message. Correction of these errors is performed by a MINOLTA-QMS-authorized service provider only. Contact your local vendor.
SERVICE CALL 05 FLASH ROM	
SERVICE CALL 08 MAIN MOTOR	
SERVICE CALL 09 FUSING MOTOR	
SERVICE CALL 0B XFER FAN BELT	<i>A service message sometimes occurs as a result of an unusual combination of events, not because of an actual problem. When the printer stops and a service message displays in the message window, turn the printer off and then back on. This often clears the service message indicator, and printer operation resumes. Always try this before making a service call.</i>
SERVICE CALL 0C PWR SUPPLY FAN	
SERVICE CALL 0D ENGINE FAN	
SERVICE CALL 0E SUCTION FAN	
SERVICE CALL 0F FUSING UNIT FAN	
SERVICE CALL 10 POLYGON MOTOR	
SERVICE CALL 12 LASER MALFUNCTION	
SERVICE CALL 14 XFER ROLLER	
SERVICE CALL 15 XFER BELT CLN	Service calls should be placed to the vendor from whom you purchased the printer. If you cannot get service from your vendor, see the <i>Service & Support Guide</i> for additional contact information.
SERVICE CALL 16 XFER BELT ROTATE	
SERVICE CALL 17 TONER RACK	
SERVICE CALL 18 FUSER UPP WARMUP	
SERVICE CALL 19 FUSER UPP LOWTMP	
SERVICE CALL 1A FUSER UPP HIGTMP	
SERVICE CALL 1B FUSER UPP THERM	

This service message...	Means...
SERVICE CALL 1C FUSER LOW WARMUP	An error has been detected with the item indicated in the service message. Correction of these errors is performed by a MINOLTA-QMS-authorized service provider only. Contact your local vendor.
SERVICE CALL 1D FUSER LOW LOWTMP	
SERVICE CALL 1E FUSER LOW HIGTMP	
SERVICE CALL 1F FUSER LOW THERM	
SERVICE CALL 20 FUSER RETRACT	<i>A service message sometimes occurs as a result of an unusual combination of events, not because of an actual problem. When the printer stops and a service message displays in the message window, turn the printer off and then back on. This often clears the service message indicator, and printer operation resumes. Always try this before making a service call.</i>
SERVICE CALL 21 TRANS DET SENS	
SERVICE CALL 22 MAN TRAY LIFT	
SERVICE CALL 29 MEM MALF COUNTER	
SERVICE CALL 2A MEM MALF DATA	
SERVICE CALL 2B MEM MALF ACCESS	
SERVICE CALL 2C MEM MALF INSTALL	
SERVICE CALL 30 5BIN MAIL	Service calls should be placed to the vendor from whom you purchased the printer. If you cannot get service from your vendor, see the <i>Service & Support Guide</i> for additional contact information.
SERVICE CALL 31 5BIN INST MAIL	

Additional Assistance

If you've followed all of the instructions in this guide and still have problems you can't solve, refer to the *Service & Support Guide* or visit our web site at www.minolta-qms.com for current information on getting help.



*Installing Other
Accessories*

6

Introduction

This chapter provides information about the following accessories. Contact your local vendor for purchase information.

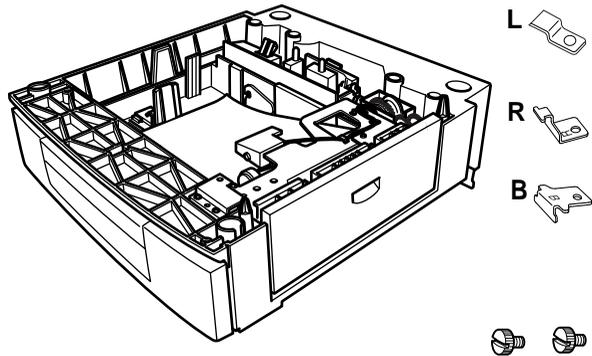
Lower Feeder Unit	Additional 500-sheet Letter/A4/Legal (Upper Media Tray).
Duplex Unit	Enables automatic duplex printing.
5-bin Mailbox	Three models: For 100-, 120-, or 220-volt printers.
BuzzBox	Via parallel connection for 100, 120, and 220 volts.
Dual In-Line Memory Module (DIMM)	Additional memory must be a 64 MB, PC-100 Compliant SDRAM DIMM, which will increase the memory to the 96 MB maximum.
Media Tray, 500 Sheet	Purchasing extra trays may be convenient when changing media formats and/or media qualities vary.
Printer Stand and/or Cabinet	Tabletop or floor model printer stand and/or cabinet.

Installing a Lower Feeder Unit (LFU)

Read this section if you purchased a lower feeder unit for your magicolor 2200 DeskLaser.

Kit Contents

- Lower feeder unit with a letter/A4/legal media tray (500 sheets)
- 3 metal brackets
 - Bracket L (1)
 - Bracket R (1)
 - Bracket B (1)
- 2 securing thumbscrews



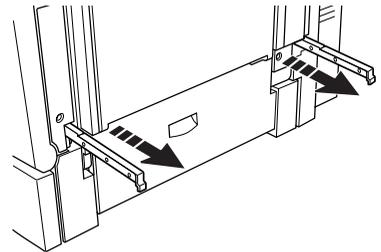
Installation

⚠ Attention

If consumables are installed in the printer, be sure to keep the printer level when moving it to prevent accidental spills.

If your printer is located in its permanent location, follow this procedure. Otherwise, skip to step 3.

- 1 Pull out the two carrying bars on the right side of the printer.



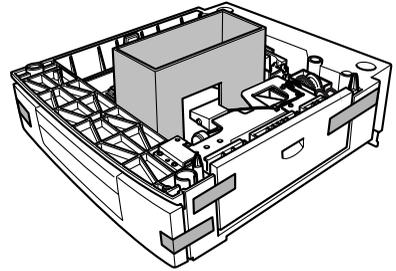
WARNING!

The printer weighs about 87.1 lb (39.5 kg) without accessories or consumables installed, and 133.7 lb (60.6 kg) with accessories and consumables installed. Always have two people to lift and move the printer to avoid back injury. Additional assistance may be required if lifting the printer above waist-level.

- 2 With one person holding the carrying bars and another holding the two grips on the left side of the printer, lift the printer and temporarily move it to a flat, level surface.
- 3 Remove the lower feeder unit from the shipping carton, and place it where the printer will be located.
- 4 Slide out the optional media tray from lower feeder unit.

5 Remove any tape and packing material.

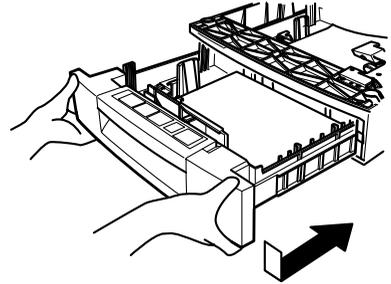
6 Put media in the optional tray.



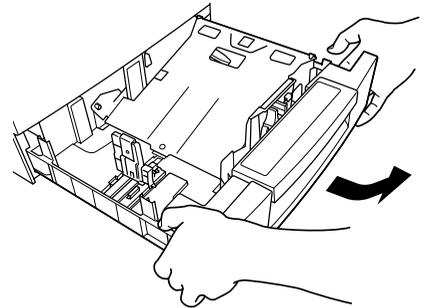
7 Slide the optional media tray all the way into the lower feeder unit.



If you have removed the tray from the lower feeder unit, slightly tilt up the front of the tray to insert it into the guide rails to slide it back in.

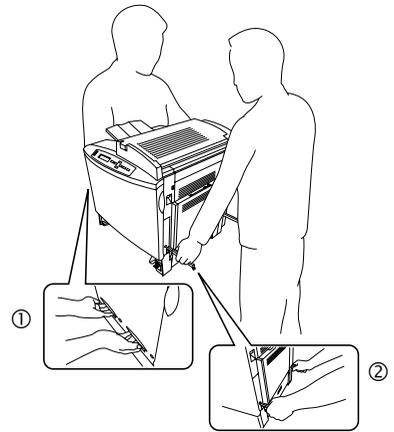


8 Slightly tilt up the printer's upper media tray to remove it.

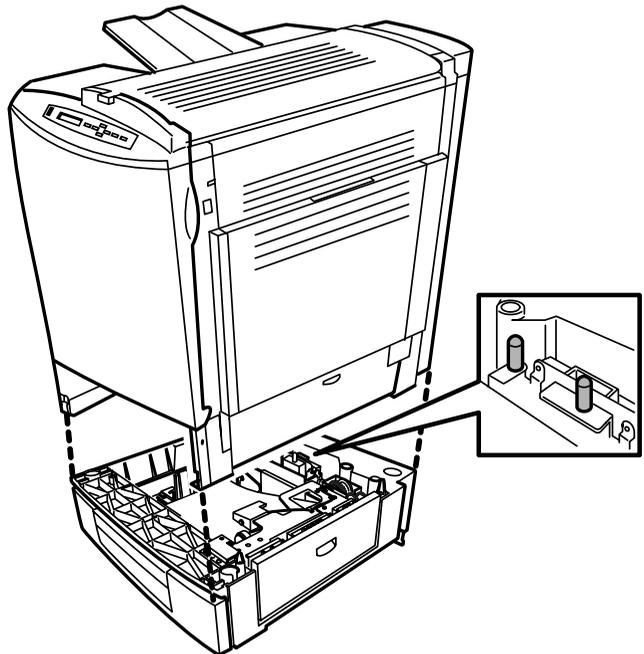


- 9 With another person's help, lift the printer.

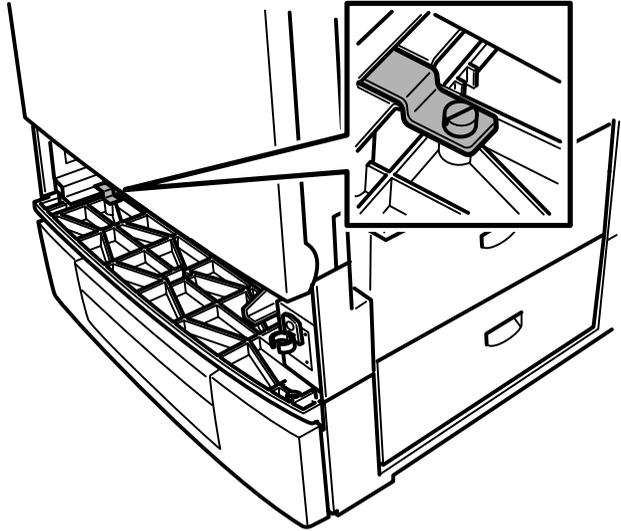
When lifting and carrying the printer, use the hand grips ① and the pull-out carrying bars ②.



