
magicolor® 3100

User's Guide

1800658-001C

Thank You

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Registering the Printer

Mail—Fill out and send in the registration card enclosed in your shipment or downloaded from www.onlineregister.com/minolta-qms/

Internet—Follow the instructions on www.onlineregister.com/minolta-qms/

or

Software Utilities CD-ROM—Follow the instructions on the CD-ROM.

The screenshot shows a web browser window with the MINOLTA-QMS logo and tagline "The essentials of imaging". Below the header is a registration form with the following fields and options:

- Asterisks (*) indicate required fields.
- First Name * (text input)
- Last Name * (text input)
- E-mail Address * (text input)
- Company Name (text input)
- Address 1 * (text input)
- Address 2 (text input)
- City * (text input)
- State/Province * (dropdown menu with "Click to Select" text)
- Province/Country, if outside USA/Canada (text input)
- ZIP/Postal Code * (text input)
- Country * (dropdown menu with "Click to Select" text)
- Phone (text input)
- Fax (text input)
- Preferred method of contact: ☒ Mail, ☐ Fax, ☐ E-Mail, ☐ Phone

At the bottom of the form are "Next >" and "Cancel" buttons, and a page indicator "1 of 3".

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Replacing Consumables

1

Introduction

Item	Page
"What is a consumable ?"	page 2
"What is a plane ?"	page 2
"What is the life expectancy of consumables?"	page 3
"How do I order consumables?"	page 5
"Where can I get more information ?"	page 6
"How do I replace the fuser unit?"	page 7
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Consumable Life Expectancies

What is a consumable?

A consumable is an item that needs to be replaced at regular intervals. For the magicolor 3100, consumables include:

- Fuser unit
- Imaging unit
- Media feed roller
- Toner cartridges
- Transfer unit

What is a plane?

A **plane** (also called a face) is a single **pass** of media past the imaging unit. A **two-sided** (duplex) page (also called a **sheet**) consists of two passes of the imaging unit.

The number of sheets printed shown on the startup page may differ from the sheets printed and faces printed statistics in CrownView and on the consumables statistics page (Operator Control/Consumables/Print Statistics). The numbers on the startup page refer to number of sheets/faces printed during the lifetime of the printer.

The numbers in CrownView (a printer-based application for accessing printer configurations, status, and consumables usage information) and on the consumables statistics page refer to the number of sheets/faces printed to date during the current consumables tracking period (Administration/Consumables/Start Period menu).

What is the life expectancy of consumables?

Attention

The stated onsumable life expectancy is expressed in simplex letter/A4 pages @ normal 5% coverage in continuous printing—for example, average four-page jobs (optimal consumable life). A duplex page is equivalent to two simplex pages.

The actual life expectancy will vary (or be reduced) based on printing under specific operating conditions and other printing variables, such as intermittent printing—for example, one-page jobs, ambient temperature, humidity, media type, page size, and content of material printed—for example, text or graphics.

Attention

Failure to follow instructions as outlined in this manual could void your warranty. Use of consumables not manufactured by MINOLTA-QMS or use of non-supported print media 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.

The following messages indicate that an item needs to be replaced.

Item	This item needs replacing after...	Comment
Fuser unit	REPLACE FUSER UNIT displays in the message window. See “How do I replace the fuser unit?” on page 7.	Replace the fuser and the media feed rollers at the same time. Reset the statistics on the control panel (Operator Control/Consumables/Item Replaced/Fuser) menu.

Item	This item needs replacing after...	Comment
Imaging unit (4 OPCs, 4 developers, imaging unit transfer roller)	REPLACE IMAGING UNIT displays in the message window. See "How do I replace the imaging unit?" on page 12.	After replacing the imaging unit, the imaging unit automatically resets its statistics.
Media feed roller(s)	REPLACE FUSER UNIT displays in the message window. See "How do I replace the fuser unit?" on page 7.	Replace the fuser and the media feed roller(s) at the same time.
Toner cartridge	<COLOR> TONER EMPTY displays in the message window. See "How do I replace a toner cartridge?" on page 17.	After replacing the toner cartridge, reset the statistics on the control panel. (Operator Control/ Consumables/ Item Replaced/<Color> Toner) menu.
Transfer unit	REPLACE TRANSFER UNIT displays in the message window. See "Replacing the Transfer Unit" on page 21.	After replacing the transfer unit and media feed rollers, reset the statistics on the control panel (Operator Control/ Consumables/Item Replaced/Transfer Unit) menu.

Consumables Life Expectancies Chart

Fuser Unit and Media Feed Roller(s)	Approximately 100,000 simplex pages
--	-------------------------------------

Imaging Unit*		or	Imaging Unit*	
Number of Pages per Job	Maximum Simplex Pages		Percent Toner Coverage (Four-Page Average)	Maximum Simplex Pages
1	12,500		35%–40%	15,000
2	21,000		30%–35%	17,000
3	26,000		25%–30%	20,000
4 (Average Size)	30,000		20%–25%	23,000
5 and Above	30,000		Less Than 20%	30,000

Notes: *The imaging unit life is dependent on the average number of pages or the toner coverage, **whichever comes first**. For example, if you print four-page simplex jobs at 5% coverage, the maximum is 30,000 pages. If you print four-page simplex jobs, and your black (or any color) toner has exceeded a total of 35% coverage, your maximum is 15,000 pages. The highest coverage of color will lead the life of the imaging unit, not the average of four colors. *A simple display of pages remaining on your imaging unit life is in your CrownView Statistics. For more information, see the CrownBooks in PDF on the Software Utilities CD-ROM.*

Toner Cartridges	Percent Coverage of Simplex Pages (Average Job Size of Four Continuous Pages)							
	5%	10%	15%	20%	25%	30%	35%	40%
Black	8,500	4,250	2,833	2,125	1,700	1,417	1,214	1,063
Yellow, Magenta, Cyan	6,000	3,000	2,000	1,500	1,200	1,000	857	750

Transfer Unit	Approximately 25,000 simplex pages @ 5% coverage.
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How do I order consumables?

Choosing the right consumables for your 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 (either single cartridges or in four-toner Toner Value Kits) and other consumables for your printer are available from your local vendor or Q-SHOP (www.q-shop.com).

Where can I get more information?

To access consumables usage information, use the Operator Control/Consumables/Print Statistics menu on the control panel, or use the CrownView printer web page.

For further information about the consumables statistics page and replacement menus, refer to the *CrownBooks* in PDF on the *Software Utilities* CD-ROM. Consumables for your printer are available from your local vendor or Q-SHOP (www.q-shop.com).

If you need more assistance, information can be found at www.minolta-qms.com/support (click on Answer Base).

Replacing the Fuser Unit

WARNING!

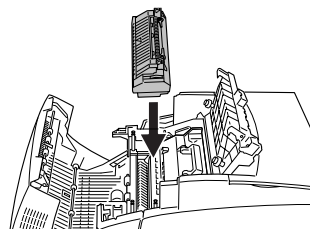
The fuser can become extremely hot and cause severe burns.
Make sure the printer is cool before handling it.



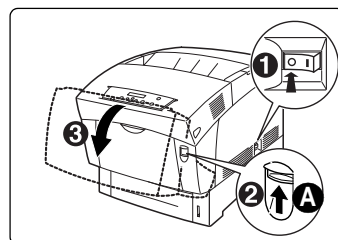
ACHTUNG! Die Fixiereinheit kann sehr heiß werden, so daß
Verbrennungsgefahr besteht. Bitte lassen Sie die Fixiereinheit einige
Zeit abkühlen, bevor Sie diese berühren.

How do I replace the fuser unit?

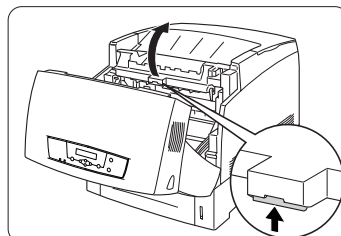
The fuser fuses the toner onto the media.
Replace the fuser unit (fuser and media
feed rollers) when the control panel
displays the message REPLACE FUSER
UNIT.



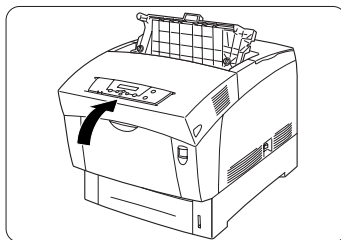
- 1 Turn the printer off ①.
- 2 Open the front cover (button A) ②, ③.



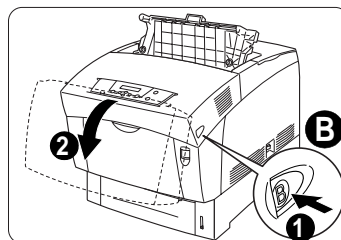
- 3 Open the imaging unit cover.



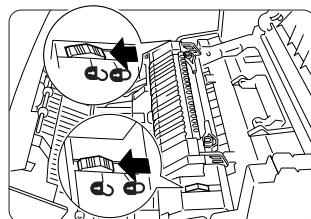
- 4 Close the front cover.



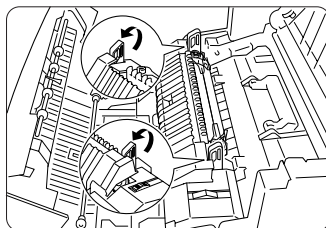
- 5 Open the front cover (button B) ①, ②.



- 6 Unlock the fuser unit by sliding the two side locks forward.



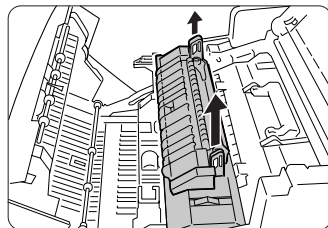
- 7 Lift up both levers of the fuser unit.



- 8 Grip the unit's levers, and gently lift it out of the printer.

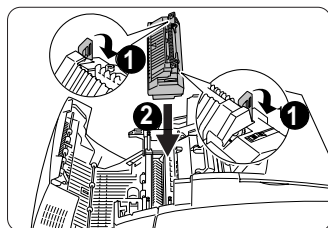


Dispose of the used fuser according to your local regulations.

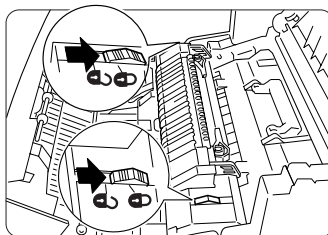


- 9 Unpack a new fuser unit, lift up both levers ①, grip the fuser unit by the levers, align it with the slots in the printer, and slowly lower it ②.

- 10 Completely push down both levers of the fuser unit.

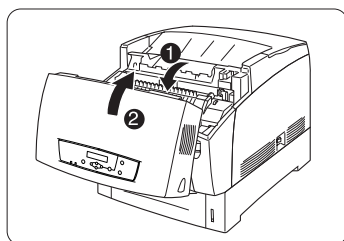


- 11 Lock the fuser unit by sliding the two side locks backwards.



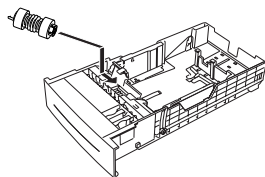
- 12 Close the covers ①, ②.

- 13 Continue with the media feed roller(s) replacement. "How do I replace the media feed roller(s)?" below.



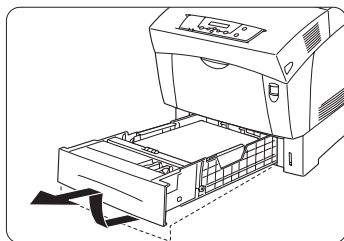
How do I replace the media feed roller(s)?

The media feed rollers feed media from the media tray(s) into the printer. When the media feed rollers deteriorate, media may not feed correctly from the media tray, resulting in media jams. Replace the media feed roller in each 500-sheet media tray each time you replace the fuser unit.



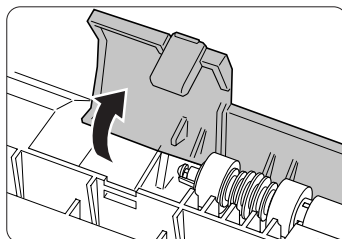
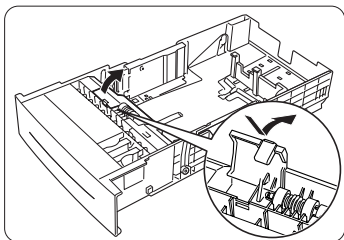
Three media feed rollers are included with the fuser unit. If you do not have a high-capacity input feeder (HCIF), two of the rollers do not need to be installed.

- 1 Pull the media tray out of the printer until it stops.

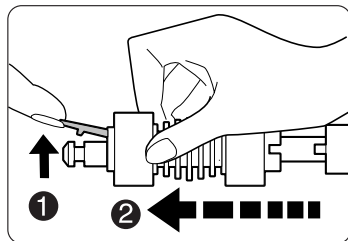


- 2 Hold the tray with both hands, lifting slightly, and remove it from the printer.

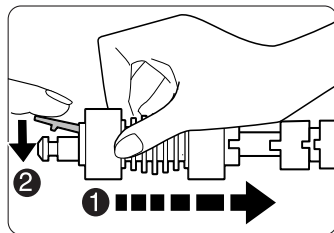
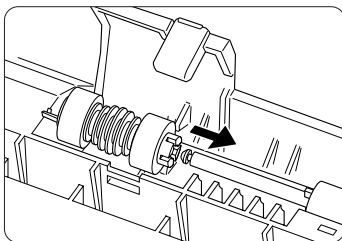
Push the tabs of the media feed roller cover to open the cover.



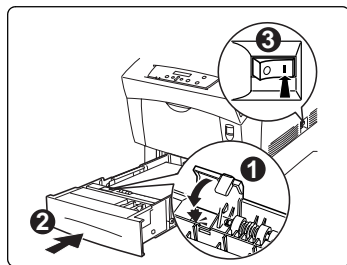
- 3 Lift the clip at the end of the media feed rollers ①, and remove the media feed rollers ②.



- 4 Align the new media feed rollers' axis with the shaft in the media tray as illustrated and slide the shaft through the roller until the clip locks into the groove at the end of the shaft.