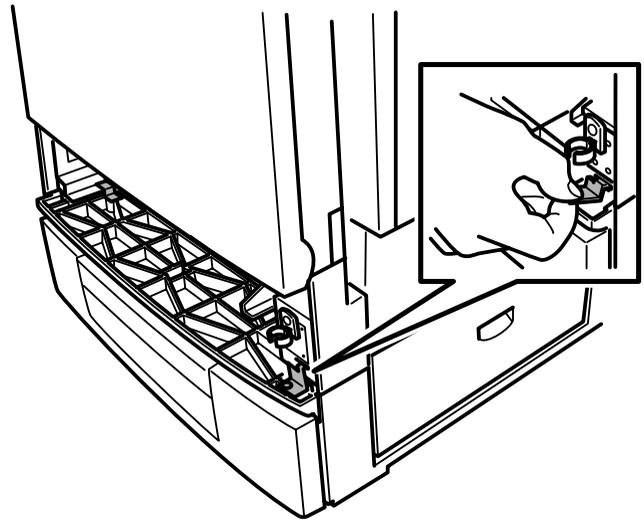
- 10 Slowly lower the printer onto the lower feeder unit, lining up the four holes in the bottom of the printer with the corresponding pins in the lower feeder unit.



- 11 Place bracket L on the left side of the printer frame and secure it tightly with the thumb-screw.

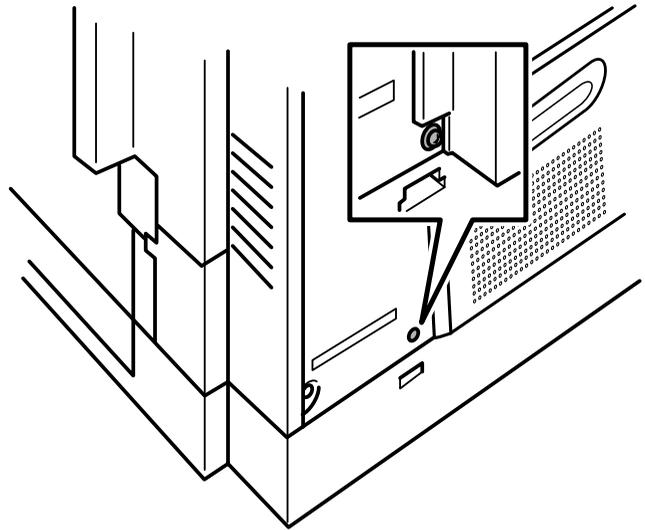


- 12 Hold bracket R on a slant to insert it from the front end into the bracket R slot on the right side of the printer frame, then hold bracket R level and secure it tightly with the thumbscrew.

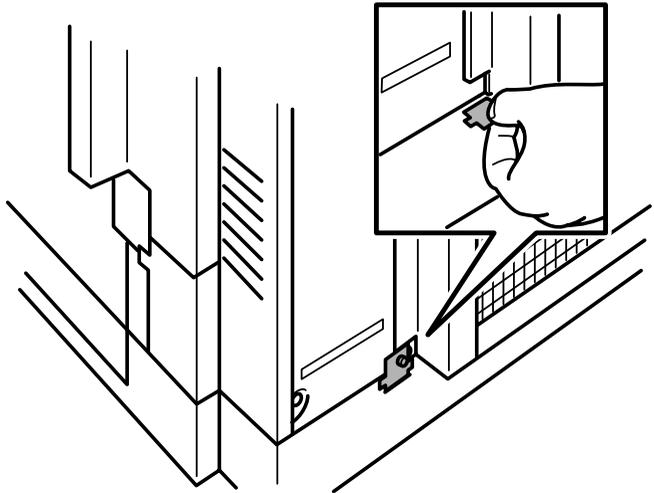


- 13 Unscrew the thumb-screw from the rear of the printer.

 Retain this screw for use in step 15.



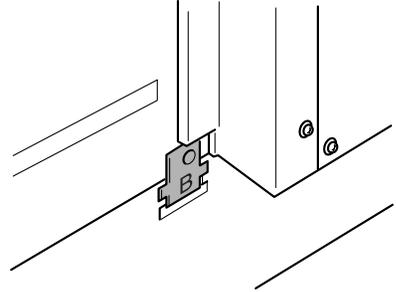
- 14 Hold bracket B on a slant and insert the front end into the bracket B slot.



- 15 Lift up bracket B and secure it tightly with the thumbscrew.

Make sure the bracket matches the position shown in the illustration.

- 16 Slide the upper media tray back into the printer.



Installing a Duplex Unit

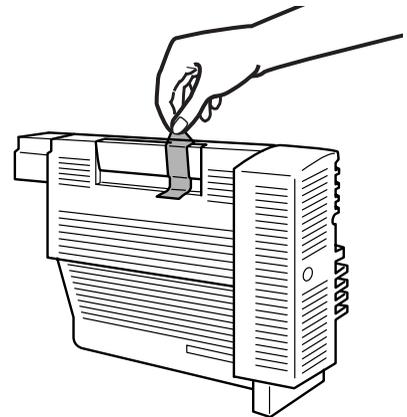
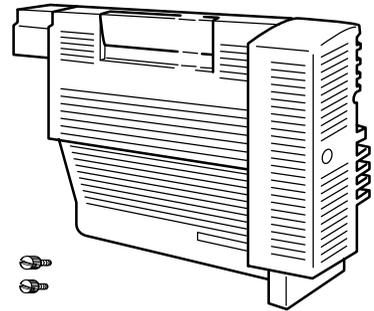
Read this section if you purchased a duplex unit for your magicolor 2200 DeskLaser.

Kit Contents

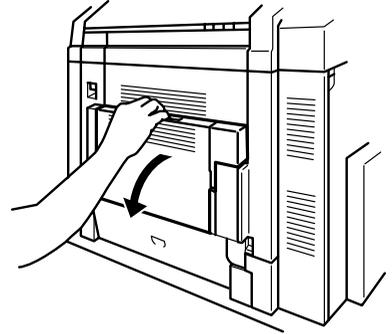
- Duplex unit
- 2 thumbscrews

Installation

- 1 Remove the duplex unit from its shipping box.
- 2 Remove the tape from the unit.

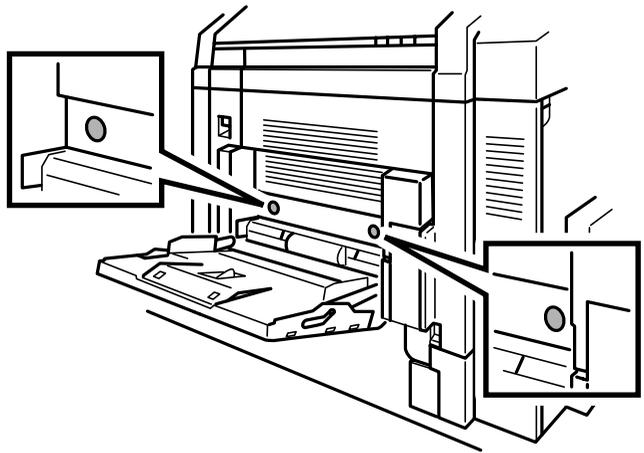


- 3 Open the multipurpose tray.

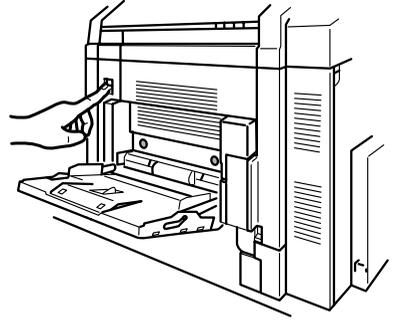


- 4 Remove the two thumb-screws from the right side cover.

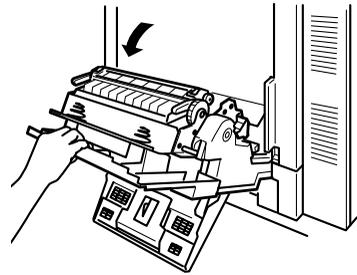
 *Retain these screws in case you need to remove the duplex unit in the future.*



- 5 Press the right-side cover release button.

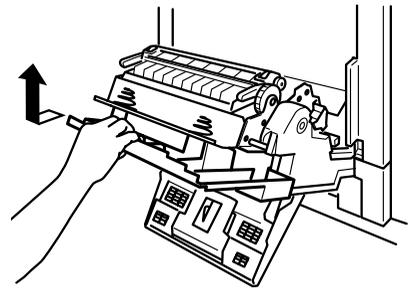


- 6 Open the right-side cover.



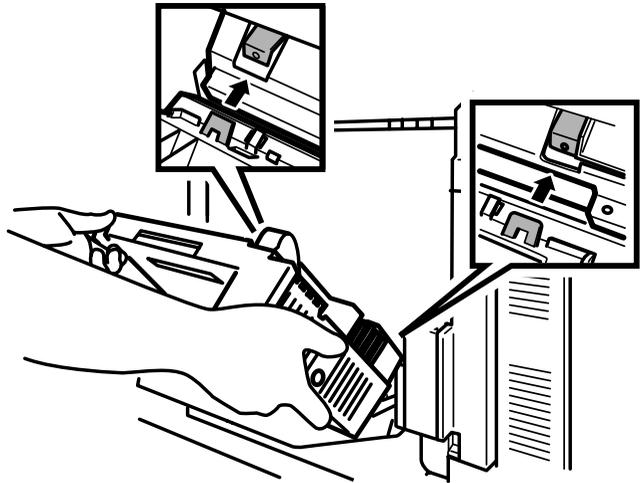
- 7 Pull the right-side cover toward you, lift it, and unhook it from its frame.

- 8 With the multipurpose tray still open, close the right-side cover.

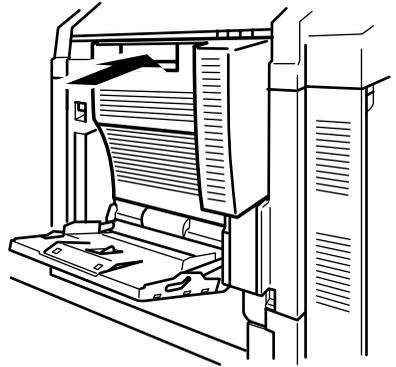


- 9 Insert the bottom of the duplex unit at a shallow angle into the right-side cover.

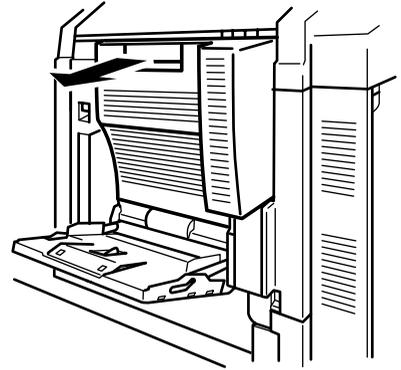
To do this, place the two tabs at the bottom into the holes on the right-side cover.



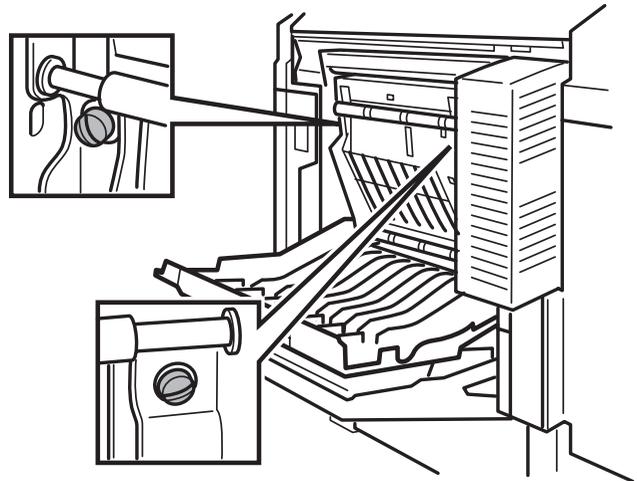
- 10 Press the top of the duplex unit in.



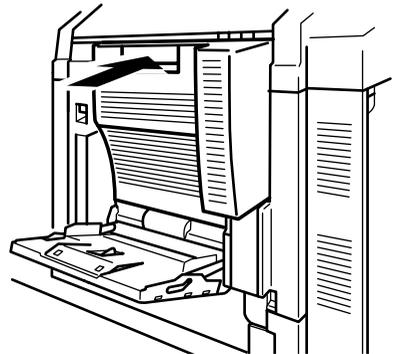
- 11 Open the duplex unit paper path cover.



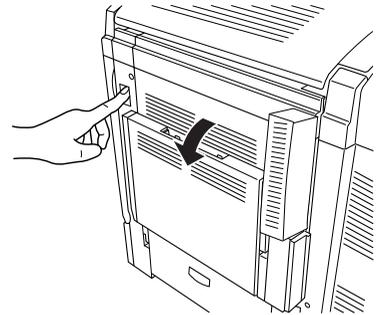
- 12 Secure the duplex unit tightly with the two thumbscrews supplied in the kit.



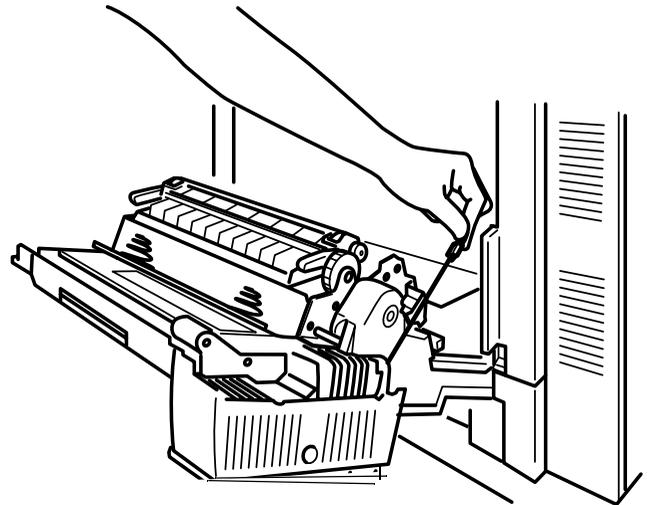
- 13 Close the duplex paper path cover and multipurpose tray.



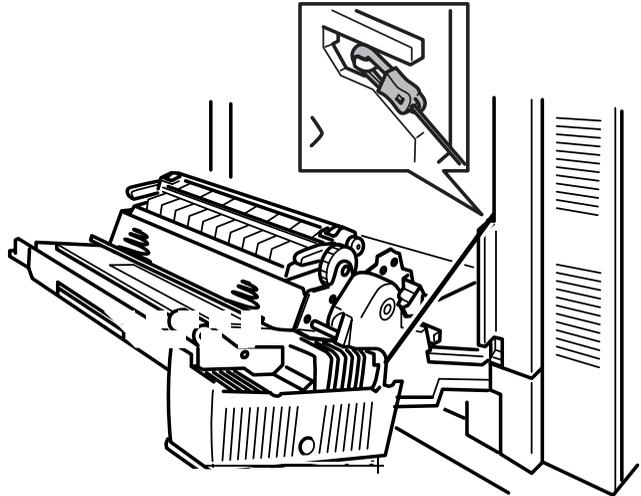
14 Open the right-side cover.



15 Extend the spring wire for the duplex unit about 1 foot (30.5 cm).



- 16 Attach the end of the spring wire to the hook on the printer unit.
- 17 Close the right-side cover.

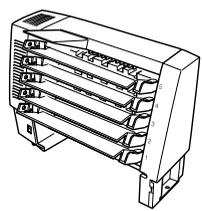
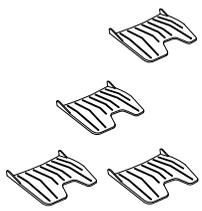
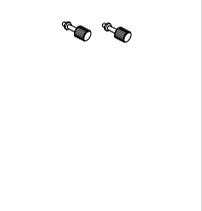
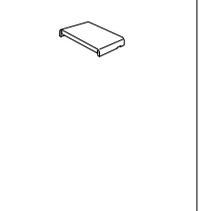
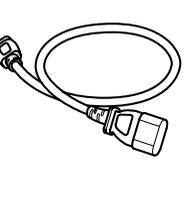


Installing an Optional 5-bin Mailbox

Read this section if you purchased a 5-bin mailbox for your magicolor 2200 DeskLaser.

 *You do not need to install a lower feeder unit on the printer before a 5-bin mailbox can be installed.*

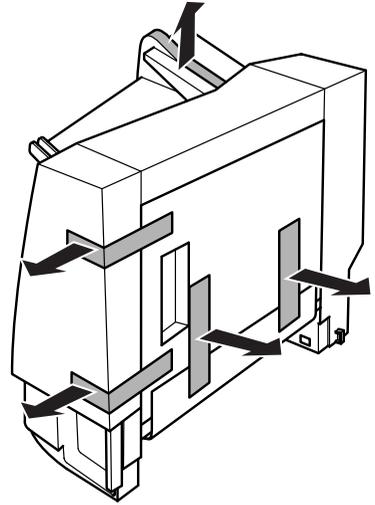
Kit Contents

Mailbox unit	5 bins	2 thumbscrews	Accessory screen cover	Power cord
				

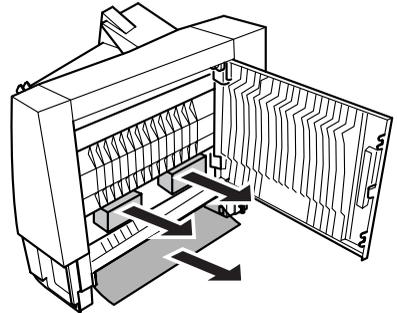
Installation

- 1 Remove the mailbox unit from its shipping box.

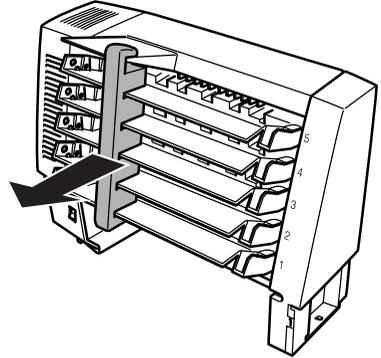
- 2 Remove any tape and packing material.



- 3 Open the mailbox unit cover and remove any packing material from the rear of the mailbox unit.
- 4 Close the mailbox unit cover.

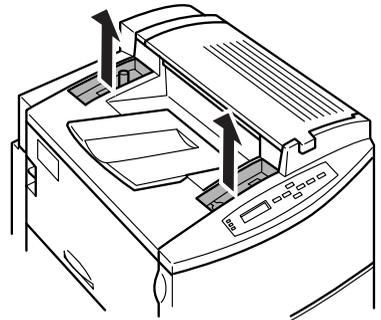


- 5 Remove any packing material from the front of the mailbox unit.



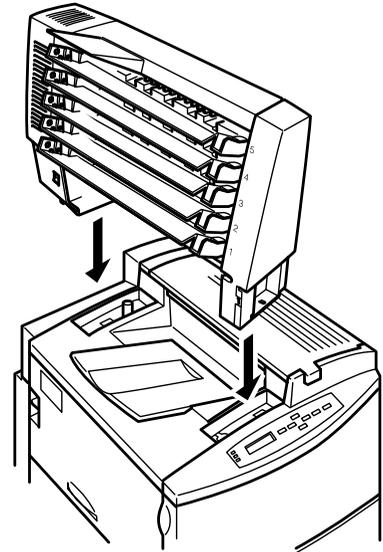
- 6 Remove the two screen covers from the top of the printer.
Pry the covers off with your fingers. Retain these covers in case you ever want to remove the 5-bin mailbox.

- 7 Locate the two holes, the pin, and the positioning guide for the mailbox.

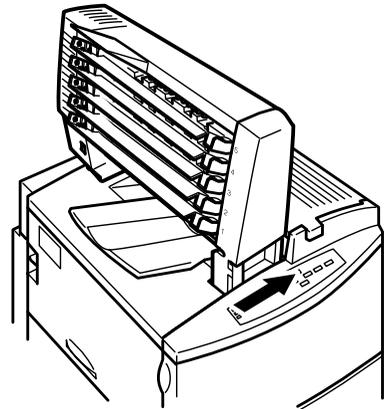


- 8 Slowly lower the mailbox unit so that the two pins at the bottom fit into the two holes in the printer and the pin on the printer fits into the hole at the bottom of the mailbox.

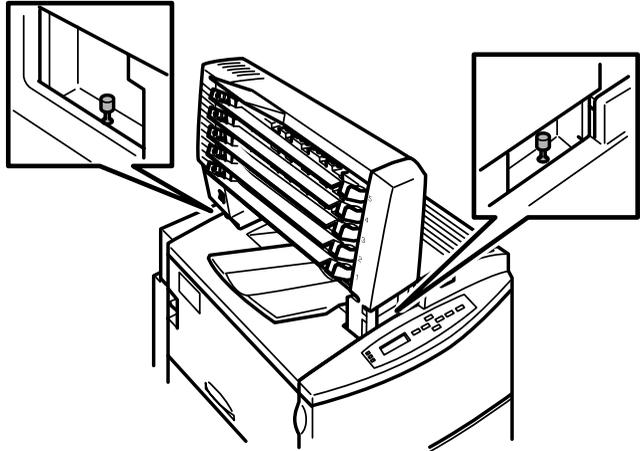
 *The mailbox bins will face the left side of the printer.*



- 9 Push the mailbox toward the right-hand side of the printer until it stops.

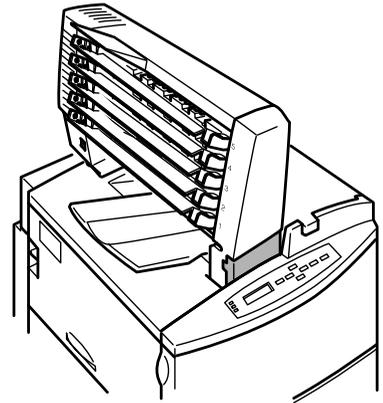


- 10 Secure the mailbox tightly with the two thumbscrews supplied in the kit.