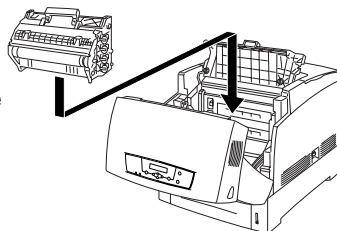
- 5 Close the media feed rollers cover ①.
- 6 Hold the media tray with both hands, align it with the opening in the printer and gently insert it.
- 7 Push the media tray completely back into the printer. ②
- 8 If you have a high-capacity input feeder (HCIF), repeat steps 1–8 for each media tray.
- 9 Turn the printer on. ③
- 10 For both the fuser and the media feed rollers, in the Operator Control/Consumables/Item Replaced/Fuser menu, choose **Yes** to reset the consumables usage monitoring system.



You must manually reset the consumables usage monitoring system to ensure accurate consumables monitoring.

Replacing the Imaging Unit

The imaging unit contains 4 OPCs (Optical Photo Conductors), 4 developers, and an imaging unit transfer roller that forms the image that is developed and transferred to the media. When the imaging unit is worn out, the message `REPLACE IMAGING UNIT` appears. After the imaging unit is replaced, the printer automatically resets the consumables count. Imaging unit life is directly related to the number of rotations of the OPCs. Longest unit life is achieved with continuous printing or minimum 4-page job size. Intermittent printing with small job sizes requires a cleaning rotation after each one-page simplex job, and therefore impacts OPC life.



Attention

The OPCs are extremely sensitive to bright light, direct sunlight, and touch. Always leave the imaging unit in its protective package until you're ready to install it. Any exposure to light should be avoided and limited to less than two minutes, or permanent damage could result.

If you suspect the OPCs are damaged due to exposure to light, put the entire imaging unit in a dark place to recover. Depending on the amount of exposure, recovery may take up to two hours. Recovery time is dependent on the amount of exposure sustained, and recovery is not guaranteed. Any damage resulting from mishandling of the OPCs will void the warranty of the OPCs.

How do I replace the imaging unit?

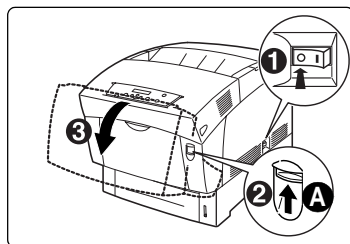
WARNING!

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

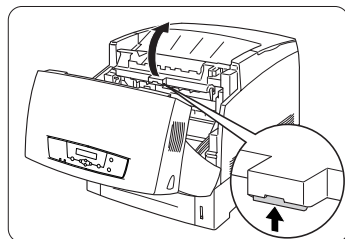


ACHTUNG! Die Fixiereinheit kann sehr heiß werden, so daß Verbrennungsgefahr besteht. Bitte lassen Sie die Fixiereinheit einige Zeit abkühlen, bevor Sie diese berühren.

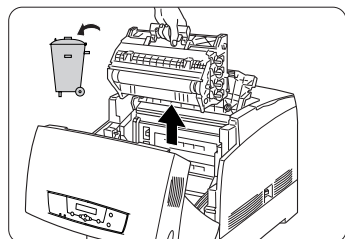
- 1 Turn off the printer ①.
- 2 Open the front cover (button A) ②,③.



- 3 Open the imaging unit cover.



- 4 Remove the used imaging unit.

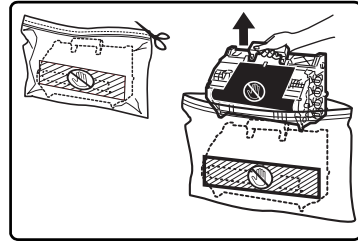


WARNING!

Dispose of the used imaging unit according to your local regulations.
Do not dispose of it by burning.

ACHTUNG! Entsorgen Sie die Belichtungseinheit keinesfalls durch
Verbrennen, sondern ordnungsgemäß entsprechend den lokalen
Bestimmungen.

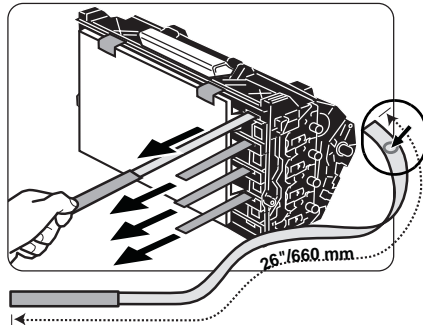
- 5 Remove the new imaging unit from its protective bag.



- 6 Holding the imaging unit horizontally, carefully pull the tabs straight out and completely away from the unit.

Attention

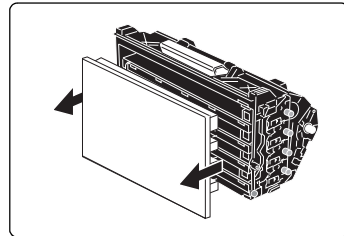
Do not twist the tab as you are pulling it. If any tab doesn't pull completely out (you must be able to see the circle imprinted on the end), the imaging unit must be replaced.



- 7 Carefully remove the protective cover.



We **strongly** suggest that you save the packaging materials in case you ever need to move or ship the printer.

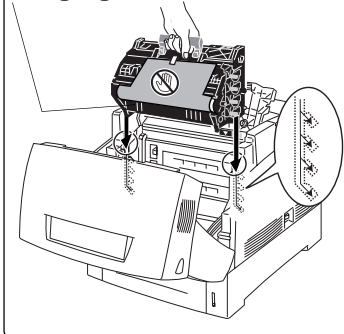


- 8 Gently guide the imaging unit straight into the printer, following the arrows on the printer to seat the pins.

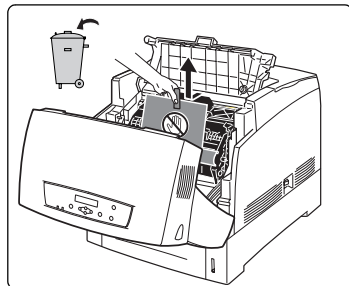
Attention

You can damage the unit if it is not aligned correctly.

Imaging unit transfer roller



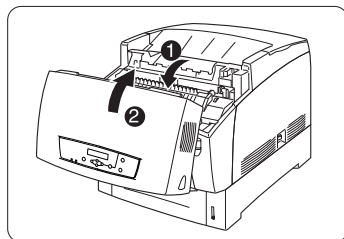
- 9 Remove the black protective sheet.



Attention

Do not touch black transfer rollers. They are extremely sensitive to hand oils and scratches, both of which reduce print quality. This type of damage is not covered by the product warranty.

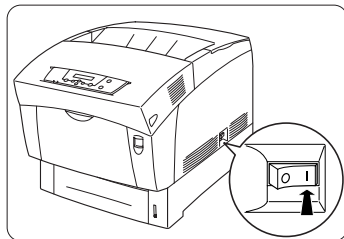
- 10 Close the covers ①, ②.



- 11 Turn on the printer.



You do not need to reset the consumables usage monitoring system when you replace an imaging unit.

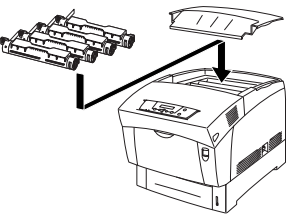


After approximately 6 minutes warmup (assuming normal temperature and humidity), your printer prints a startup page and displays “IDLE” on the message window.

This 6-minute warmup only happens when a new imaging unit has been installed. Normal time to warm up is approximately 1½ minutes.

Replacing a Toner Cartridge

Characters and images are created in your laser printer through a process that applies toner to the photosensitive OPCs (Organic Photo Conductors) inside your imaging unit. 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.



What are the toner cartridge life expectancies?

Toner cartridge life is directly related to the number of rotations of the OPC. Longest unit life is achieved with continuous printing which requires a cleaning rotation after every fourth page of an average size job. Intermittent printing with small job sizes requires a cleaning rotation after each one-page simplex job, and therefore impacts OPC life.

A toner cartridge contains enough toner to print letter/A4-size pages at the percent coverage stated (other factors will also affect toner life):

Coverage	Black	Yellow, Magenta, or Cyan
5%	8,500	6,000
10%	4,250	3,000
15%	2,853	2,000
20%	2,125	1,500
25%	1,700	1,200
30%	1,417	1,000
35%	1,214	857
40%	1,063	750
45%	944	667
50%	850	600
55%	733	545
60%	706	500
65%	657	462
70%	607	429
75%	567	400
80%	531	375
85%	500	353

Coverage	Black	Yellow, Magenta, or Cyan
90%	472	333
95%	447	316
100%	425	300

When a toner cartridge runs low, **<COLOR> TONER LOW** displays in the message window. Printing continues even though the warning appears. However, the color gradually fades, so replace the toner cartridge as soon as possible. Approximately 100 sheets after detecting that toner in a cartridge is low, the printer displays **<COLOR> TONER EMPTY** in the message window, and the printer stops.

If you change the toner cartridge before it is empty and do not reset the counter (Operator Control/Consumables/Item Replaced/<Color> Toner), the consumable status will be incorrect.

How should I handle toner cartridges?

Keep toner cartridges

- Away from open flames.
- 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. If the toner cartridge is moved from a cold place to a warm, humid place, condensation may occur, degrading print quality. Allow the toner to adapt to the environment for about one hour before use.

- Level during storage.

Do not 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.

How do I replace a toner cartridge?



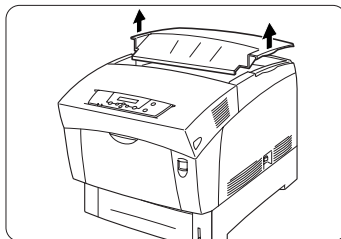
The toner is nontoxic. If you get toner on your hands, wash them in cool water and mild neutral detergent. If you get toner on your clothes, lightly dust them off as much as possible. If some toner remains on your clothes, use cool, not hot water, to rinse the toner off, provided your clothing is washable.

WARNING!

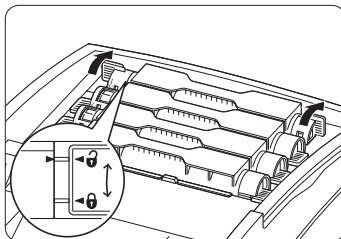
If you get toner in your eyes, wash it out immediately and consult a doctor. Material Safety Data Sheets (MSDS) information can be found at www.minolta-qms.com (click on the Online Help and Drivers).

ACHTUNG! Sollte Toner in Ihre Augen gelangen, die Augen unbedingt sofort mit kaltem Wasser ausspülen und einen Arzt aufsuchen. MSDS-Informationen (Material Safety Data Sheets; Datenblätter zur Materialsicherheit) finden Sie im Internet unter www.minolta-qms.com (klicken Sie auf "Online Help and Drivers").

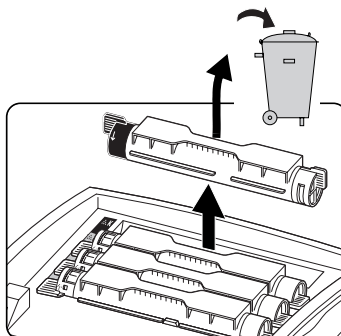
- 1 Check the message display to see which color toner is out.
- 2 Remove the top cover.



- 3 Gently rotate the toner levers to the unlocked (backward) position.



- 4 Remove the empty toner cartridge. Place the used cartridge in a plastic bag to avoid toner spillage and discard the empty cartridge.

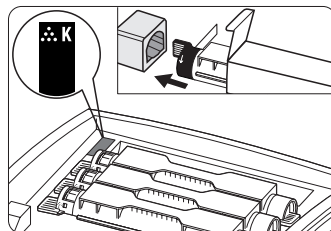


WARNING!

Dispose of the used toner cartridge according to your local regulations. Do not dispose of it by burning.

ACHTUNG! Entsorgen Sie alte Tonerkassetten keinesfalls durch Verbrennen, sondern ordnungsgemäß entsprechend den lokalen Bestimmungen.

- 5 Remove the new toner cartridge from its box.



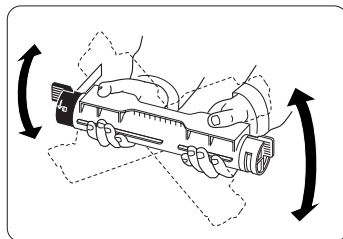
⚠ Attention

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

- 6 Holding the cartridge with both hands, gently shake it seven or eight times to distribute the toner.

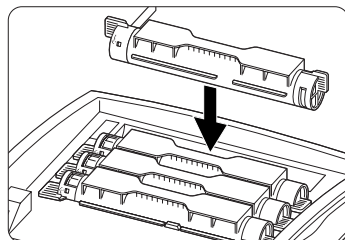


The toner cartridge should be shaken only at this point, before installation and removal of the toner seal (in step 9).

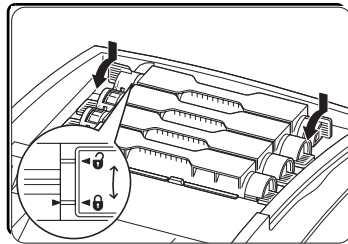


- 7 Align the toner cartridge with the cartridge guides. Gently push the cartridge into the printer.

The cartridge should install easily.



- 8 Gently rotate the the toner levers to the locked (forward) position.



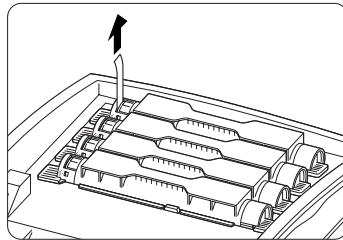
- 9 Pull the toner seal straight up.

Attention

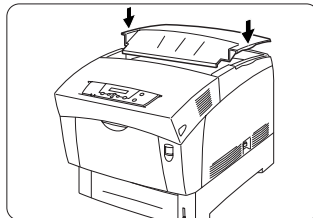
Pulling the seal to the front or side may damage the cartridge.



If the toner seal didn't pull completely out because it was pulled with too much force or it was not pulled straight up while installing toner, call Technical Support. Refer to the Service & Support Guide for the office nearest you.



- 10 Replace the top cover.
- 11 In the Operator Control/Consumables/Item Replaced/<Color> Toner (<Color> signifies black K, cyan C, magenta M, or yellow Y) menu choose **Yes** to reset the consumables usage monitoring system.

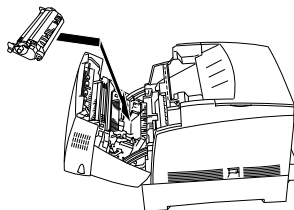


You must manually reset the consumables usage monitoring system to ensure accurate consumables monitoring.

- 12 After replacing toner, you may be required to print several pages before the printer recognizes the “new” toner cartridge.

Replacing the Transfer Unit

The transfer unit interfaces with the roller in the imaging unit.

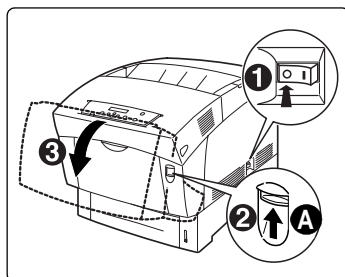


How do I replace the transfer unit?

- 1 Turn off the printer ①.
- 2 Open the front cover (button A) ②, ③.

Attention

Do not touch black transfer rollers. They are extremely sensitive to hand oils and scratches, both of which reduce print quality. This type of damage is not covered by the product warranty.

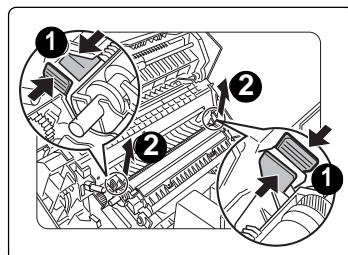


If you need more room to work in, open the imaging unit cover.

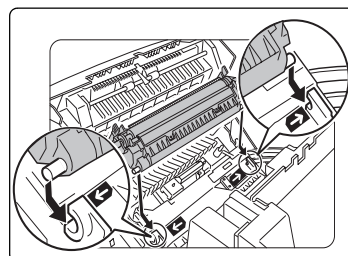
- 3 Grip the tabs at both ends of the transfer cartridge ① and gently lift it ② out of the printer.

Attention

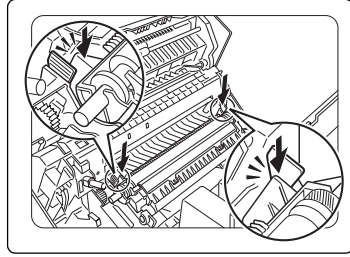
Lift the roller carefully to prevent toner from spilling out.



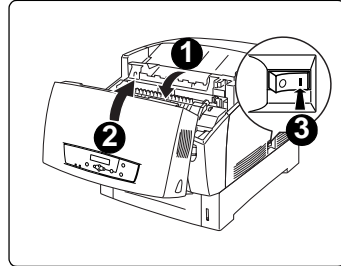
- 4 Unpack a new transfer cartridge and insert the knobs on both ends of the cartridge into the U-shaped guides inside the printer.



- 5 Lock the transfer cartridge into the printer by pushing down on the base of the tabs until you hear a click.



- 6 If you opened the imaging unit cover, close it ①.
- 7 Close the front cover ②.
- 8 Turn on the printer ③.
- 9 In the Operator Control/Consumables/Item Replaced/Transfer Unit menu choose **Yes** to reset the consumables usage monitoring system.



You must manually reset the consumables usage monitoring system to ensure accurate consumables monitoring.

Using Media

2

Introduction

This chapter provides information on handling, selecting, and storing media.

<i>Getting Started</i>	
"How do I take care of media?"	page 25
"What should I watch out for when handling media ?"	page 27
"What sizes of media can I use?"	page 29
"What Is the imageable (printable) area?"	page 30
"What is the difference between a nonprintable and nonguaranteed area?"	page 30
<i>Print Quality</i>	
"Why have different print qualities ?"	page 32
"Which print quality is the best ?"	page 33
"How do I select the print quality ?"	page 34
<i>Media Types</i>	
"What are the media types supported?"	page 33
"What is the difference between "glossy plain paper media type," "glossy thick 1 media type," and "glossy or coated stock"?"	page 34
"How do I select the media type ?"	page 34
<i>Other Information</i>	
"How do I prepare and load the media ?"	page 42
"How do I manually duplex ?"	page 53
"How do I autoduplex ?"	page 53
"Where can I order MINOLTA-QMS-approved media or get more information ?"	page 54



Attention

Using unsupported media such as ink jet paper or coated color transparencies will result in damaging the printer and voiding your warranty.

Media Storage and Handling

How do I take care of media?

Keep media on a flat, level surface in its original wrapper until it is time to load it.

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

When storing media, avoid

- Moisture, excess humidity

Keep media between 30% to 65% relative humidity. Toner does not adhere well to paper where it has become wet.

On the other hand, media that has been stored for a long time without staying in its packaging may dry up too much and also cause jamming.

- Direct sunlight
- Excess heat (up to 86° F/30° C)
- Dust
- Leaning media against other objects or placed in an upright position

Before purchasing a large quantity or special media, do a trial printing with the same media and check print quality.

What should I watch out for when handling 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

- Coated with a processed surface (such as carbon paper, digitally gloss-coated media, heat-sensitive paper, heat-pressure paper, heat-press transfer paper); colored paper that has been treated
- Special media designed specifically for inkjet printers
- Media that has already been printed on
 - An inkjet printer
 - A monochrome or color laser printer or copier
 - A heat-transfer printer
 - Another printer or fax machine
- Wet or damp

- Layered
- Adhesive
- Folded, creased, embossed, warped, or wrinkled
- Perforated, three-hole prepunched, or torn
- Too slick, too coarse, too textured
- Different in texture (roughness) on the front and back
- Too thin or too thick
- Stuck together with static electricity
- Composed of foil or gilt; too luminous
- Cold water transfer paper
- Heat sensitive or cannot withstand the fusing temperature (between 316° F/158° C and 356° F/180° C, depending on the media)
- Irregularly shaped (not rectangular or not cut at right angles); not uniform in size
- Attached with glue, tape, paper clips, staples, ribbons, hooks, or buttons
- Acidic
- Any other media that is not approved

Use media that is

- Suitable for plain-paper laser printers, such as standard or recycled office paper

What should I watch out for when loading envelopes?

Do not use envelopes that have

- Sticky flaps
- Tape seals, metal clasps, paper clips, fasteners, or peel-off strips for sealing
- Transparent windows
- Too rough of a surface
- Material that will melt, vaporize, offset discolor, or emit dangerous fumes
- Been presealed

Use envelopes that are

- Common office envelopes with diagonal joints, sharp folds and edges, and ordinary gummed flaps
- Approved for laser printing
- Dry
- Printed on the front address side only

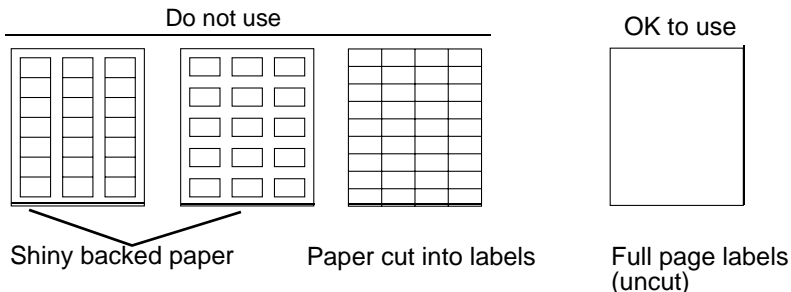
What should I watch out for when loading labels?

Do not use label sheets that

- Have labels that easily peel off
- Have the backing sheets that have peeled away or have exposed adhesive

Labels may stick to the fuser, causing them to peel off and media jams to occur.

- Are precut



Use label sheets that are

- Recommended for laser printers

What should I watch out for when loading postcards?

Do not use postcards that are

- Coated
- Warped
- Designed for inkjet printers
- Multicolored
- Preprinted or multicolored (may result in printer jamming)

Use postcards that are

- Japanese Post Office standard postcards (3.9 x 5.8:" [100 x 148 mm]) recommended for laser printers

What should I watch out for when loading transparencies?

Attention

Use only the MINOLTA-QMS-approved transparencies. Check www.minolta-qms.com/support (click on Answer Base) for currently approved media. To order approved media, go to www.q-shop.com.

Do not use transparencies that

- Are coated, such as transparencies designed for most color printers
- Have static electricity that will cause them to stick together

Use transparencies that are

- Monochrome, uncoated transparencies (also known as OHP film)



Refer to page 40 for information about the recommended Q-Media.

General Notes about Media

Load the media face-up with its top toward the back of the printer.

Often, an arrow on the media package label indicates the printing-side of the media. If you can't remember which side of the media to print on, remove the media from the tray, rotate the stack 180°, turn the stack over, and then place it back in the tray.



Attention

Do not allow media to go above the fill limit mark inside the tray or the media may not be fed correctly.

Media Trays

Tray Location	Media Tray	Sheet Capacity for Letter/A4-sized Media
Upper	Upper (standard) tray—Tray 2	500
Multipurpose	Multipurpose—Tray 1	100
HCIF	High-capacity Input Feeder (HCIF) (optional)—Trays 5 and 6	1,000 (2 x 500)
Notes	You may rename these trays for your convenience. See the <i>CrownBooks</i> in PDF on the <i>Software Utilities</i> CD-ROM for more information.	

Media Sizes and Print Area

What sizes of media can I use?

Your printer supports full-color printing on all approved media sizes.

Media	Media Size		Printer Mode	Input Source*	Auto-duplex
	Inches	Millimeters			
A4	8.2x11.7	210.0x297.0	**	U/M/H	Yes
A4 Transp.	8.2x11.7	210.0x297.0	Transparency	U/M/H	No
A5	5.9x8.3	149.0x210.0	**	U/M/H	Yes
B5 (ISO)	6.9x9.8	176.0x250.0	**	M	No
B5 (JIS)	7.2x10.1	182.0x257.0	**	U/M/H	Yes
C5	6.4x9.0	162.0x229.0	**	M	No
C6	4.5x6.4	114.0x162.0	**	M	No
Chokey 3	4.72 x 9.25	120 x 235	Envelope	M	No
Chokey 4	3.54 x 8.00	90 x 205	Envelope	M	No
Commercial #10 Envelope	4.1x9.5	105.0x241.3	Envelope	M	No
Custom Paper Sizes	8.5 x up to 35	215.9 x up to 900	Plain Paper	M	No
Executive	7.3x10.5	184.0x267.0	**	U/M/H	Yes
Folio	8.5x13.0	215.9x330.2	**	U/M/H	Yes
International DL Envelope	4.3x8.7	110.0x220.0	Envelope	M	No
Japanese Postcard	3.9x5.8	100.0x148.0	Postcard	M	No
Kai 16	7.3 x 10.2	185 x 260	**	M	Yes
Kai 32	5.1 X 7.2	130 X 185	**	M	Yes
Legal	8.5x14.0	215.9x355.6	**	U/M/H	Yes
Letter	8.5x11.0	215.9x279.4	**	U/M/H	Yes
Letter Transp.	8.5x11.0	215.9x279.4	Transparency	U/M/H	No
Monarch	3.9x7.5	98.0x191.0	**	M	No
Statement	5.5x8.5	140.0x216.0	**	M	Yes

Notes: * U = Upper (standard) media tray (500 sheet)

M = Multipurpose media tray (100 sheet)

H = High-capacity input feeder media tray (2 x 500 sheet)

**Choices are Plain Paper, Glossy Plain Paper, Label, Thick 1, Glossy Thick 1, Thick 2 (plain or glossy), or Thick 3 (plain or glossy). See "What are the media types supported?" on page 33. Thick 3 can be printed only from the multipurpose tray.

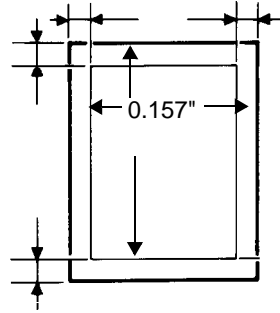
What is the imageable (printable) area

Each media size has a specific imageable area, the maximum area on which the printer can print clearly and without distortion.

This area is subject to both hardware limits (the physical media size and the margins required by the printer) and software constraints (the amount of memory available for the full-page frame buffer). The imageable (printable) area for all media sizes is the page size minus 0.157" (4 mm) from all edges of the media.



All media is fed in portrait (short edge first) orientation, and all media is output to the 250-sheet output tray on top of the printer.

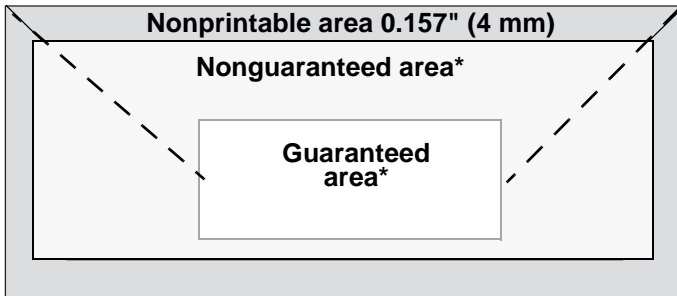


What is the difference between a nonprintable and nonguaranteed area?

There is a 0.157 inch (4 mm) nonprintable border for all edges on all media sizes and types. Only envelopes have a nonguaranteed area.



Print orientation is determined by your application.



* Varies with envelope type.

Page Margins

Margins are set through your application. Some applications allow you to set custom page sizes and margins while others have only standard page sizes and margins from which to choose. If you choose a standard format, you may lose part of your image (due to imageable area constraints). If you can custom-size your page, use those sizes given for the imageable area for optimum results.

Image Alignment

If for any reason, you need to change the image alignment, you can do so in several different ways:

- Adjust the margins or page size through your application (recommended method).
- Use the printer's control panel (Administration/Engine/Image Alignment menu).
- Use the PostScript translate and scale operators to reduce image size and change its placement on the page (requires PostScript programming knowledge).

Output Tray

The single face-down output tray has a capacity of 250 sheets of 20 lb (75 g/m²) bond paper. It is possible to use the combination of upper, multipurpose, and HCIF trays to load up to 1,600 sheets of media, but don't forget the output tray has a limit.

Media

- Try printing your data on a plain sheet of paper first to check placement.
- All media is fed on the short edge.
- Test any stock thicker than 24 lb bond (90 g/m²) to ensure that its performance is acceptable. You should test the number of sheets of thick stock a media tray can hold to ensure that its performance is acceptable.
- Select **Single User Mode** or **Network Mode** (job modes) to specify how media type requests are handled. For more information, refer to the *CrownBooks* in PDF format on the *Software Utilities* CD-ROM.
 - In **Single User Mode**, you can select the media type and size from the drivers. The driver will overwrite any settings on the printer.
 - In **Network Mode**, if special media is not selected in both the driver and from the printer's control panel, the printer uses plain paper settings.
- Select **print quality** to control the speed of printing, the fuser temperature, and the amount of toner gloss.
- Select the **media type**.

Why have different print qualities?