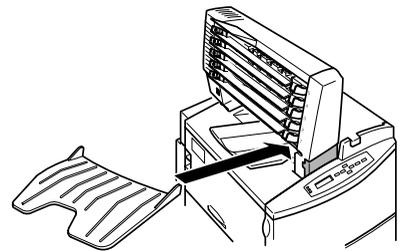
- 11 Place the slot on the right side of the accessory screen cover from the kit onto the tab on the mailbox then press on the left side of the accessory screen cover so the tab on that side fits into the slot on the mailbox.

- 12 Remove the five plastic bins from their packaging.

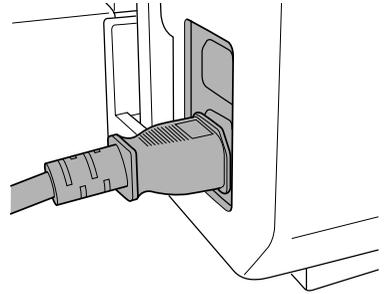


- 13 Hold a bin and insert the right side into the bottom level of the mailbox unit, then insert the left side.

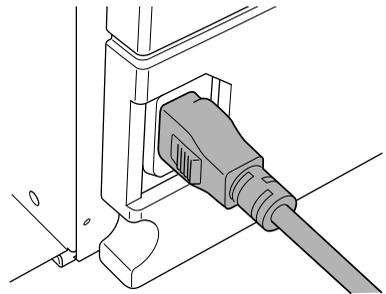
- 14 Install the other four bins.



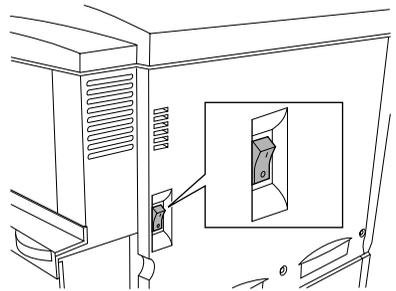
- 15 Plug the mailbox power cord from the kit into the mailbox unit (lower connection).



- 16 Plug the other end of the power cord into the printer.



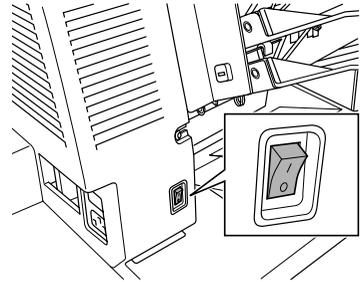
- 17 Make sure the printer is turned off.



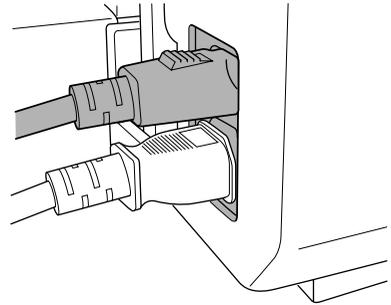
⚠ Attention

Always turn off the printer *before* turning off the mailbox.

18 Make sure the 5-bin mailbox is turned off.

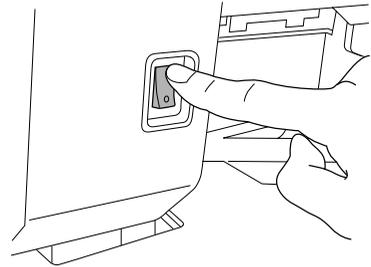


19 Plug the printer power cord into the mailbox unit and into the dedicated, grounded, surge-protected electrical outlet.



20 Turn the mailbox unit on.

21 Turn the printer on.



BuzzBox

BuzzBox is a printer accessory that warns you with a buzzer and/or a blinking light any time the printer goes off line. This means you're alerted to print job interruptions, such as empty media trays or other consumable issues.

What's in the Kit?

The BuzzBox kit contains the following items:

- BuzzBox
- Interface box
- RJ-11 cable
- Power adapter
- Adhesive-backed clips

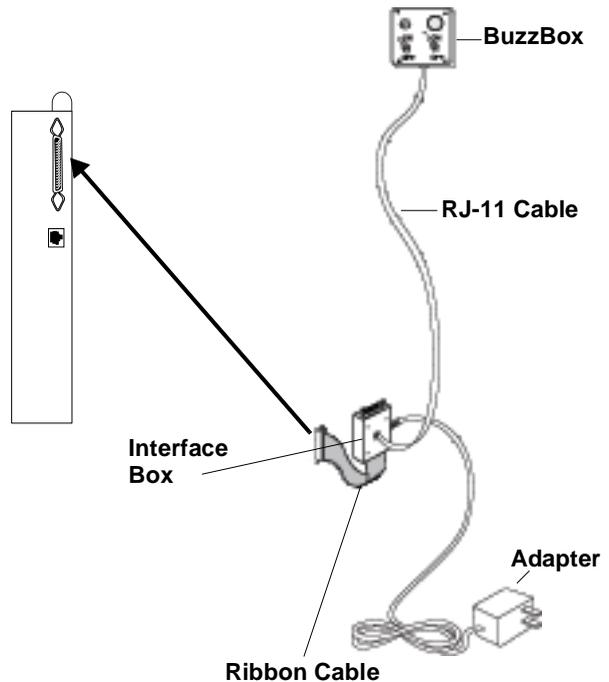
Installing BuzzBox

- 1 If you have a cable attached to the printer's parallel port, unplug it from the printer.
- 2 Attach one end of the parallel cable on the interface box to the printer's parallel port.



The BuzzBox's ribbon cable is designed to be directly attached to the printer's parallel port, not to an adapter or an additional cable.

- 3 Use the included RJ-11 cable to connect BuzzBox to the interface box.
- 4 Choose a good location on the printer to mount the interface box. Make sure that the unit does not
 - interfere with paper exiting the printer.
 - cover any vents, doors, connectors, or labels.
 - cause the ribbon cable to stretch or twist.



- 5 Use the adhesive-backed clips provided to mount the BuzzBox where the printer operator can see and/or hear it.

A 14-foot (4.2 m) cable is provided, but you can use up to a 500-foot cable (RJ-11 4-pin or 6-pin).

- 6 Connect the interface box to an electrical outlet.

A 110/220-volt adaptor is provided in the US, and a universal power supply is provided outside the US.

- 7 If you unplugged a parallel cable from the printer in step 1, attach the cable to the parallel port on the interface box.

- 8 To test the BuzzBox, make sure its switches are on, then press the printer's Online key to take the printer off line.



You can use the BuzzBox switches to enable or disable the buzzer, the light, or both.

When the printer goes off line, the light flashes and the buzzer sounds until the printer is placed back on line or until the light and buzzer switches are turned off.

Using BuzzBox

- When the BuzzBox lights or buzzes, check the printer message window to find out what has interrupted printing. See “Status and Error Messages” on page 122 for a list of printer messages and how to respond to them.
- Remember that pressing the Online key to enter the printer configuration menu triggers the BuzzBox alarm.

Antistatic Protection

Attention

It's very important to protect the printer controller board and any associated daughterboard or module from electrostatic damage while performing any task involving the controller board.

If an antistatic wrist strap is provided in your printer option kit, attach one end of it to your wrist and the other end to any convenient electrical ground (for example, the bare metal chassis of equipment, as on the back of a computer, that is plugged in but turned off). Never attach the wrist strap to any piece of equipment with an electrical current present. Turn off all power switches first. Plastic, rubber, wood, painted metal surfaces, and telephones are not acceptable grounding points. The printer isn't an acceptable grounding point either because it must be unplugged before you perform this task. If you don't have an antistatic wrist strap, discharge your body's static electric charge by touching a grounded surface before you handle any printer boards or components and before removing the controller board. Also avoid walking around after grounding yourself.

Dual In-Line Memory Module

A Dual in-line memory module (or DIMM) is a compact circuit board with surface-mount memory chips. Your magicolor 2200 DeskLaser printer comes with 32 MB of memory.

However, you can upgrade to a maximum of 96 MB of RAM through the installation of an additional DIMM. Additional memory must be an approved 64 MB, PC-100 Compliant SDRAM DIMM. To see a listing of approved memory vendors and part numbers, visit our website at www.minolta-qms.com.

Additional memory increases the printer's buffer (area where data sent from the computer is stored while waiting to be printed).

Installation

Attention

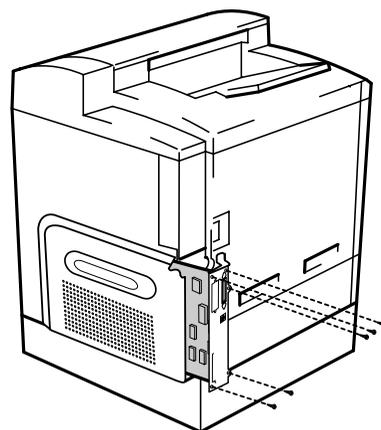
It's very important to protect the printer controller board and the DIMM from electrostatic damage. Before performing this procedure, review the antistatic caution on page 151. Always handle circuit boards by the edges only.

- 1 Ensure that the printer is turned off and the power cord and all interface cables are disconnected.

- 2 Remove the printer's controller board.

Loosen five screws and, using the tab on the top of the connector panel, pull the controller board from the printer.

- 3 Position the controller board on a flat surface.

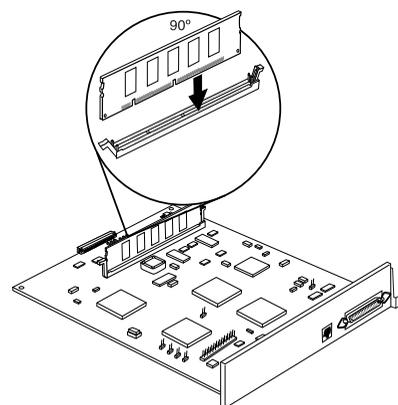


- 4 Insert the new DIMM straight down into the DIMM connector until the latches snap into the locked position.

Observe the keyed side of the DIMM to align it with the connector. When seated, the DIMM stands upright, firmly in place. If you cannot snap the DIMM into place, do not force it. Reposition it, making sure that the bottom of the DIMM is seated completely in the connector.



If you need to remove the DIMM, using both thumbs, pull the latches (one on each side of the DIMM connector) outward. Lift the DIMM straight out of the DIMM connector.



- 5 Reinstall the controller board into the printer.

Gently slide the controller board into the printer until it is fully seated, and then secure the board using the five screws removed in step 2.

Media Trays

The printer comes with a 500-sheet media tray (the upper tray—tray 2). The lower feeder unit has another 500-sheet optional media tray (the optional tray—tray 5) that provides two main benefits:

- Expanded flexibility to switch media size, color, and type without having to unload and load media.
- Increased media-feed capacity

Keep replacement trays close by, so you can easily change media by slipping one tray out and another in.