The specific **print quality** that is best depends upon your particular needs, for example, you can control the the amount of toner gloss.

Which print quality is best?

Print Quality	Resolution: Dots per Inch (dpi)	Speed	Comment
Standard	600 x 600	Full	If getting your jobs printed in a timely manner is most important.
Quality	1200 x 1200	Full	If getting your jobs printed with more gloss and better quality is most important.
Fine	1200 x 1200	Half	If getting your jobs printed with more gloss and best quality is most important.

How do I choose print quality?

For example, in the printer driver (Features tab, Resolution [DPI] option), select Quality.

You have the choice to customize the printing. For example, printing a glossy (shinier) image on plain paper is less expensive, and you don't have to load two media types in your trays.

Test any stock to ensure that its performance is acceptable.

What are the media types supported?

Media Type Selection	Duplexing Supported***	Weight
Plain Paper	Yes	16–24 lb bond (60–90 g/m²)
Glossy Plain (the image is glossy, not the media)		
Thick 1 (plain media)	Yes	76–99 g/m²
Thick 1 (glossy stock media)		
Glossy Thick 1 (the image is glossy, not the media)		
Thick 2 (plain media)	**	100–159 g/m²
Thick 2 (glossy stock media)		
Thick 3* (plain media)	No	160–216 g/m²
Thick 3* (glossy stock media)		
Evelopes*		n/a
Labels Stock*		n/a
Postcards*		n/a
Transparency		n/a
Notes: n/a = not applicable. *Printed from the multipurpose tray only. **Duplexing is supported only up to 28 lb (105 g/m²) bond.		

What is the difference between “glossy plain paper,” “glossy thick 1,” “glossy stock,” and “coated stock”?

A **glossy plain paper print mode**, whether it be for “Glossy Plain” or “Glossy Thick 1,” pertains to the amount of gloss the **toner** has when it is on the page.

Glossy stock media type is when the **media** itself is shiny. Refer to “Thick Stock” on page 36 for the approved glossy media and their weights, as in Thick 2 or Thick 3. Check www.minolta-qms.com/support (click on Answer Base) for currently approved media.

Coated stock media type is when the media has a coating (shiny or otherwise) which may not withstand the fusing temperature (between 316° F/ 158° C and 356° F/180° C, depending on the media).

 **Attention**

Using unsupported media will result in damaging the printer and voiding your warranty.

Since it may be difficult to tell whether media has a coating, check with www.minolta-qms.com/support (click on Answer Base) for currently approved media.

How do I select the media type?

For example, in the printer driver (Paper tab, Media Type option), select Plain Paper.

Plain Paper

Media Type	Plain paper Glossy plain	
Input	Tray	Upper Multipurpose High-capacity input feeder (optional trays)
	Capacity	Upper: 500 sheets* of 20 lb bond (75 g/m²) paper; capacity for other weights varies accordingly. Multipurpose: 100 sheets of 20 lb bond (75 g/m²) paper; capacity for other weights varies accordingly. High-capacity input feeder (each tray): 500 sheets* of 20 lb bond (75 g/m²) paper; capacity for other weights varies accordingly.

Orientation	Upper or optional tray	Face up
	Multipurpose tray	Face down
Approved Media	Use only media approved for laser products. Check www.minolta-qms.com/support (click on Answer Base) for currently approved media. To order approved media, go to www.q-shop.com .	
Weight	16–24 lb bond (60–90 g/m ²)	
Duplexing	Supported up to 28 lb bond (105 g/m ²).	
Warning	Using unsupported media such as ink jet paper will result in damaging the printer and voiding your warranty.	
Notes	<p>*For A5-size media, load up to 350 sheets only.</p> <p>Printing a glossy (shinier) image on plain paper (Glossy Plain media type) is less expensive.</p>	

Special Note about Custom (and Oversized) Media

When printing on media that is longer than 14 inches (355.6 mm), use the multipurpose tray extender and support the media with your hands underneath while it feeds through the multipurpose tray.

Input	Tray	Multipurpose tray only
	Capacity	Up to 50 sheets, depending on the thickness of the media
Orientation	Face down	
Weight	Varies	
Print Mode to Select	Plain Paper	
Duplexing	Not supported	
Notes	<ul style="list-style-type: none"> ■ Width: 3.5 inches (88.9 mm) up to 8.5 inches (215.9 mm) ■ Length: 5.5 inches (139.7 mm) up to 35.4 inches (900 mm) ■ On media that is longer than 14 inches (355.6 mm), the printer pauses for a calibration after every page. 	

Thick Stock

Media Type	Thick 1 Glossy Thick 1 (toner is glossier) Thick 2 (plain or glossy media) Thick 3 (plain or glossy media)	
Input	Tray	Thick 1 all input sources
		Glossy Thick 1 all input sources
		Thick 2 all input sources
		Thick 3 multipurpose tray only
	Capacity	Up to 50 sheets, depending on the thickness of the media
Orientation	Upper or optional tray	Face up
	Multipurpose tray	Face down
Approved Media	Use only media approved for laser products. Check www.minolta-qms.com/support (click on Answer Base) for currently approved media. To order approved media, go to www.q-shop.com .	
Weight	Thick 1	76–99 g/m ²
	Glossy Thick 1	76–99 g/m ²
	Thick 2 (plain or glossy)	100–159 g/m ²
	Thick 3 (plain or glossy)	160–216 g/m ²
Duplexing	Thick 1, Glossy Thick 1, and Thick 2 up to 105 g/m ² are supported.	
	Thick 2 over 105 g/m ² and Thick 3 are not supported.	

Notes	<ul style="list-style-type: none"> ■ Test all thick stock to ensure acceptable performance. ■ 43 lb (163 g/m²) bond is also referred to as 90 lb index stock. ■ Test any stock such as rigid cardboard (maximum 216 g/m²) to ensure that the image does not shift. ■ Do not mix thick stock with any other media in the media trays, as this will cause printer jamming. ■ Do not duplex envelopes and postcards, even though they use the Thick 1 media selection.
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Envelopes

Media Type	Envelope	
Input	Tray	Multipurpose tray only
	Capacity	Up to 100, depending on the thickness of the envelopes
Orientation	Face down	
Approved Media	Use only media approved for laser products. Check www.minolta-qms.com/support (click on Answer Base) for currently approved media. To order approved media, go to www.q-shop.com .	
Duplexing	Not supported	

Glossy Media

Glossy Stock

Media Type	Glossy Plain Paper—see “Plain Paper” on page 34. Glossy Thick 1—see “Thick Stock” on page 36. Thick 2 or Thick 3 Glossy Stock—see “Thick Stock” on page 36.
Approved Media	Use only media approved for laser products. Check www.minolta-qms.com/support (click on Answer Base) for currently approved media. To order approved media, go to www.q-shop.com .
Duplexing	Not supported over 28 lb (163 g/m ²)
Notes	See “What is the difference between “glossy plain paper,” “glossy thick 1,” “glossy stock,” and “coated stock”?” on page 34.

Glossy Toner

For all media types, in the print quality option on the Features Tab in the printer driver, Quality has more toner gloss than Standard, and Fine has more toner gloss than Quality.

Label Stock

Media Type	Label stock	
Input	Tray	Multipurpose tray only
	Capacity	Up to 50 sheets, depending on the thickness of the labels
Orientation	Face down	
Approved Media	Use only media approved for laser products. Check www.minolta-qms.com/support (click on Answer Base) for currently approved media. To order approved media, go to www.q-shop.com .	
Duplexing	Not supported	

Notes	<ul style="list-style-type: none"> ■ Format label data within your application. Try printing your data on a plain sheet of paper first to check placement. ■ Avoid using labels with exposed adhesive; it may stick to the fuser, 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 (Japanese size)

Media Type	Postcard	
Input	Tray	Multipurpose tray only
	Capacity	Up to 100 sheets, depending on the thickness of the postcards
Orientation	Face down	
Approved Media	Use only media approved for laser products. Check www.minolta-qms.com/support (click on Answer Base) for currently approved media. To order approved media, go to www.q-shop.com .	
Duplexing	Not supported	

Notes	<ul style="list-style-type: none"> ■ Use only Japanese Post Office standard postcards (3.9" x 5.8" [100 x 148 mm]) recommended for laser printers. ■ If the postcard is warped, press on the warped area to flatten it before putting it in the multipurpose tray. ■ Using preprinted multicolored postcards may result in printer jamming.
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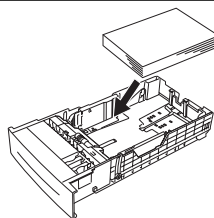
Transparencies (Uncoated Only)

Media Type	Transparency	
Input	Tray	All input sources
	Capacity	Up to 100 sheets, depending on the thickness of the transparencies
Orientation	Upper or optional tray	Face up
	Multipurpose tray	Face down
Approved Media	<p>Use uncoated transparencies (also known as OHP film). We recommend</p> <ul style="list-style-type: none"> ■ Q-Media Transparency Media for the magicolor 3100 series (letter and A4 sizes only) ■ Only media recommended for laser products. Check www.minolta-qms.com/support (click on Answer Base) for currently approved media. (<i>Often, you can't tell by looking at an unprinted transparency or by looking at the outside of the package which transparencies are acceptable.</i>) To order approved media, go to www.q-shop.com. 	
Media Size	Only letter and A4 sized transparencies are supported.	
Duplexing	Not supported	
Warning	Using unsupported transparency media such as coated color transparencies will result in damaging the printer and voiding your warranty.	

Notes	<ul style="list-style-type: none"> ■ Use uncoated transparencies. You may print colored text and/or images on monochrome transparencies. ■ Remove transparency media as soon as possible from the output tray to avoid buildup static. ■ Do not handle transparencies too much. Do not fan large quantities of transparencies before loading. If you touch the face of transparencies with your bare hands, print quality may be affected. ■ You can print continuously with transparencies. However, this could affect the media feed, depending on the media quality, static buildup, and printing environment. If you have problems loading a large number of transparencies at a time, try loading only 1–10 sheets. For the 500-sheet media trays, try loading about 100 pages of plain paper first in the tray to give more height to the transparency stack to reach the feed rollers.
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Loading Media

Check www.minolta-qms.com/support (click on Answer Base) for currently approved media. To order approved media, go to www.q-shop.com.

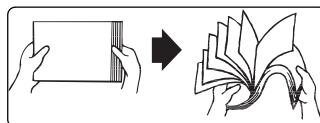


How do I prepare and load the media?

Preparing the Media



Don't unwrap the paper above the printer, as this might cause paper particles to fall into the printer. Don't fan large quantities of transparency media.



- 1 Take off the top and bottom sheets of a ream of paper.
- 2 Holding a stack of approximately 500 sheets at a time, fan the stack to prevent static buildup in the paper before inserting it in a tray.

Loading and Printing Media

Refilling an Upper or Optional Media Tray

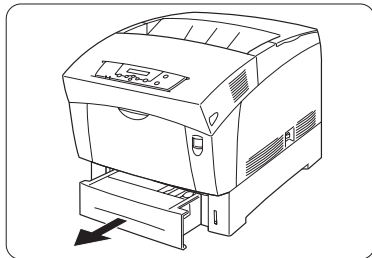


The illustrations show a standard upper media tray; however, instructions are the same for a high-capacity input feeder media tray.

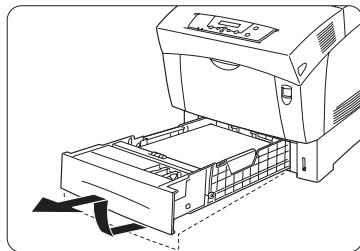
Attention

Except for transparencies, do not mix media of different sizes, types, or weights in the same tray, as this will cause printer jamming.

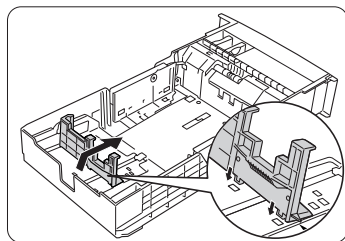
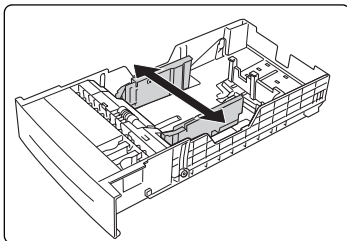
- 1 Slide open the media tray until it stops.



- 2 Using two hands, lift it slightly to remove it from the printer and place it on a flat surface.
- 3 Remove any media remaining in the tray.



- 4 If necessary, adjust the two side media guides and the end media guide to the proper positions.

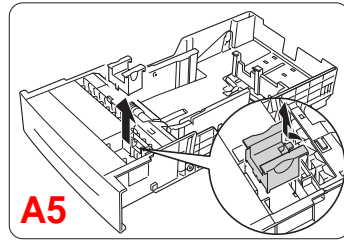


⚠ Attention

⚠ The end media guide must be in direct alignment with the media size mark in the bottom of the media tray. If the guide is not in the proper hole, automatic paper size detection will not work.

- 5** To set the tray for A5 paper, use the provided A5 spacer.

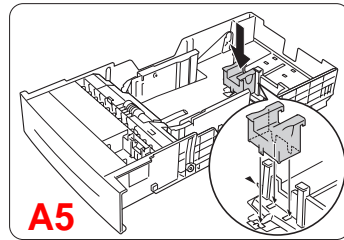
- a** Lift the A5 spacer from its storage place in the media tray.
- b** Gently lift the end media guide to position the guide in the proper media size hole.



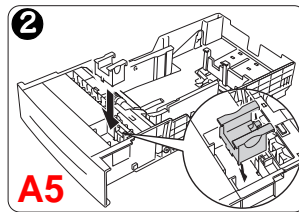
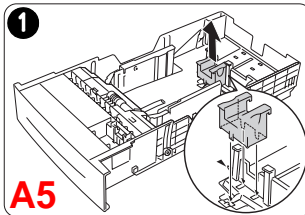
- c** Insert the spacer into its slot and load the A5 media.



Make sure that both the end media guide and A5 spacer have clicked into place.



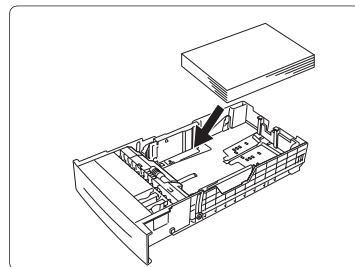
- d** To return to other approved media sizes, remove the A5 spacer from the slot. and then replace it in the tray.