Media trays accommodate only letter/A4/legal media.

Crown Conversion Kit

The magicolor 2200 DeskLaser to magicolor 2200 Crown conversion kit allows you to upgrade your printer to take advantage of the features that are available on the magicolor 2200 Crown printer. See the documentation included with the kit for installation instructions.

Printer Stand/Cabinet

A variety of printer stands and cabinets are available for your printer. Follow the assembly instructions included with this accessory.



CrownView

7

CrownView

MINOLTA-QMS CrownView is a printer-based application using your printer's IP connection to your network and the World Wide Web portion of the Internet as a framework for the magicolor 2200 DeskLaser. This feature allows you to monitor printer consumables as well as access information that is normally available only by printing a status page.

Inside your new MINOLTA-QMS printer resides an HTTP (Hyper-Text Transfer Protocol) based web page that can be accessed from the most common web browser software, such as Netscape Navigator and Microsoft Internet Explorer. This web page gives you access to the most frequently accessed printer configurations and gives you instant access to printer status. Anyone on your company intranet can access the MINOLTA-QMS printer through their web browser software.



The sample windows and dialog boxes shown in this chapter are as they appear in Netscape Navigator and Internet Explorer, and coincide with the step-by-step instructions provided.

The following sections provide you with details on

- Setting up and using the web page
- The different types of pages in the printer

Setting up the Printer Web Page

Setting up the printer web page to run on your intranet involves two basic steps:

- Determining the name and address of your printer
- Setting up the “no proxy” preferences in your browser software

Determining the Printer Name

The printer web page can be accessed only through the assigned name of the printer or the IP address. It is more convenient for you to use a name than the address. The name for the printer comes from the IP host table on the computer system and is usually assigned by the system administrator, for example, magicolor 2200 DeskLaser.

Setting Up Your Browser Software

Since your printer will reside on your intranet and will not be accessible beyond the firewall of your network, you must set up the proper “preferences” in your browser software. Your printer name or IP address must be added to the “no proxy” list in the preferences dialog box of the browser.



You need to do this procedure only once.

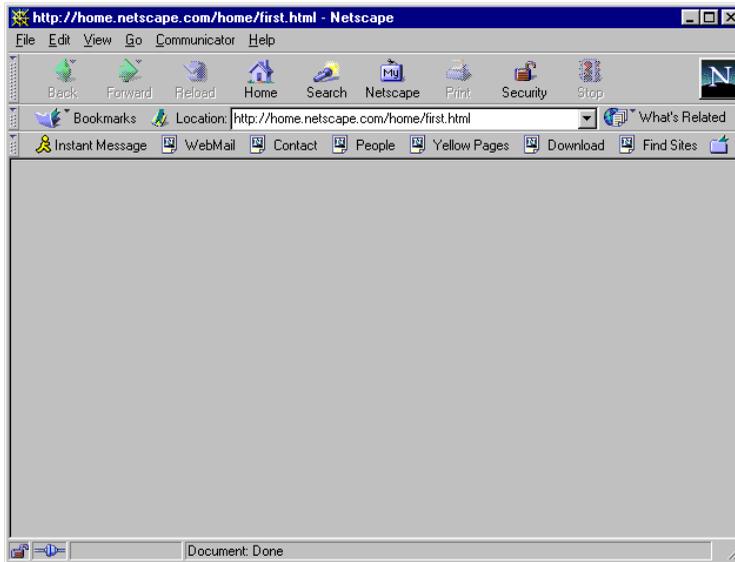
The sample screens in this chapter may be different from yours depending on your version and platform in use.



Japanese characters may not appear correctly if you are using an early release of Netscape Navigator or Microsoft Internet Explorer. For Netscape Navigator users, we recommend using Netscape Navigator version 6 or greater; for Microsoft Internet Explorer users, we recommend using Internet Explorer version 5 and greater.

For Netscape

- 1 Start your web browser.

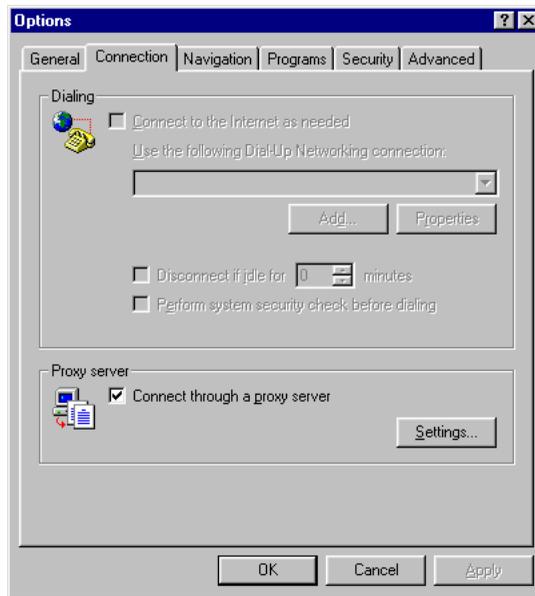


- 2 Access the Options menu and choose Network Preferences.
- 3 Select the Proxies tab in the dialog box.
- 4 Select the Manual Proxy Configuration radio button and press the View... button.
- 5 In the No Proxy For: text box, type a comma after the last entry, and then type the printer name or the IP address of your magicolor 2200 DeskLaser.
- 6 Choose OK.
- 7 Enter the printer name or IP address in the Go to: URL address box to access the printer home page.

For Internet Explorer

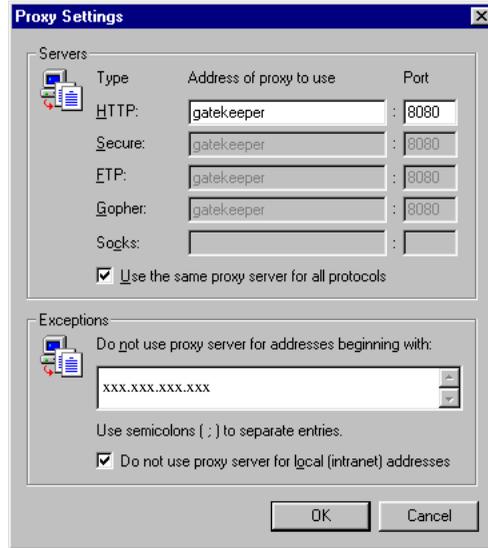
- 1 Start your web browser.
- 2 Access the View menu and choose Options.

- 3 Select the Connection tab on the dialog box.

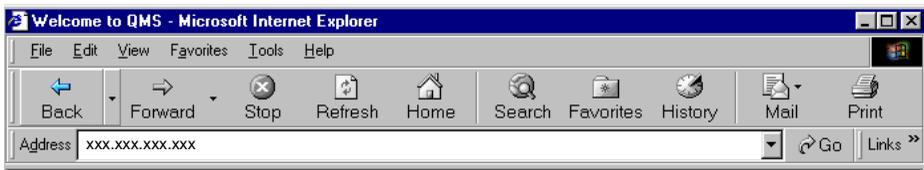


- 4 Click the Settings button to display the Proxy Settings dialog box.

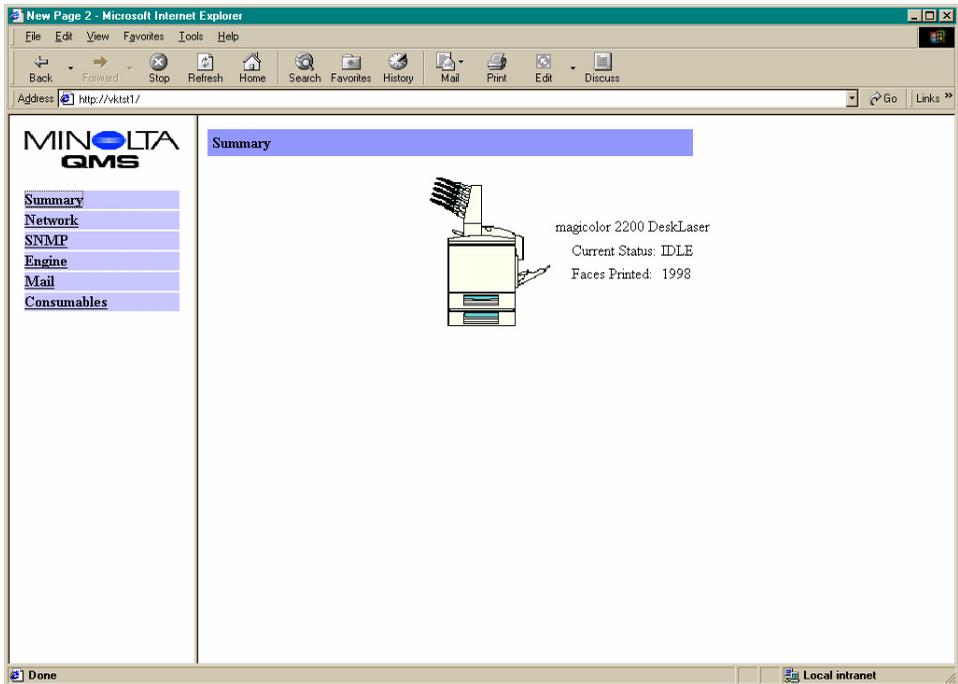
- 5 In the Exceptions text box, type a comma after the last entry and then type the IP address of your magicolor 2200 DeskLaser.



- 6 Click OK.
- 7 Now you should be able to enter the IP address in the URL address box to access the printer home page.



Printer Summary Page

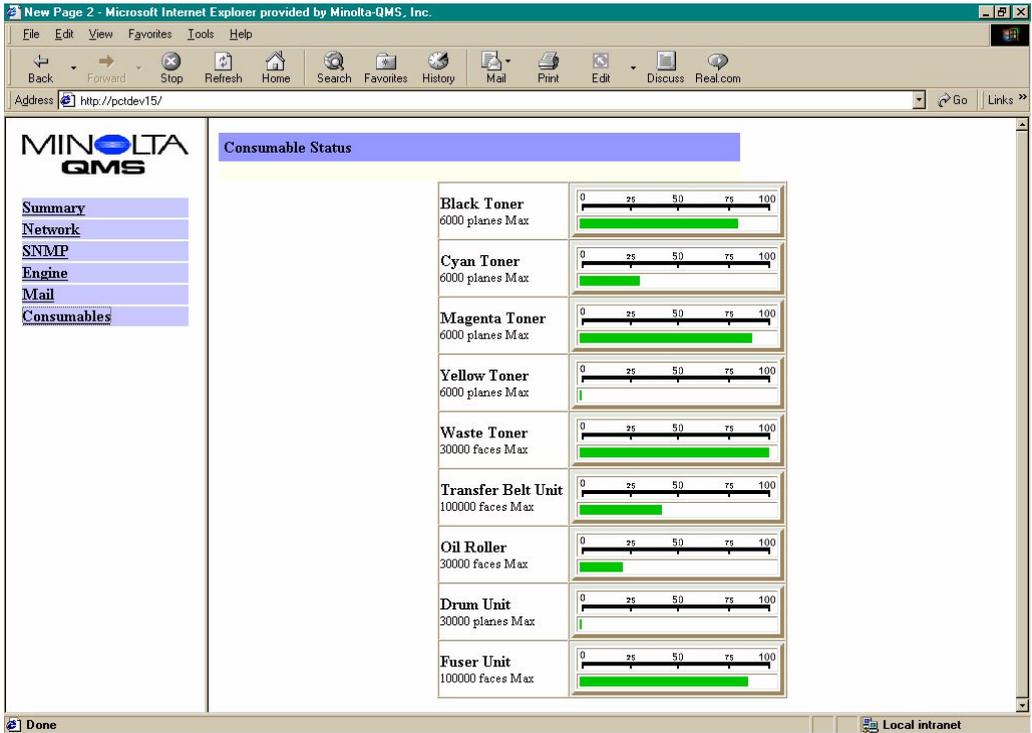


The Summary Page is the starting point for all access to the printer web pages. This page displays the printer name, the current status of the printer, and the number of faces printed. You can view this information to see the status of the printer, but you can change it only by accessing the printer's configuration menu through the printer control panel.

This page provides hotlinks to several groups of printer configuration settings. From the Summary page you can access the following pages.

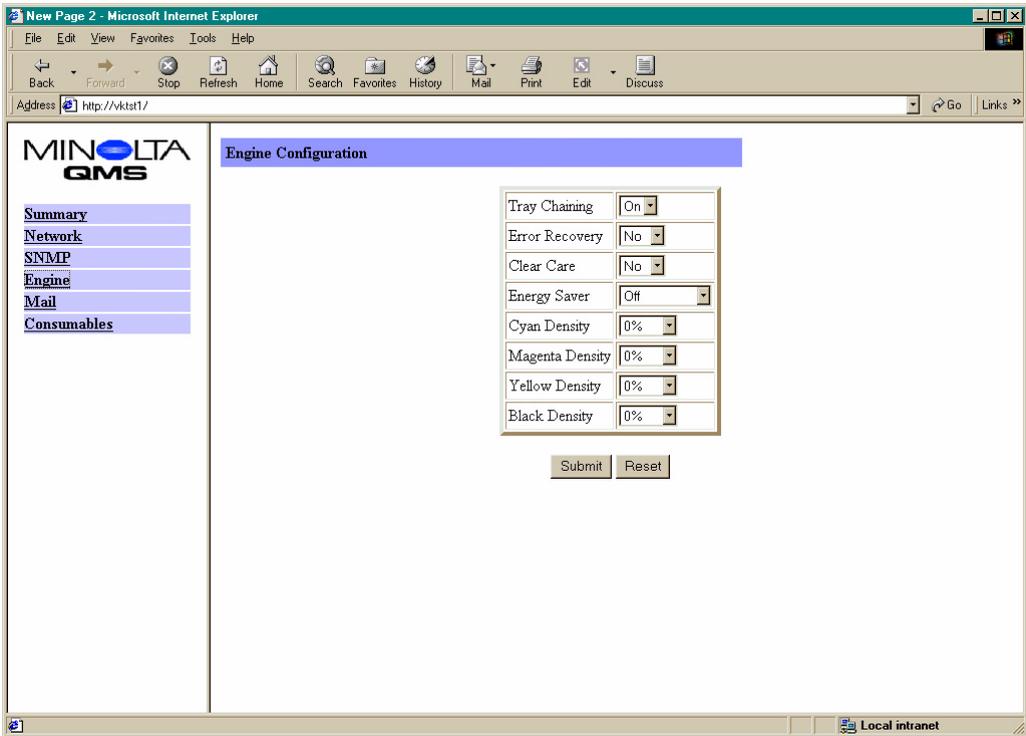
Consumable Status Page

This page provides the status on the consumables installed in the printer.



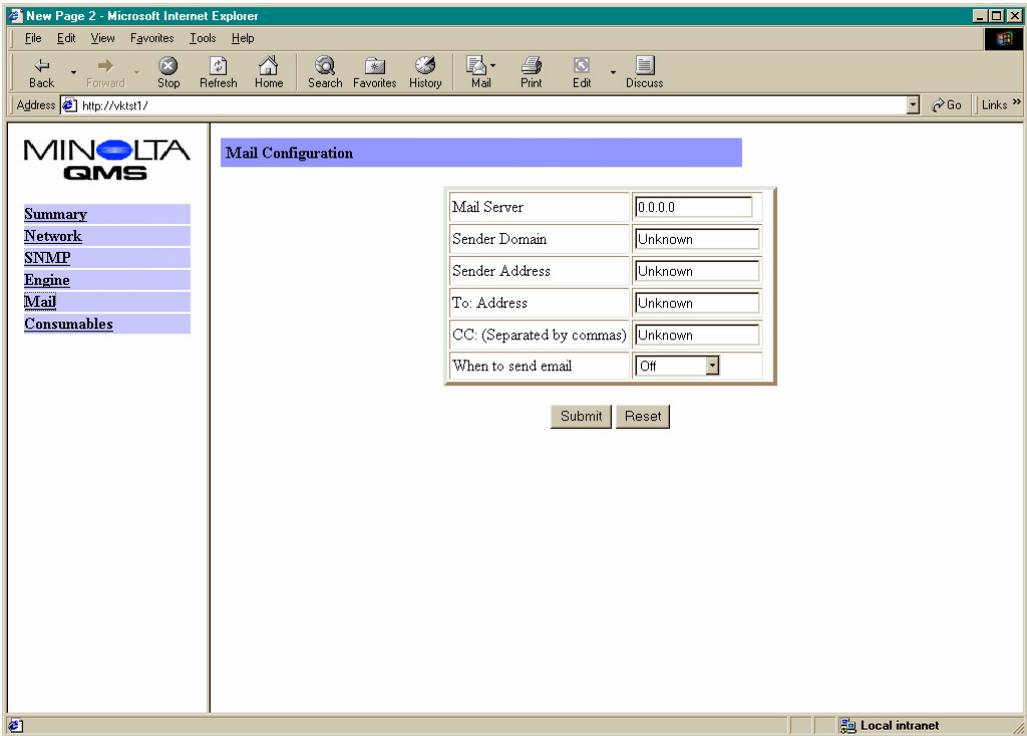
Engine Page

This page provides you with access to tray chaining, error recovery, clear care, energy saver, and toner density settings. See the “Configuration Menu Overview,” of the *minicolor 2200 DeskLaser Installation Guide* for setting choices and default values.



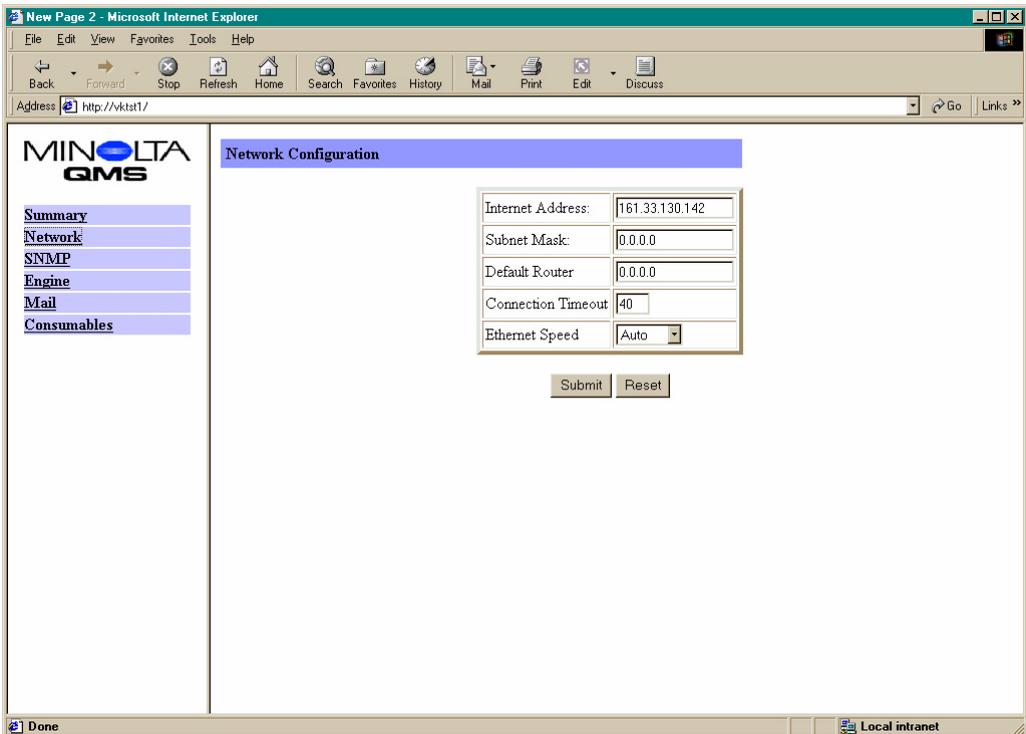
Mail Page

This page allows you to identify the email address where printer status messages will automatically be sent. See the “Configuration Menu Overview,” of the *magicolor 2200 DeskLaser Installation Guide* for setting choices and default values.



Network Page

This page displays a screen that shows the Ethernet communications settings of the printer. See the “Configuration Menu Overview,” of the *magicolor 2200 DeskLaser Installation Guide* for setting choices and default values.



SNMP Page

This page provides SNMP information and allows you to configure the settings. See the “Configuration Menu Overview,” of the *magicolor 2200 DeskLaser Installation Guide* for setting choices and default values.

The screenshot shows a web browser window titled "New Page 2 - Microsoft Internet Explorer" with the address bar set to "http://vktst1/". The page content is divided into two main sections. On the left is a navigation menu for the "MINOLTA QMS" system, with options: Summary, Network, **SNMP**, Engine, Mail, and Consumables. The "SNMP" option is highlighted. On the right is the "SNMP Configuration" form, which contains the following fields and values:

NMS1 Address	0.0.0.0
NMS1 Community	public
NMS1 Access	Write
NMS2 Address	0.0.0.0
NMS2 Community	public
NMS2 Access	Read
NMS3 Address	0.0.0.0
NMS3 Community	public
NMS3 Access	Read
Name	Unknown
Contact	System Administratc
Location	Unknown

At the bottom of the form are "Submit" and "Reset" buttons. The browser's status bar at the bottom shows "Done" and "Local intranet".



Repacking the Printer

8

Storing the Printer

Keep the following in mind when storing the printer for an extended period:

- 1 Unplug the printer.
- 2 Remove the OPC drum, the fuser oil roller, and toner cartridges from the printer and return them to their original packaging. If the original packaging is not available, protect the toner cartridges from spilling toner, and protect the OPC drum cartridge from damage and light.