- 6** Load the media (plain or glossy) face-up with its top toward the back of the printer.

Often, an arrow on the media package label indicates the printing-side of the media. If you can't remember which side of the media to print on, remove the media from the tray, rotate the stack 180°, turn the stack over, and then place it back in the tray.

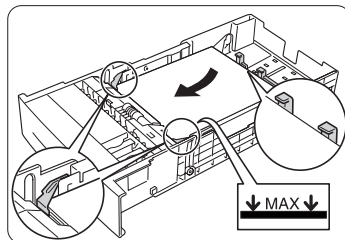
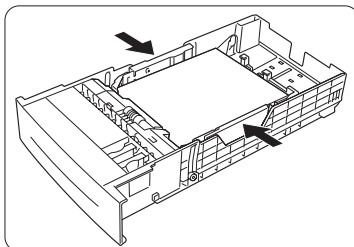
A fill limit mark is provided on the inside of the tray. The upper and optional media trays hold 500 sheets of 20 lb bond (75 g/m²) paper.



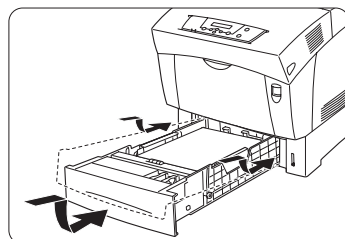
- 7 If you have removed media from the tray, stack it with the new media, even the edges, then reload it.

⚠ Attention

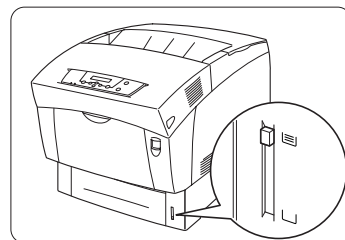
Readjust the media guides after inserting the media. Improperly adjusted guides may cause poor print quality, media jams, or printer damage. The paper should fit easily between the guides. Make sure the paper corners are not bent. Do not overfill the tray.



- 8 Slide the media tray back into the printer.



Check the gauge to make sure the tray is registering the loaded media. Use this gauge to determine when the tray needs to be refilled.

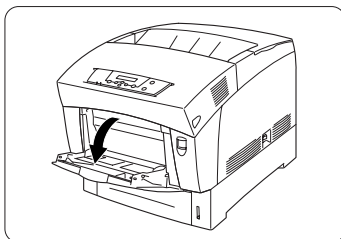


Refilling a Multipurpose Media Tray

- 1 Take off the top and bottom sheets of a ream of paper. Holding a stack of approximately 100 sheets at a time, fan the stack to prevent static buildup in the paper before inserting it in a tray. Don't fan large quantities of transparency media.

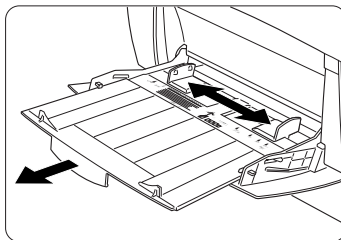
- 2 Open the multipurpose tray.

Do not place heavy objects on the multipurpose tray.



- 3 Adjust the media guides to the width of the media.

The tray extender supports long media.

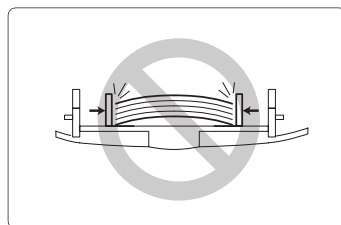


Attention

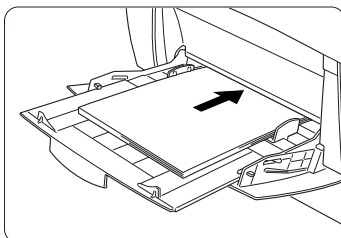
Make sure the media fits easily between the guides. Improperly adjusted guides may cause poor print quality, media jams, or printer damage.



Make sure the guides are snug enough to keep the media straight, but not so tight that it buckles.



- 4 Place the media into the multipurpose tray with the printing-side up.



Using Media Other Than Plain Paper

Attention

For information about media recommended for your printer, go to www.minolta-qms.com/support, then click on the Answer Base.


Attention

Although your printer was designed for occasional 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.

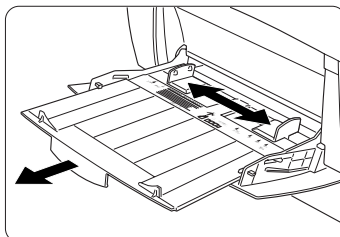
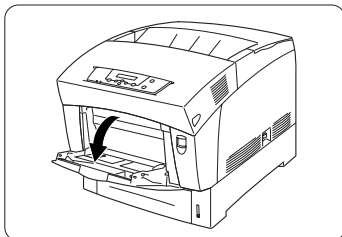
How do I load and print envelopes?



Envelope printing is supported only from the multipurpose tray.

- 1 In the printer driver (Paper tab, Media Type option), select Envelope.
- 2 Select the size of envelope, either
 - a Press the MP Size  key and scroll to the required envelope size and select it, or
 - b On the control panel, press the Menu ^{MENU}★ key and select Operator Control/Multipurpose Size, and scroll to the required envelope size, and select it.
- 4 Place the envelopes on a flat surface, and flatten them by pressing down the corners.
- 5 Flex the envelope stack (including the edges) to remove any stiffness.
- 6 Correct any bent corners, and then tap the envelopes on a flat surface to align them.

- 7 Open the multipurpose tray and adjust the media guides to the length and width of the envelopes.

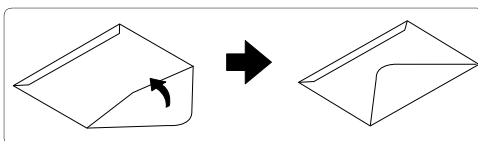


⚠ Attention

Improperly adjusted guides may cause poor print quality, media jams, or printer damage.

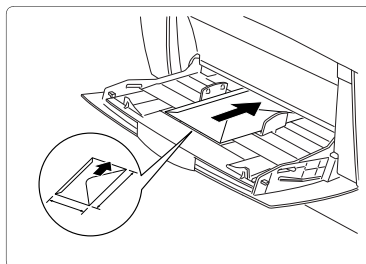
- 8 Fold the flaps.

Make sure the adhesive is dry.



- 9 Place the envelope stack into the multipurpose tray with the printing-side down.

Print envelopes on the front address 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.



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

- 10 Recheck the media guides to make sure they are adjusted to the width of the envelopes.
- 11 Print the envelopes.

- 12 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.



How do I load and print glossy stock?

Refer to “Loading and Printing Media” on page 42.

How do I load and print labels?





Label printing is supported only from the multipurpose tray in letter or A4 media sizes.

- 1 In the printer driver (Paper tab, Media Type option), select Label Stock.
- 2 Select the size of label.
 - a Press the MP Size  key and scroll to the required label size and select it, or
 - b On the control panel, press the Menu  key and select Operator Control/Multipurpose Size. Scroll to the required label size and select it.
- 4 Load the label media face down in the multipurpose tray.
- 5 Adjust the media guides to the width of the label media.
- 6 Print the labels.

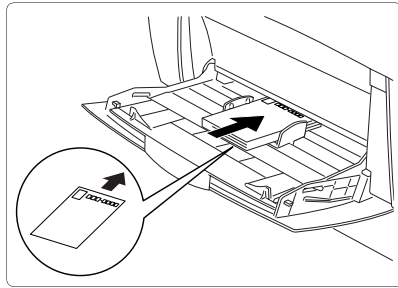
How do I load and print postcards?



Postcard printing is only supported from the multipurpose tray.

- 1 In the printer driver (Paper tab, Media Type option), select Postcard.
- 2 Select postcard.
 - a Press the MP Size  key and scroll to Postcard and select it, or
 - b On the control panel, press the Menu  key and select Operator Control/Multipurpose Size. Scroll to Postcard and select it.
- 4 Place the postcards on a flat surface, and flatten the corners by pressing down them.

- 5 Load the postcard media printing-side down in the multipurpose tray.
- 6 Adjust the media guides to the width of the postcards.
- 7 Print the postcards.



How do I load and print thick stock?

Attention

Do not mix thick stock with any other media in the same tray, as this will cause printer jamming.




Most thick stock printing is supported from any inputbin. However, media type "Thick 3" can be printed only from the multipurpose tray.


- 1 In the printer driver (Paper tab, Media Type option), select Thick 1 (76–99 g/m²), Glossy Thick 1 (76–99 g/m²) or Thick 2 (100–159 g/m²).
- 2 Remove any media in the media tray.
- 3 Load the new media.
- 4 Slide the media tray back into the printer.
- 5 Print the thick stock.

How do I load and print transparencies?

Attention

Use only transparency media approved for this printer. Check www.minolta-qms.com/support (click on Answer Base) for currently approved media. To order approved media, go to www.q-shop.com.

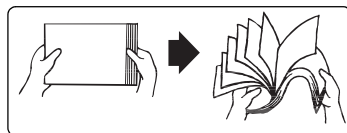
- 1 In the printer driver (Paper tab, Media Type option), select Transparency and (Paper tab, Paper Size option), select either Letter or A4.
- 2 For transparencies, select the size of transparency, either
 - a For the multipurpose tray, press the MP Size  key and scroll to the required transparency size and select it, **or**

- b** For all input trays, on the control panel, press the Menu  key and select Operator Control/Multipurpose Size. Scroll to the required transparency size and select it.

3 Fan a few transparencies.



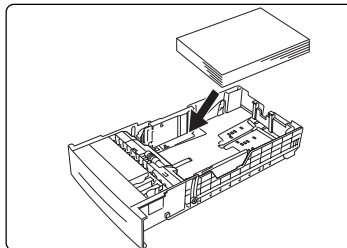
Fanning a large number will build up static electricity.



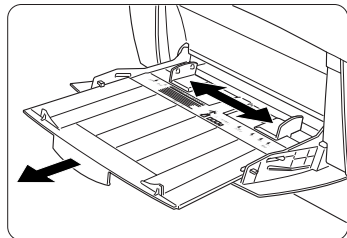
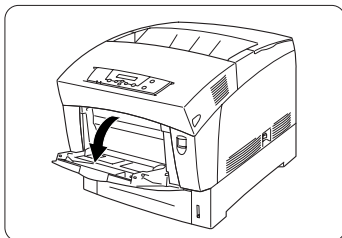
4 Load the media trays.

- a** Put media face side down in the upper or optional trays,

or



- b** Open the multipurpose tray and adjust the media guides to the width of the transparencies.



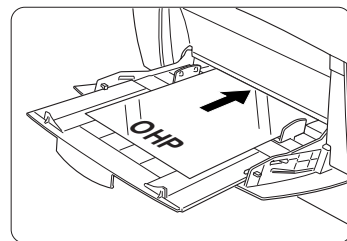
⚠ Attention

Improperly adjusted guides may cause poor print quality, media jams, or printer damage.

- c** Place the transparencies into the multipurpose tray with the printing-side up.

4 Print the transparencies.

Immediately remove the printed transparencies from the output tray.



System Memory (RAM) Requirements

Basic Functionality

Quality	Monochrome				Color			
	Simplex		Duplex		Simplex		Duplex	
	S/Q	Fine	S/Q	Fine	S/Q	Fine	S/Q	Fine
Letter/ A4	256 MB							
Legal								
Notes:	S = Standard, Q = Quality							

Maximum Performance

	Monochrome				Color			
	Simplex		Duplex		Simplex		Duplex	
Quality	S/Q	Fine	S/Q	Fine	S/Q	Fine	S/Q	Fine
Letter/A4	256 MB							256 MB
Legal								288 MB
Notes:	S = Standard, Q = Quality							

Duplexing

Select paper with high opacity for duplex (2-sided) printing. Opacity refers to how effectively paper blocks out what is written on the opposite side of the page. If the paper has low opacity (high translucency), then the printed data from one side of the page will show through to the other side. For best results, print a small quantity to make sure the opacity is acceptable.



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

How do I manually duplex?



Media jams may occur if the printed sheet(s) reinserted are not entirely flat.

- 1 In the printer driver (Paper tab), select Simplex, then double-click OK.
- 2 In the Print Document screen, select All.
- 3 Select and print the Odd-Numbered Pages.
- 4 Remove the media, flip it over, and select and print the Even-Numbered Pages.

How do I autoduplex?

Your printer is configured with 256 MB of RAM. Duplex (2-sided) printing can be done automatically with enough memory installed. For example, a Fine print quality, 1200 dpi duplex legal-size page would require 288 MB of SDRAM. Additional memory can be added up to 512 MB. Very high coverage pages may revert to 600 dpi when duplex printing if enough memory is not installed. With letter media, two sheets are in the media path; with legal, only one is. Therefore, it requires more memory to print the two sheets of letter media.

Duplexing envelopes, glossy stock heavier than 28 lb bond (105 g/m²), labels, postcards, thick stock heavier than 28 lb bond (105 g/m²), transfer media, or transparencies is not supported.

1

To print duplex (both sides of the sheet), load the media with the **top** of the media toward the back of the tray. When printing from the

- Upper or optional trays, load the media printing-side up.
- Multipurpose tray, load the media printing-side down.

In autoduplexing, the back side is printed first and the front side is printed last.

- 2 Set the driver—for example: in the Layout tab, Duplex Options, select 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.

Where can I order MINOLTA-QMS-approved media or get more information?

See your application documentation for specific information on formatting data and printing.

Check www.minolta-qms.com/support (click on Answer Base) for currently approved media. To order approved media, go to www.q-shop.com.

See the *Service & Support Guide* for a complete listing of support telephone numbers.

Maintaining the Printer

3

Introduction

"How do I handle the printer?"	page 56
" When does the printer need cleaning?"	page 58
"What cleaning materials should I use?"	page 58
"How do I clean the density sensor ?"	page 60

How do I handle the printer?

- Handle the printer with care to preserve its life. Abuse may cause damage.
- 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.
- Do not tilt the printer more than 10° in any direction.



For best output quality and longest consumables life, keep the printer on a hard, flat, level (within $\pm 5^\circ$) surface capable of supporting about 119 lbs (53.9 kg). A surface can be tested for levelness with a standard round pencil. If the pencil rolls, the surface is not level.

- Do not tap paper stacks on the printer.
- Do not oil, lubricate, or disassemble the printer.
- Do not touch the transfer roller cartridge, 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, excessive media curl, or built-up static. Remove transparency media as soon as it's printed.

- Handle toner carefully.
- Do not use toner cartridges if they have been removed from the printer. Take care to avoid toner spillage caused by shaking or bumping the toner cartridge.



The toner is nontoxic. If you get toner on your skin, wash it off with cool water and 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.

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).

ACHTUNG! Sollte Toner in Ihre Augen gelangen, die Augen unbedingt sofort mit kaltem Wasser ausspülen und einen Arzt aufsuchen. MSDS-Informationen (Material Safety Data Sheets; Datenblätter zur Materialsicherheit) finden Sie im Internet unter www.minolta-qms.com (klicken Sie auf "Answer Base").

- Lift the printer from the bottom only, using the carrying grips. Make sure that two people are available to lift the printer when moving it.
- Do not place anything on the top of the printer.
- Do not open any cover of the printer **during** printing.
- Always close the printer covers gently. Never expose the printer to vibrations.
- Do not leave the printer's covers open for any length of time, especially in well-lit places; light may damage the imaging unit.

Attention

The OPCs in the imaging unit are extremely sensitive to bright light, direct sunlight, and touch. Always leave the imaging unit in its protective box until you're ready to install it. Any exposure to light should be limited to less than two minutes, or permanent damage could result. Handle the unit carefully so you don't touch the black surface of the transfer roller.

- Do not cover the printer immediately after using it. Turn it off and wait until it cools down.

When the front cover is opened, the fuser temperature drops gradually (one hour wait time).

Cleaning

When does the printer need cleaning?

Internal Cleaning Cycles

The image unit performs an automatic cleaning rotation after every page of one-page simplex jobs and pages longer than 14 inches (355.6 mm), and between pages of multipage jobs, depending on the amount of processing required between pages. Cleaning cycles also occur at intervals (as shown below) depending on the amount of simplex pages printed.

The printer pauses for approximately 30 seconds to do an automatic internal cleaning cycle during long print jobs.


 *The cleaning cycle interval is more frequent as the imaging unit ages.*

Image Unit Print Count	Printer Pauses Every x Simplex Pages
0–5,119	48
5,120–20,479	32
20,480–25,599	20
25,600–30,720+	16

Cleaning Schedule

This item needs cleaning...	After...	By...
Printer exterior	Every month, or as necessary	User
Density sensor	ADC SENSOR DUSTINESS WARNING appears in the message window.	

What cleaning materials should I use?



Attention

Do not vacuum the printer; vacuuming could cause static electricity to build up and damage sensors.

Make sure any parts removed during cleaning are replaced before you plug in the printer.

Use	Avoid
Exterior	
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 outside of the printer.	Sharp or rough implements (such as wire or plastic cleaning pads).
Mild neutral detergent to clean the outside of the printer if stains remain. (Always test any cleaning solution on a small area of your printer to check the solution's performance).	Abrasive or corrosive solutions that contain solvents (such as alcohol or benzine); aerosol or pump-sprayed cleaners.
Interior	
A soft dry cloth or cotton swab to clean the density sensor.	Vacuuming. Pulling media too hard and tearing it. Sharp implements (such as tweezers)

WARNING!

Turn off the printer, unplug the power cord, and disconnect all interface cables before cleaning.

ACHTUNG! Ziehen Sie den Netzstecker aus der Steckdose bevor Sie den Drucker reinigen.

- Be careful when cleaning the inside or removing paper jams, as the fuser unit and other internal parts may become very hot. Either clean the density sensor before use, or allow time after unplugging the printer to allow the fuser unit to cool down.

⚠ Attention

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



WARNING!

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

ACHTUNG! Verhüten Sie kein Wasser oder andere Flüssigkeiten auf dem Drucker, da das Gerät sonst beschädigt wird oder die Gefahr eines elektrischen Schlages besteht.

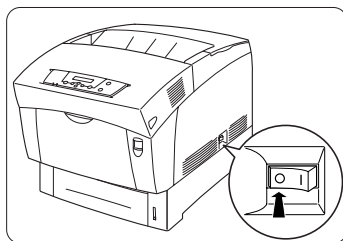
- Never spray cleaning solution directly on the printer's surface; the spray could penetrate through the air vents of the printer and damage the internal circuits.
- Be careful when cleaning the inside or removing paper jams, as the fuser assembly and other internal parts become very hot. Open the front cover, and let the interior of the printer cool before handling the inside of the printer.
- Read all caution and warning labels carefully, making sure to follow any instructions contained in them. These labels are located on the printer's interior.

For printer storing and shipping instructions, refer to www.minolta-qms.com.

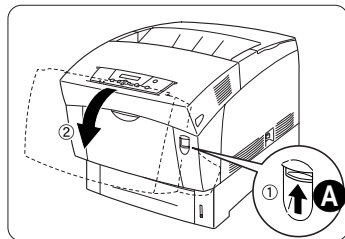
How do I clean the density sensor?

The printer's transfer roller contains a density sensor to detect the density of media passing by. When the sensor gets dirty or dusty, print quality will degrade. When that happens

- 1 Turn off the printer.

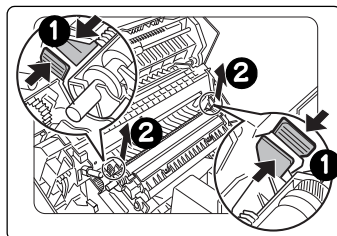


- 2 Open the front cover (button A)
①, ②.



- 3 Grasp the two tabs ① on the transfer roller to lift it straight up ② out of the printer.

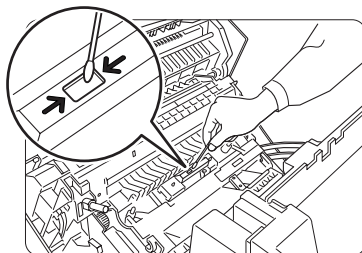
Be careful not to spill toner into the printer.



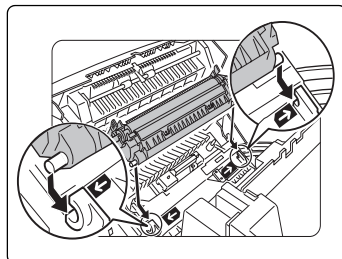
⚠ Attention

Do not touch or scratch the black surface of the transfer roller or the density sensor window.

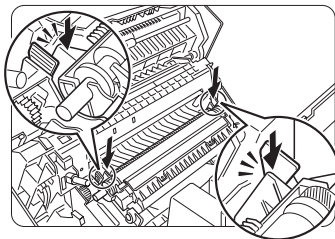
- 4 With a clean, dry cloth or cotton swab, gently wipe the density sensor.
- Do not use force to clean the sensor window.*



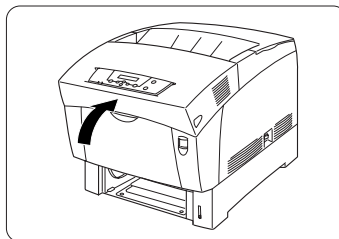
- 5 Replace the transfer roller by inserting the pins at both ends of the transfer roller into the U-shaped bearings inside the printer.



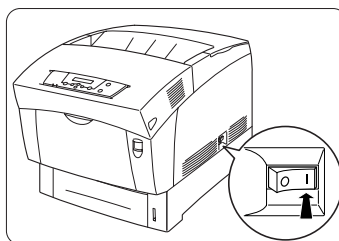
- 6** Push down on the two tabs until they click to lock the transfer roller cartridge into the printer.



- 7** Close the cover.



- 8** Turn on the printer.



Troubleshooting

4

PDF File Printing

Your printer has the ability to print PDF files directly just as it does for PostScript and PCL files. This can be a time-saving feature. Direct printing removes the need to open the file in an application, such as Acrobat Reader, then print the file via a PostScript or PCL driver. Your printer supports PDF version 1.3 and below. The PDF file can be sent to the printer using any method (lpr, ftp, etc.) that is normally used to print PostScript or PCL files.

Adjusting Memory Clients for PDF Printing

The unique structure of PDF files requires that you make some adjustments to your printer's default memory clients. All PDF files contain information at the end of the files that is needed to correctly format them in the printer. Because of this, the entire file must be spooled into the printer before it can be interpreted. In order to spool the entire job into the printer, the Host Input (Spool) memory client may need to be adjusted. To determine the required size for the Host Input memory client, you first need to estimate the maximum file size, add 10% to this number and this becomes your required Host Input memory size. In the event that you experience problems, you may want to increase the Host Input memory size further. The maximum size of PDF files which may be printed on the magicolor 3100 is determined by the amount of installed memory. Direct printing of complex or large PDF files may require additional memory (RAM) and/or a hard disk. We recommend a hard disk for optimum performance when printing large PDF files. Refer to the *Crown-Books* on how to adjust the memory clients.

Printing Preformatted Files Using Crownview

Your printer also provides a utility via the CrownView web page for printing PDF files directly from the host using the browser. Users will be presented with a Browse button that, when selected, will enable a file chooser on the host. Users then select the file that they want to send to the printer, and the file is transferred and printed.

Troubleshooting PDF Direct Printing from CrownView

If you are having problems printing large PDF files using direct printing or CrownView from a PC or UNIX, increase the PS Wait Timeout.

Printing large PDF files from your web browser with the MINOLTA-QMS CrownView feature may fail without any indication of an error. The job will appear to start normally, but then flush without printing. The CrownView screen will indicate that the file has printed.

To correct the problem, increase the amount of time allowed before the PS Wait Timer expires. The factory default setting for this timeout is 120 seconds. Doubling the value to 60 seconds in the Administration/Communications/Timeouts/PS Wait Timeout menu should correct most problems, or the value can be set to 0 seconds, which effectively makes the timeout period infinite.

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 large quantities of transparencies since this causes static.
You have the correct media type selected if you're printing on envelopes, glossy stock (set as Thick 2 or Thick 3), 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 media tray after 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 250-sheet capacity—jamming may occur if you allow media to accumulate more than 250 sheets at a time</i>).

Make sure that...	Avoid...
<p>You load the media (for single-sided pages) printing-side up in the 500-sheet media trays or printing-side down in the multi-purpose tray (<i>many manufacturers place an arrow on the end of the wrapper to indicate the printing side—if you can't determine which side of the media to print on, remove the media from the tray, rotate the stack a half-turn, turn the stack over, and then place it back in the tray</i>).</p>	<p>Buildup of transparencies in the output tray (<i>buildup causes static electricity</i>).</p>

Automatic Jam Recovery

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

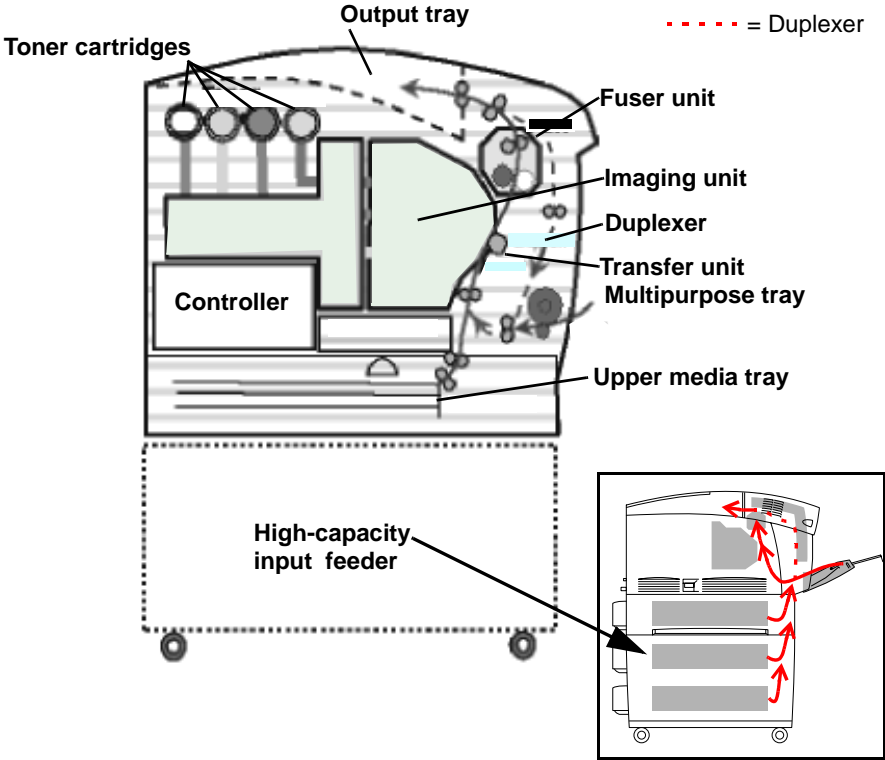


For automatic jam recovery to work, it is necessary to leave the printer turned on when you remove the jammed media. After the jam is cleared, open and close the front door before printing. Printing will not resume until you do this.

Understanding the Media Path

Understanding the printer's media path will help you locate media jams. The media tray is located at the bottom front of the printer. The media is picked from the tray, passed under the imaging and transfer units, passed through

the fuser, and delivered via the paper exit unit to the media exit tray, which is the top of the printer.



Understanding Media Jam Status Messages

When a jam occurs, the message window on the control panel displays one of four messages: MEDIA JAM DUPLEX, MEDIA JAM FEED, MEDIA JAM FUSER, or MEDIA JAM REGISTRATION. Frequent jams in any area indicate that area should be checked, repaired, or cleaned. Frequent jams may happen if you're using the wrong weight print media.

Message	Location of Jam	Access	Page Reference
MEDIA JAM DUPLEX	Duplex area	Button B	page 70

Message	Location of Jam	Access	Page Reference
MEDIA JAM FEED	Multipurpose tray	Multipurpose tray	page 71
	Tray 1	Upper media tray	page 72
	(Optional) Tray 2 or Tray 3	HCIF media tray(s)	page 73
	Output tray	Output tray	page 74
	A misfeed jam may be as simple as a sheet of media not being picked, or it may be that the media was picked but not fed properly.		
MEDIA JAM FUSER	Near fuser unit	Button A	page 75
MEDIA JAM REGISTRATION	The registration rollers below the imaging unit	Button A	page 75
MISMATCH JAM	Near the transparency sensor	Button A	page 78

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.
- To avoid damage to rollers, always remove jammed media gently.
- 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 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!

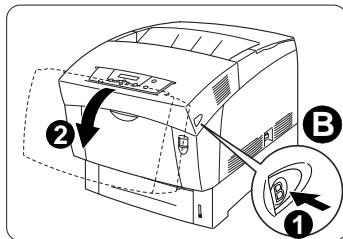
If you get toner in your eyes, wash it out immediately with cool water and consult a doctor. Material Safety Data Sheets (MSDS) information can be found at www.minolta-qms.com (click on the Answer Base).