Relocating Your Printer

Occasionally, you may have to move your printer to a different location, either nearby or to a distant location. To avoid damage to your printer, we advise you to follow the next instructions very carefully.

- 1 Turn off the power to your printer.
- 2 If the printer has a lower feeder unit and/or a 5-bin mailbox, remove them.
- 3 If you are moving to a distant location, follow the instructions for repacking the printer.
- 4 Relocate the printer.

WARNING!

The printer weighs about 87.1 lb (39.5 kg) without accessories or consumables installed, and 133.7 lb (60.6 kg) with accessories and consumables installed. Always have two people to lift and move the printer to avoid back injury. Additional assistance may be required if lifting the printer above waist-level.

- 5 Unpack and set up the printer in its new location.
- 6 Reinstall the accessories you removed in step 2.

Refer to the *Service & Support Guide* or www.minolta-qms.com for additional information.

Repacking the Printer

If you need to relocate or ship your printer after it's been installed, follow the procedures in this chapter to prevent damage to the printer and to keep your warranty valid.



If you're returning just the printer for service, do not return the interface cables, power cable, documentation, media tray(s), or accessories.

Attention

MINOLTA-QMS cannot be held responsible for damage to your printer during shipment that results from the improper packaging of your printer. You must use the instructions given in this section before repacking the printer in its original shipping carton with the original packing materials. These supplies must be replaced prior to re-shipping the printer.

If you need replacement packaging, in the United States, call MINOLTA-QMS Spares at 1 (334) 633-4300 x2530 and request part number 2600674-901 for the repacking kit. Refer to the *Service & Support Guide* or www.minolta-qms.com for locations outside the United States. If you need to return the printer for service, be sure to write the RMA (Return Merchandise Authorization) number you received from your customer support representative clearly on the carton before shipping the printer.

What's Involved?

Repacking your printer for shipment involves the following steps. Each is described in more detail in the following sections.

- 1 Remove the cables.
- 2 Remove the fuser oil roller.
- 3 Remove the toner cartridges.
- 4 Remove the waste toner pack.
- 5 Remove the OPC drum.
- 6 Remove the transfer belt.
- 7 Remove the duplex unit (if attached).

- 8 Remove the 5-bin mailbox (if attached).
- 9 Remove the lower input feeder (if attached).
- 10 Repack the printer for shipment.

⚠ Attention

To avoid toner contamination during shipment, the printer should be repacked without the fuser oil roller, toner cartridges, waste toner pack, OPC drum cartridge, or transfer belt installed.

Remove the Cables

- 1 Turn off the printer.
- 2 Remove the power cable and all interface cables.

Remove the Fuser Oil Roller**WARNING!**

The fuser unit can become extremely hot and cause severe burns. Make sure the unit is cool before handling it.



- 1 Open the printer's top cover.
- 2 Rotate the two lock levers to release the fuser oil roller.
- 3 Remove the fuser oil roller.
- 4 Store the fuser oil roller in its original shipping bag.
- 5 Close the printer's top cover.

Remove the Toner Cartridges

- 1 Open the printer's front cover.
- 2 Remove the four toner cartridges and store them in their original packaging.

Remove the Waste Toner Pack

- 1 With the printer's front cover open, remove the waste toner pack from the printer.
- 2 Use the three plugs on the side of the waste toner pack to seal the opening.
- 3 Store it in its original packaging.

Remove OPC Drum Cartridge

Remove the OPC drum cartridge and store it in its original packaging.

Remove Transfer Belt

- 1 Remove the transfer belt and store it in a plastic bag in a box to avoid toner spillage
- 2 Close the printer's front cover.

Remove the Duplex Unit



If you don't have a duplex unit installed, skip to the next section.

- 1 Open the duplex cover and unhook the spring wire.
- 2 Loosen the two thumbscrews until the duplexer moves freely away from the right side of the printer.
- 3 Lift duplex unit up and away from the printer.
- 4 Install the original right-side cover that came with the printer.
- 5 Repack the duplex unit in its original shipping carton for storage or shipment.



If you're returning the printer for service, you don't need to return the duplex unit, unless the problem is with the duplex unit.

Remove the 5-bin Mailbox



If you don't have a 5-bin mailbox installed, skip to the next section.

- 1 Remove the power cable.
- 2 Remove the side plates and loosen the thumbscrews.
- 3 Lift 5-bin mailbox up and away from the printer.

- 4 Replace the original screen covers on the top of the printer.
- 5 Repack the 5-bin mailbox in its original shipping carton for storage or shipment.



If you're returning the printer for service, you don't need to return the 5-bin mailbox, unless the problem is with the 5-bin mailbox.

Remove the Lower Feeder Unit



If you don't have a lower feeder unit installed, skip to the next section.

- 1 Remove the rear bracket securing the lower feeder unit to the printer.
- 2 Remove the upper media tray.
- 3 Remove the brackets on the right and left in front that are securing the optional tray to the printer.
- 4 Replace the upper media tray.
- 5 With the help of another person, lift the printer by its carrying grips and carrying bar, and place the printer on a table.

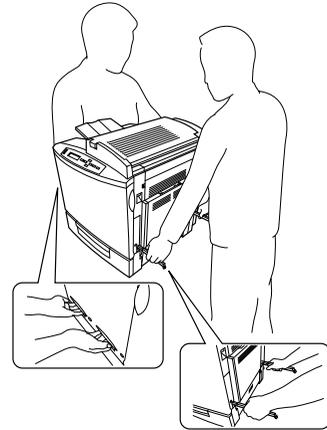
WARNING!

The printer weighs about 87.1 lb (39.5 kg) without accessories or consumables installed, and 133.7 lb (60.6 kg) with accessories and consumables installed. Always have two people to lift and move the printer to avoid back injury. Additional assistance may be required if lifting the printer above waist-level.

- 6 Repack the lower feeder unit in its original shipping carton for storage or shipment.



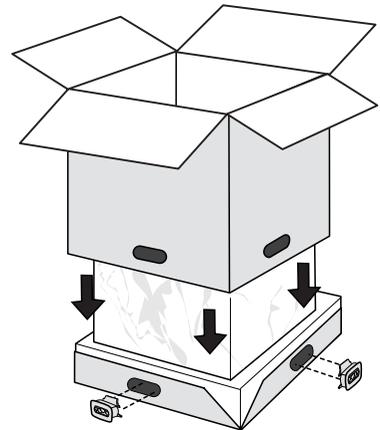
If you're returning the printer for service, you don't need to return the lower feeder unit, unless the problem is with the lower feeder unit.



Repack the Printer

If you need replacement packaging, in the United States, call MINOLTA-QMS Spares at 1 (334) 633-4300 x2530 and request part number 2600674-901 for the repacking kit. Refer to the *Service & Support Guide* or www.minolta-qms.com for locations outside the United States.

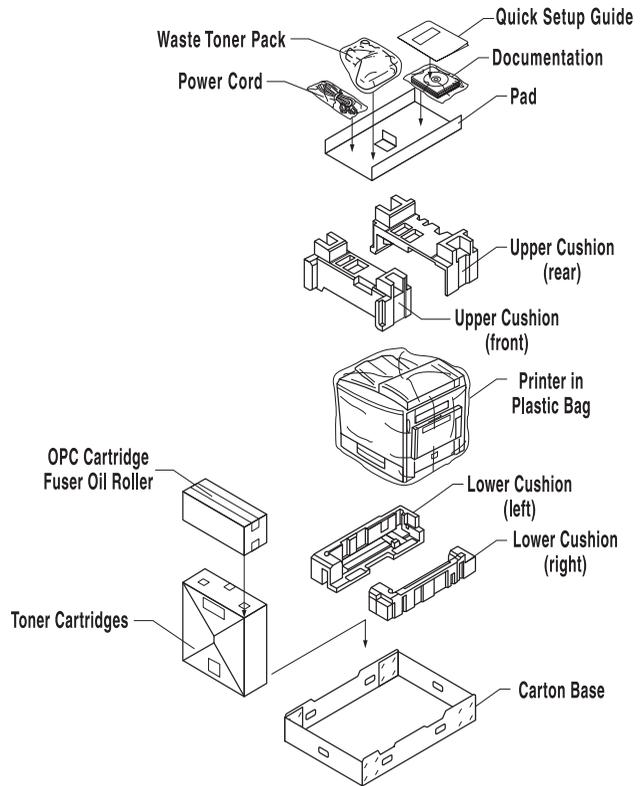
- 1 Place the lower cushions into the shipping carton's base.
- 2 Put the printer's plastic bag into the shipping carton's base.
- 3 With another person's help, put the printer into its plastic bag and tape the bag closed.
- 4 Replace the outer shipping carton over the printer and the base, and secure the shipping carton using the plastic interlocks that came with the original carton.



- 5 Pack the printer for shipment as shown.
- 6 If you're also shipping the power cord and any manuals with the printer, place them in the shipping carton.

 *Don't ship these items if you're returning the printer for service.*

- 7 Securely tape the top flaps of the shipping carton closed.



Technical Specifications

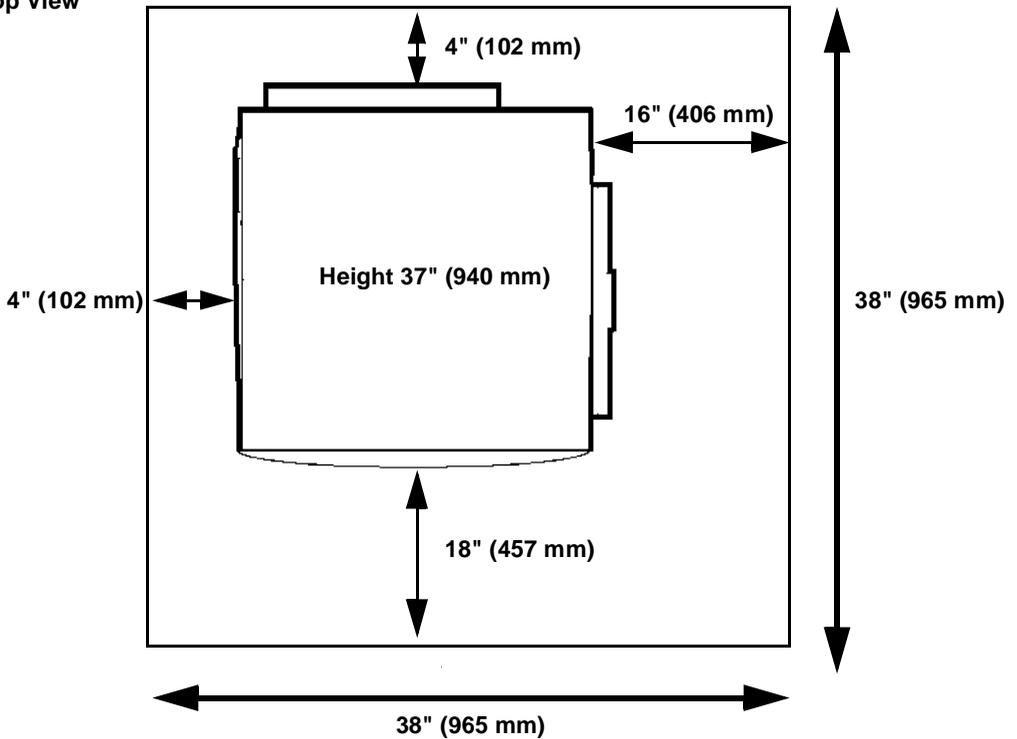
A

Requirements

Space Requirements

The illustration below shows the amount of space required for operating the printer, replacing supplies, and removing media jams.