ACHTUNG! Sollte Toner in Ihre Augen gelangen, die Augen unbedingt sofort mit kaltem Wasser ausspülen und einen Arzt aufsuchen. MSDS-Informationen (Material Safety Data Sheets; Datenblätter zur Materialsicherheit) finden Sie im Internet unter www.minolta-qms.com (klicken Sie auf "Answer Base").

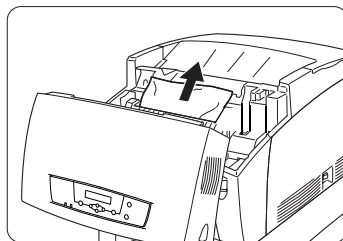
If, after clearing the media jam, the jam message in the control panel window persists, open and close the front cover. This should clear the jam message.

Media Jam Duplex

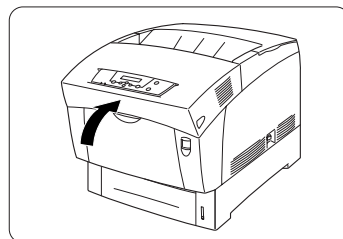
- 1 Open the front cover (button B)
①, ②.



- 2 Remove the jammed media.



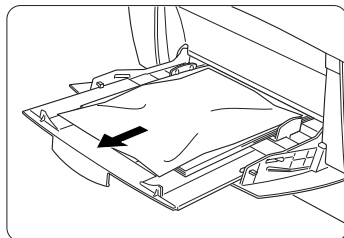
- 3 Close the front cover.



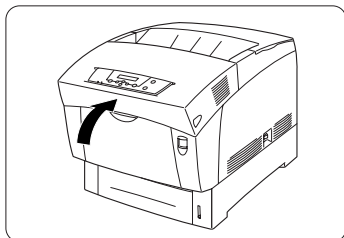
Media Jam Feed

Multipurpose Tray Jams

- 1 Remove the jammed media from the multipurpose tray.

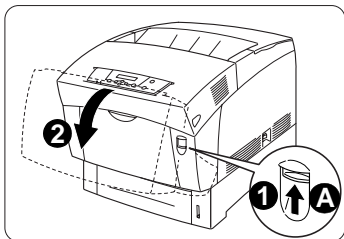


- 2 Close the multipurpose tray.

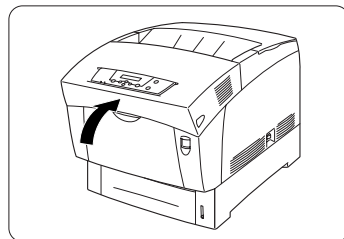


- 3 Open the front cover (button A)
①, ②.

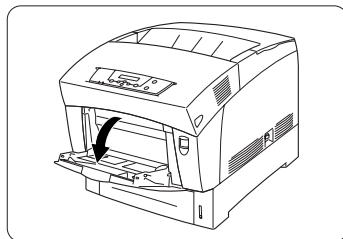
- 4 Check for media scraps inside the printer.



- 5 Close the front cover.

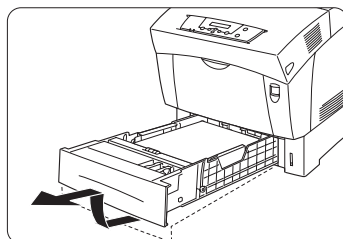


- 6** Open the multipurpose tray and replace its media.

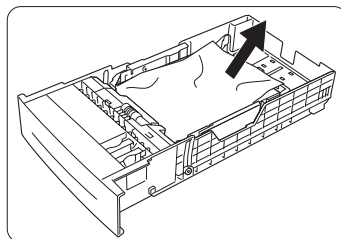


Upper Media Tray Jams

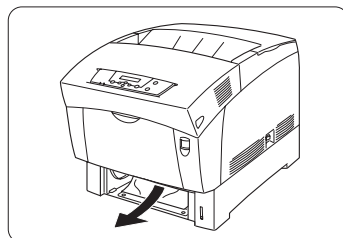
- 1** Remove the media tray.



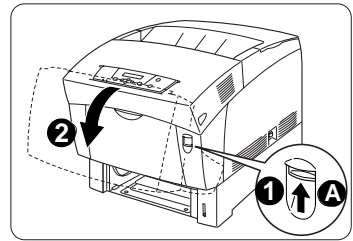
- 2** Pull out the jammed media.
Even up the front edges of the media currently in the tray.



- 3** Remove any remaining media from the printer.



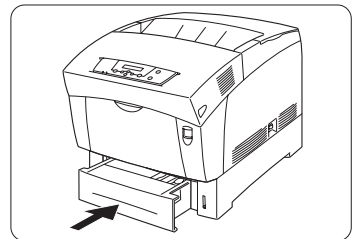
- 4 Open the front cover (button A ①, ②).
- 5 Check for any media scraps inside the printer.
- 6 Close the printer's cover.
- 7 Reinsert the media in the tray printing face up.



⚠ Attention

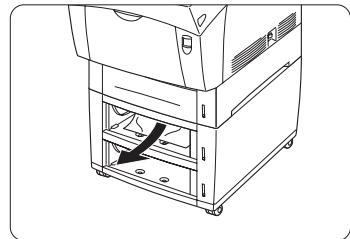
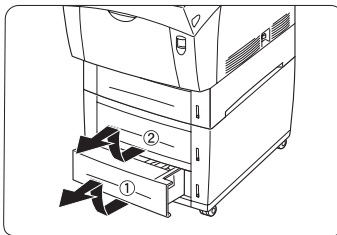
Make sure the media doesn't exceed the media limit mark. Check to see if the media width guides are correct.

- 8 Slide the tray(s) back into the printer.
The media jam display is cleared.

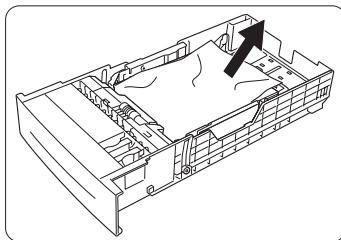


HCIF Media Tray(s) Jams 🎥

- 1 Remove the media tray(s) and pull out the jammed media.

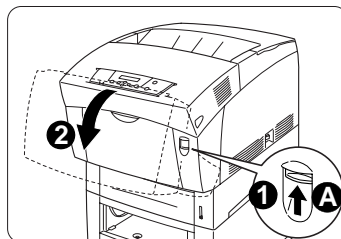


- 2 Pull out the jammed media in the tray(s).



- 3 Open the front cover (button A) ①, ②.

- 4 Check for any media scraps inside the printer.



- 5 Close the front cover.

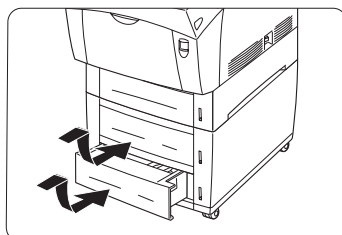
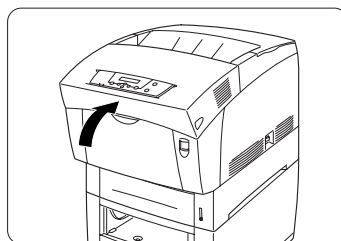
- 6 Reinsert the media in the tray.

Even up the front edges of the media currently in the tray.

Ensure that the media is lying flat in the tray(s).

Make sure the media doesn't exceed the media limit mark. Check to see if the media width guides are correct.

- 7 Slide the tray(s) back into the printer.



Output Tray Jams

Remove jammed media from the output tray by gently pulling it toward you. If, after clearing the media jam, the jam message in the control panel window persists, open and close the front cover. This should clear the jam message.

Media Jam Fuser

The MEDIA JAM FUSER message covers both the jams near the imaging unit and the fuser unit.

WARNING!

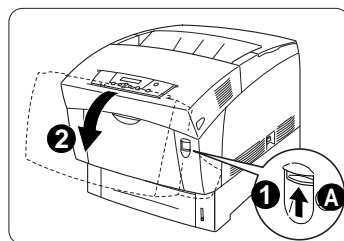
The fuser unit is hot! Do not remove a jam in this area until the fuser unit cools.



ACHTUNG! Die Fixiereinheit wird sehr heiß! Bitte achten Sie darauf, daß sie diese einige Zeit abkühlen lassen, bevor Sie einen Papierstau beseitigen.

Near Imaging Unit

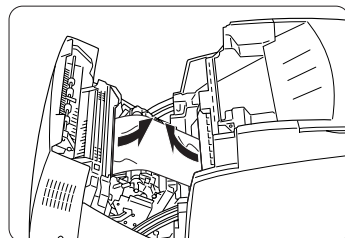
- 1 Open the front cover (button A)
①, ②.



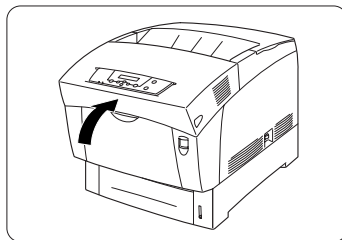
- 2 Remove the jammed media.
Remove any torn pieces of paper still in the printer.

Attention

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



- 3 Close the front cover.

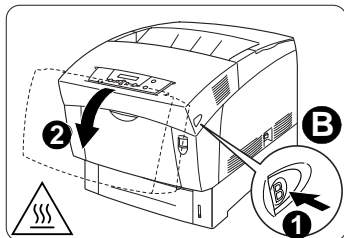


Near Fuser Unit

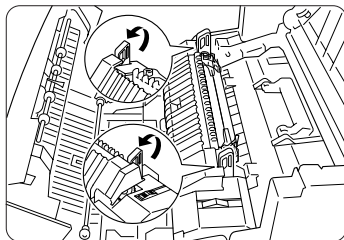


Media that hasn't fully passed through the fuser contains unfused toner that can dirty your hands, clothes, or other items. If you get toner on your hands, wash them in cool water and neutral detergent. If you get toner on your clothes, lightly dust them off as much as possible. If toner remains on your clothes, use cool, not hot water, to rinse the toner off, provided your clothing is washable.

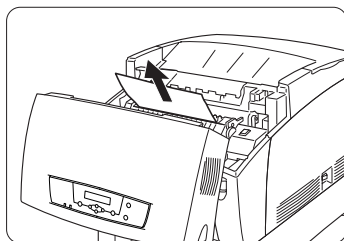
- 1 Open the front cover (button B)
①, ②.



- 2 Lift both fuser unit levers.

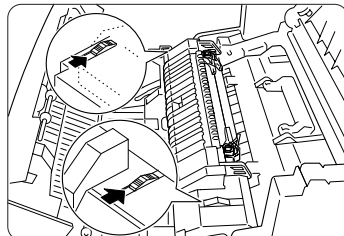


- 3 Remove the jammed media by pulling it toward you.

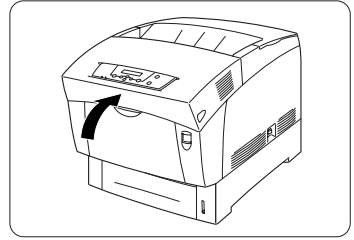


- 4 Push both fuser unit levers completely back.

If the jammed media was not visible or if you had difficulty removing it, repeat the instructions in "Near Imaging Unit" on page 75.



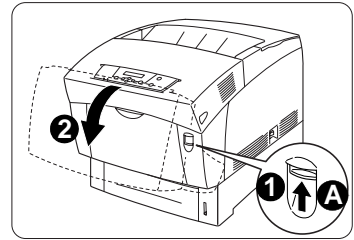
- 5 Close the front cover.



Media Jam Registration

A registration jam occurs when the media does not pass through the registration sensor in the registration roller unit below the imaging unit.

- 1 Open the front cover (button A)
①, ②.



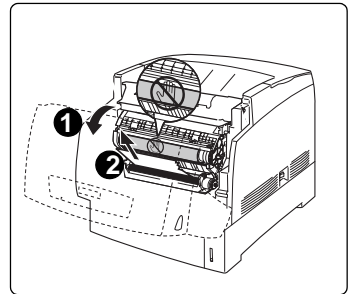
Locate the registration rollers (one is black and one is metallic).

- 2 Remove the jammed media from the registration rollers ①.

Remove any torn pieces of paper still in the printer ②.

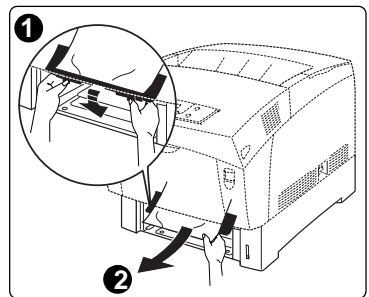
Attention

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



- 3 If the jam message is still displayed, remove each media tray.

- a Release the two hooks securing the chute assembly ① inside the tray compartment.
b Turn the chute assembly 90 degrees toward the rear of the printer.
c Remove the jammed media ②.



- d Close the chute assembly.
 - e Repeat for all media trays, if necessary.
- 6 Slide the tray(s) back into the printer.
 - 7 Close the front cover.

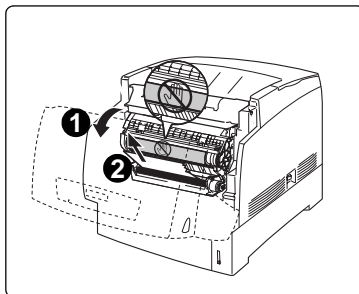
Mismatch Jam

A **MISMATCH JAM** may occur if the transparency sensor in the printer detects the wrong media type.

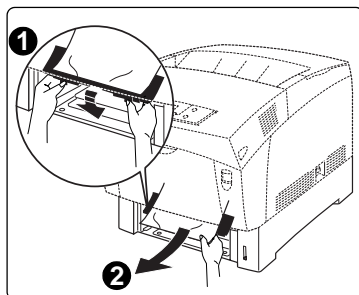
- 1 Open the front cover (button A) ①, ②.
- 2 Remove the jammed media.
Remove any torn pieces of media still in the printer.

Attention

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



- 3 If the jam message is still displayed, slide open and remove each media tray.
 - a Release the two hooks securing the chute assembly ① inside the tray compartment.
 - b Turn the chute assembly 90 degrees toward the rear of the printer.
 - c Remove the jammed media ②.
 - d Close the chute assembly.
 - e Repeat for all media trays, if necessary.
- 6 Slide the tray(s) back into the printer.
- 7 Close the front cover.