Top View



If you have added accessories, the required height will increase by

Lower feeder unit	4.6" (117 mm)
Duplex unit	0" (0 mm)
5-bin mailbox	15.3" (389 mm)

Power Requirements

Power	Japan	100 VAC 50–60 Hz 12 amps
	North America	120 VAC 50–60 Hz 8 amps
	Europe	220–240 VAC 50–60 Hz 6 amps
	Latin America	120 VAC 50–60 Hz 8 amps 220–240 VAC 50–60 Hz 6 amps
Voltage Fluctuation Rate	Japan	100 VAC $\pm 10\%$
	North America	120 VAC $\pm 10\%$
	Europe	220–240 VAC $\pm 10\%$
	Latin America	120 VAC $\pm 10\%$ 220–240 VAC $\pm 10\%$
Frequency Variation Rate	Within 50–60 ± 3 Hz	

Location Requirements

- On a hard, flat, level (1.0° or less slant at any point around the machine) surface capable of supporting the printer, accessories, consumables, and media. Weights are shown below.

Component	Weight
Printer	87.1 lbs (39.5 kg)
Consumables (such as toner, OPC drum)	11 lbs (5.0 kg) (total)
Media	5.2 lbs (1.9 kg) per ream
Lower feeder unit (optional)	14.8 lbs (6.7 kg)
Duplex unit (optional)	5.3 lbs (2.4 kg)
5-bin mailbox (optional)	15.5 lbs (7.0 kg)

 A surface can be tested for levelness with a standard round pencil. If the pencil rolls, the surface is not level. Clear the area of any obstruction or items such as cables that might prevent the printer from sitting directly on the flat, level surface.

- In an area with an ambient temperature range of 50°–95° F (10°–35° C) and relative humidity range of 15%–85% (noncondensating).
- Away from cooling and heating sources, extreme temperature or humidity changes, direct sunlight, excessive dust, corrosive chemicals or vapors (such as ammonia),

water pipes, refrigerators, and any strong electromagnetic field (such as that created by an air conditioner), open flames, or items that can easily burn, or items that produce excessive vibration.

If the printer is located in a cold room that is rapidly heated, or if the printer is moved from a cold place to a warm, humid place, condensation may occur within the printer, degrading print quality. If this occurs, allow the printer to adapt to the environment for about one hour before use.

- Away from water.

If using a humidifier or water vaporizer in the room with the printer, use only purified or distilled water. Impurities in the water may be released into the air, where they can accumulate inside the printer and cause degraded printer output.

- At an altitude of 0–8202' (0–2500 m).
- Near your computer—6.5' (2 m) or less for an IEEE 1284 bidirectional parallel connection; cables for other connections may be longer.
- Close to an easily accessible grounded power supply on an exclusively dedicated power outlet.

WARNING!

Do not connect the groundwire to gas or water pipes or grounding for telephones.

- Not connected to the same electrical outlet as noise-generating equipment. If the printer is connected to the same circuit used by other high-current machines, such as a copier or air conditioner, or to an electrically noisy machine, low voltage or noise may cause overheating, computing errors resulting in data loss, and improper performance.
- In a well-ventilated area, but away from wind.
- With enough space to allow adequate ventilation and easy servicing.

⚠ Attention

Obstructing the ventilation grilles could present a fire hazard.

Computer Requirements

Printer performance depends upon the type of computer to which you connect it. We recommend a Pentium-class computer with at least 16 MB of RAM (if you're using Windows Me/98/95) or 32 MB of RAM (if you're using Windows 2000/NT4).

ENERGY STAR Compliance

All models of the magicolor 2200 are compliant with US Environmental Protection Agency (EPA) ENERGY STAR regulations. After a specified period of inactivity, the printer changes to a low-power state (the engine remains on, but the fuser turns off). When a print job is received, the printer returns to normal power within a user-configurable time period.



Year 2000 (Y2K) Compliance

MINOLTA-QMS would like to reassure its customers by pointing out that the design of its products precludes the possibility of Year 2000 errors.

There are two instances when time and date information is provided by MINOLTA-QMS printers: when information about a print job is stored in the MINOLTA-QMS accounting file, and when a time stamp is printed on the header and/or trailer page. Date and time information that appears on the header and/or trailer page is passed to the MINOLTA-QMS printer by the host computer. Since this information is passed in real time, it is virtually impossible for there to be any confusion regarding the century date. The real-time clock used to apply the time stamp to the accounting files stores the year as four digits and is designed to correctly handle leap year calculations, including the Year 2000.



Engine and Controller Specifications

Engine

Engine	Minolta NC-L4001	
Duty cycle	Simplex letter/A4 pages per month	8,000 average prints and up to 35,000 maximum prints per month*



**The duty cycle will be affected by the media type, percent coverage, and the number of monochrome versus color pages.*

Print Speed—Simplex

The following table defines the maximum print speed in pages per minute (ppm).

Page size	Monochrome ppm	4-Color ppm
A4	20	5
Letter	20	5
Legal	20	4*
Transparency Film (A/A4)	3.8	2.4
Label (A/A4)	3.8	2.4
Thick (A/A4)	3.8	2.4



**When color printing on legal paper, only A4 length is guaranteed.*

Print Speed—Autoduplex

The following table defines the maximum print speed in pages per minute (ppm).

Page size	Monochrome ppm	4-Color ppm
A4	10	2.5
Letter	10	2.5
Legal	10	1.5

General

Printer type	Desktop, non-impact, 4-color printer
Print method	Scanner: Semiconductor laser with rotating mirror Recorder: Black writing electrophotographic Process: Cyan, magenta, yellow, and black dry toner image transfer to print media Fuser: Heated rollers
Resolution	Standard: 1200x600 dpi
Toner	Type: Microfine, dry, single component Packaging: User-replaceable cartridges
Warm-up time	Maximum: 110 volts: 150 seconds 220 volts: 160 seconds
Input sources	Standard: 500-sheet tray 150-sheet multipurpose tray Optional: 500-sheet lower input feeder
Output	Standard: 250-sheet tray on top of printer Optional: 5-bin mailbox

Controller

CPU	IDT RC32364 100 MHz
Standard interfaces	Ethernet —10BaseT/100BaseTX Parallel —Centronics/IEEE 1284 bidirectional
RAM	Type: PC-100 Compliant SDRAM DIMMs base system RAM: 32 MB Optional: 64 MB Total RAM: Upgradable to 96 MB (through 1 DIMM connector)
Optional RAM	64 MB DIMM
System software	Softloadable; stored in Flash ROM
Warning function convenience	Optional, BuzzBox (light/buzzer printer warning device); operates over a parallel connection

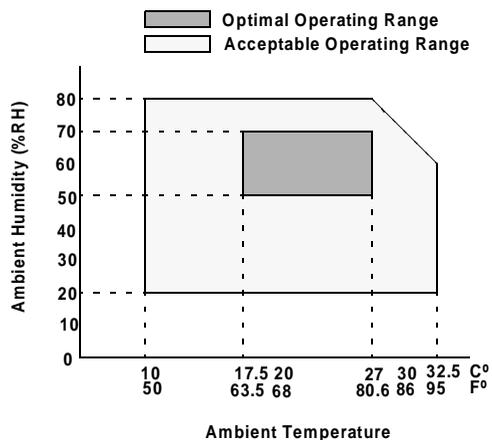
Electrical

Voltage and Power

Voltage and frequency	US: 120 volts $\pm 10\%$ at 50–60 Hz ± 3 Hz Japan: 100 volts $\pm 10\%$ at 50–60 Hz ± 2 Hz International: 220-240 volts $+10\%$ at 50–60 Hz ± 3 Hz	
Phase	Single	
Power consumption	Mode	Maximum
	Operation	100/120 volts—1000 watts 220 volts—1100 watts
	Standby Power saver	250 watts 45 watts
Compliance	ENERGY STAR compliant	

Environmental

Noise level	Printing: Less than 55 dB (A) Standby: Less than 41 dB (A)
Relative humidity	Operating: 15-85% RH (noncondensing) Transportation/Storage: 30–85% RH (noncondensing)
Temperature range	Operating: 50-95° F (10-35° C) Transportation/Storage: 32-95° F (0-35° C)
Altitude	Operating: 0-8202 ft (0-2500 m)
Inclination	Operating: 1° or less slant at any point around the machine



Physical

	Main Body	Main Body with Lower Input Feeder	Main Body with Duplex Unit and Lower Input Feeder
Dimensions	W: 18.2 in. (463 mm) H: 20.6 in. (511 mm) D: 21.3 in. (522 mm)	W: 18.2 in. (463 mm) H: 22.0 in. (560 mm) D: 21.3 in. (522 mm)	W: 18.2 in. (463 mm) H: 22.0 in. (560 mm) D: 21.3 in. (522 mm)
Weight (excluding consumables)	Unpacked: 87.1 lbs (39.5 kg)	Unpacked: Printer: 87.1 lbs (39.5 kg) Lower Input Feeder: 13.2 lbs (6.0 kg)	Unpacked: Printer: 87.1 lbs (39.5 kg) Lower Input Feeder: 13.2 lbs (6.0 kg) Duplex Unit: 3.7 lbs (1.7 kg)
Weight (including consumables)	Shipping: 117 lbs (53 kg)	Shipping*: Printer: 117 lbs (53 kg) Lower Input Feeder: 31 lbs (14 kg)	Shipping*: Printer: 117 lbs (53 kg) Lower Input Feeder: 14.8 lbs (6.7 kg) Duplex Unit: 5.3 lbs (2.4 kg)
Notes	* Shipped separately.		

Print Media

Delivery—Output Tray	Output: Face-down Tray Capacity: 500 sheets of 20 lb bond (75 g/m ²) paper
Delivery—Mailbox	Output: Face-down Mailbox Bin Capacity: Each bin holds approximately 50 sheets of 16–24 lb (60–90 g/m ²) bond letter/A4 paper only
Input sources	Upper input feeder (500-sheet tray): Paper, transparencies Optional lower input feeder (500-sheet tray): Paper, transparencies Multipurpose tray (150 sheet): Envelopes, labels, paper, thick stock, transparencies
Media sizes, types, and weights	See “Media Types” on page 35.
Notes	The maximum media weight supported for duplex printing is 28 lb bond (105 g/m ²).



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