Solving Problems

Media Jams and Media Transport Problems



Frequent jams in any area indicate that area should be checked, repaired, or cleaned. Repeated jams may also happen if you're using unsupported 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.
	Too much static electricity is present.	Do not fan large quantities of transparency media.
Printer pulls media from the wrong tray.	Selected tray is out of media, and tray chaining is activated.	Choose Off in the Operator Control/Chain Inpubins menu. Load media in the correct tray.
	Printer has not recognized a custom size in the MPT tray and pulls the media from the upper tray.	Set Custom Size in the Operator Control/Multipurpose Sz menu.
Media jam message stays on.	Front cover needs to be opened and closed again to reset the printer.	Open and close the printer's front cover again.
	Some media remains jammed in the printer.	Recheck the paper path and make sure you have removed all of the media jams.

Symptom	Cause	Solution
Media is jamming.	The wrong media tray is used.	Envelopes, labels, postcards, and Thick 3 can be printed only from the multipurpose tray.
	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.
	Warped or wrinkled media is loaded in the tray.	Remove the warped or wrinkled media and replace it with new media.
	The media is moist from humidity.	Remove the moist media and replace it with new, dry media.
	Unsupported media (wrong size, thickness, coating, type, etc.) is being used.	Use media that is approved for your printer. Refer to "What are the media types supported?" on page 33.
	The recommended transparency (OHP) or label paper is facing the wrong way in the tray.	Load the transparencies or labels according to the manufacturer's instructions.
	Coated transparency media has been used.	Use uncoated transparency media that is approved for your printer.
	Multiple sheets of transparency (OHP) media are collecting static electricity in the tray.	Remove the OHP media and load it in the tray one sheet at a time. Do not fan large quantities of transparencies before loading them.

Symptom	Cause	Solution
Media is jamming (Cont.).	Transparency (OHP) media being fed from the upper or optional trays is not feeding correctly.	Try loading about 100 pages of plain paper first in the tray to give more height to the transparency stack to reach the feed rollers.
Duplex unit jams.	The wrong media is being used.	Use media that is approved for your printer. Refer to “What are the media types supported?” on page 33.
		Plain paper and stock up to 28 lb bond (105 g/m ²) can be autoduplexed. For heavier weights, manual duplexing is required. To manually duplex, remove the media, flip it over, and reload it.
		We recommend not mixing media types in your media tray. For the exception, see “Transparency (OHP) media being fed from the upper or optional trays is not feeding correctly.” on page 81.
		Do not duplex envelopes, glossy stock heavier than 28 lb bond (105 g/m ²), labels, thick stock heavier than 28 lb bond (105 g/m ²), or transparencies.
	Media may still be jammed.	Recheck the paper path and make sure you have removed all of the media jams. Open and close the front door to reset the printer.
	If you are manually duplexing, media jams may occur if the printed sheet(s) reinserted are not entirely flat.	Remove the jammed media, then remove the media from the tray and flatten it out.

Other Problems

Symptom	Cause	Solution
Printer power is not on.	The power cord is not correctly plugged into the outlet.	Set the power switch off (O position), then remove the power cord from the outlet and plug it back in, then set it back to the on (I) position.
	The power switch has not been pressed.	Set the power switch to the on (I) position.
	The power switch is not correctly turned on (I position).	Set the power switch to the off (O) position, then set it back to the on (I) position.
	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 specifications listed in appendix A of the <i>User's Guide</i> .
"Printer is not responding" is displayed in the print monitor.	The printer is in energy-saving mode.	It takes a little time for printing to start if the printer is in energy-saving mode. You can change the number of minutes before the printer switches to power-saving mode in the Administration/Engine/Energy Saver menu. If you do not want to use this mode, disable it in the Administration/Engine/Energy Saver menu.
Printer takes too long to start when you are replacing the imaging unit.	The printer takes approximately 6 minutes to warm up when a new imaging unit is installed.	Wait. No action needed.

Symptom	Cause	Solution
Printer stops and displays the message INVALID IMAGING UNIT.	The printer has detected a nongenuine MINOLTA-QMS imaging unit.	To resume printing and to prevent permanent damage to your MINOLTA-QMS printer, replace the imaging unit with a genuine MINOLTA-QMS imaging unit. If you are using a genuine MINOLTA-QMS imaging unit and still receive this error, contact Support. Refer to the <i>Service & Support Guide</i> or www.minolta-qms.com/support .
Not all pages print.	The printer has the wrong kind of cable, or the printer is not configured for the correct cable and port.	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.
Printer resets or turns off frequently.	The power cord is not properly connected to the AC outlet.	Turn off the unit, confirm that the power cord is properly connected to the AC outlet, and turn the unit back on.
	A system error occurred.	Contact Technical Support with the error information. See the <i>Service & Support Guide</i> for support telephone numbers.
Printing takes too much time.	The printer is set to a slower printing (Thick Stock or Transparency media types).	It takes more time to print with special media types, such as Transparency or Thick 2. When using regular paper, make sure that the media type is set to Plain Paper in the driver.
	The printer is set to energy-saving mode.	It takes a little time for printing to start in energy-saving mode. If you do not want to use this mode, disable it.
	The printer memory is insufficient.	Add more memory.
	The job is very complex.	Wait. No action needed.

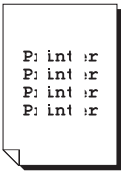

Symptom	Cause	Solution
You are experiencing problems duplexing.	Media or settings are not correct.	Make sure that you are using the correct media. Do not duplex envelopes, glossy stock heavier than 28 lb bond (105 g/m ²), labels, postcards, thick stock heavier than 28 lb bond (105 g/m ²), or transparencies.
		Make sure that your document has more than one page.
		In the printer driver (Properties/Layout/Duplex Options), choose Short Edge (flipped as on a clipboard) or Long Edge (flipped as in a loose-leaf notebook). Make sure that you are using correct media.
The printing is on the wrong side of the media.	The printer is set to autoduplexing and you are trying to duplex manually.	If you are manually duplexing, in the printer driver (Properties/Layout) choose Simplex.
	The media is not installed correctly.	From the upper or optional trays, load the media printing-side up, from the multi-purpose tray, load the media printing-side down.
Characters print incorrectly.	The fonts are set incorrectly on your printer driver.	Check your driver (Properties/Fonts tab) to make sure you are using the correct fonts (such as TrueType fonts).
You hear unusual noises.	The printer is not level.	Put the printer on a flat, hard, level surface not to exceed $\pm 5^\circ$ slant in any direction.
	The media tray is not installed correctly.	Remove the media tray that you are printing from and reinsert it completely into the printer.
	There is a foreign object stuck inside the printer.	Turn off the printer and remove the object. If you cannot remove it, contact Service. See the <i>Service & Support Guide</i> for the office closest to you.


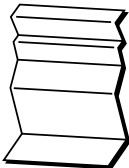
Symptom	Cause	Solution
The printer pauses periodically.	The image unit pauses to perform an automatic cleaning rotation after every page of one-page simplex jobs and pages longer than 14 inches (355.6 mm), and between pages of multipage jobs, depending on the amount of processing required between pages.	Wait. Printer automatically resumes. <i>This process is provided to ensure reliable printer operation with optimum output quality. See "Internal Cleaning Cycles" on page 58 for more detailed information.</i>
The printer goes into power-saving mode.	The printer automatically switches to power-saving mode after one hour of inactivity (default).	You can change the number of minutes before the printer switches to power-saving mode in the Administration/Engine/Energy Saver menu.
You are unable to access Accounting in CrownView.	The printer is not turned on and IDLE.	Make sure the printer is on and IDLE appears in the control panel. For more information about CrownView, refer to the <i>CrownBooks</i> .
	You do not have a hard disk installed.	Install a hard disk.


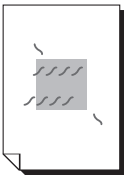
Symptom	Cause	Solution
The printer is not receiving data from the computer. <i>(The Data indicator doesn't blink after a file is sent.)</i>	The printer is not on line.	Put the printer on line and verify that the message window displays IDLE .
	The emulation has been changed from ESP to an emulation that doesn't match the file you are sending.	Print a status page. For information about the ESP mode, refer to the <i>CrownBooks</i> .
	The port setting is incorrect.	For Ethernet or parallel connections, set the port to Enabled.
	When the parallel cable is set to Interactive (the default), and the parallel cable is unplugged then plugged back in, communication was lost.	Set the parallel cable to Non-Interactive mode in the Administration/Communications/Parallel/Mode menu.
Too many status pages print.	Your printer is set to print the multiple-page Advanced Status Page instead of the one-page Standard Status Page.	Select the type of status page through the Administration/Special Pages/Status Page Type menu on the control panel.
After the TONER LOW message appears and you have replaced the toner cartridge, the CrownView statistics page still displays 0%.	<p>The statistics need to be reset.</p> <p>After replacing toner, you must print several pages before the printer recognizes the "new" toner cartridge.</p>	<p>After replacing the toner, reset the statistics on the control panel (Operator Control/Consumables/Item Replaced/X) menu.</p> <p>Print several pages.</p>




Symptom	Cause	Solution
Nothing is printed.	There is a Keypad Locked, a media jam, or other message on the control panel.	Handle according to the message displayed. For example, if the keypad is locked, check to see if the printer's in Network Mode and someone else has opened a telnet session to it.
	The driver is not set correctly.	Select the proper driver media setting.
	The imaging unit is old or damaged.	Remove the imaging unit and check for damage. If necessary, replace it.
	The media is moist from humidity.	Adjust the humidity for paper storage. Remove the moist media and replace it with new, dry media.
	The AC outlet's voltage or frequency that does not match the printer specifications.	Use a power source with the proper specifications.
	Several sheets are being fed at the same time.	Remove the media from the tray and check for static electricity. Fan plain paper and other media (but do not fan large amounts of transparencies), and replace it in the tray.
	Media is not set properly in the media tray(s).	Remove the media, tap it to straighten it out, return it to the media tray, and realign the media guides.
	Media is jammed inside the printer.	Remove any jammed media from the printer.
	There is not enough memory or your PS Wait Timeout is incorrect to print directly from PDF.	Increase your memory and the PS Wait Timeout. See "PDF File Printing" on page 65.



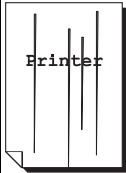
Printing Quality



Symptom	Cause	Solution
Vertical white lines appear in image. 	The imaging unit, transfer roller, or fuser unit are misinstalled, old, or damaged.	Confirm the proper installation of the items, and check them for damage. If necessary, replace them.
Image is too light; there is low image density. 	The media is moist from humidity.	Remove the moist media and replace with new, dry media.
	One or more toner cartridges are defective.	Remove the toner cartridges and check for damage. If necessary, replace them.
	The imaging unit is old or damaged.	Remove the imaging unit and check for damage. If necessary, replace it.
	Media type may be set incorrectly.	Envelopes, glossy stock (set as Thick 2 or Thick 3), labels, and thick stock have to be set in the correct mode. See "Media" on page 32.
	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 proper specifications.
	Driver settings are not correct.	Confirm that you are using the correct driver settings.
	Media is the wrong size.	Check with your documentation to confirm the correct media size and type.
	Unsupported media is being used.	Check www.minolta-qms.com/support (click on Answer Base) for currently approved media. To order approved media, go to www.q-shop.com .

Symptom	Cause	Solution
Irregular print or mottled image appears. 	The media is moist from humidity or having water spilled on the paper supply.	Remove the moist media and replace it with new, dry media.
	The transfer roller or fuser unit may be misinstalled or defective.	Confirm the proper installation of the items, and check them for damage. If necessary, replace them.
	Unsupported media is being used.	Use MINOLTA-QMS-approved media. See "Media" on page 32. Check www.minolta-qms.com/support (click on Answer Base) for currently approved media. To order approved media, go to www.q-shop.com .
Media is wrinkled. 	The media is moist from humidity or having water spilled on the paper supply.	Remove the moist media and replace it with new, dry media.
	The transfer roller or fuser unit may be misinstalled or defective.	Confirm the proper installation of the items, and check them for damage. If necessary, replace them.
	Unsupported media is being used.	Use MINOLTA-QMS-approved media. See "Media" on page 32. Check www.minolta-qms.com/support (click on Answer Base) for currently approved media. To order approved media, go to www.q-shop.com .

Symptom	Cause	Solution
Blotted printing occurs.	The media is moist from humidity or having water spilled on the paper supply.	Remove the moist media and replace it with new, dry media.
	The transfer roller or fuser unit may be misinstalled or defective.	Confirm the proper installation of the items, and check them for damage. If necessary, replace them.
	Unsupported media is being used.	Use MINOLTA-QMS-approved media. See "Media" on page 32. Check www.minolta-qms.com/support (click on Answer Base) for currently approved media. To order approved media, go to www.q-shop.com .
	The media is too dry.	Remove the dry media and replace it with new media. Store media wrapped and in a relative humidity of at least 30%.
	The transfer roller or fuser unit may be misinstalled or defective.	Confirm the proper installation of the items, and check them for damage. If necessary, replace them.
	Unsupported media is being used.	Use MINOLTA-QMS-approved media. See "Media" on page 32. Check www.minolta-qms.com/support (click on Answer Base) for currently approved media. To order approved media, go to www.q-shop.com .

Symptom	Cause	Solution
Smudges or shadows occur around images with dense black printing. 	The media is too dry.	Remove the dry media and replace it with new media. Store media wrapped and in a relative humidity of at least 30%.
	The transfer roller or fuser unit may be misinstalled or defective.	Confirm the proper installation of the items, and check them for damage. If necessary, replace them.
	Unsupported media is being used.	Use MINOLTA-QMS-approved media. See "Media" on page 32. Check www.minolta-qms.com/support (click on Answer Base) for currently approved media. To order approved media, go to www.q-shop.com .
Entire sheet is printed in black or color. 	The imaging unit is old or damaged.	Remove the imaging unit and check for damage. If necessary, replace it.
	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 proper specifications.
The image comes off when rubbed. 	The media is moist from humidity.	Remove the moist media and replace it with new, dry media.
	Unsupported media is being used.	Use MINOLTA-QMS-approved media. See "Media" on page 32. Check www.minolta-qms.com/support (click on Answer Base) for currently approved media. To order approved media, go to www.q-shop.com .
	The media type may be incorrectly set.	Envelopes, glossy stock (set as Thick 2 or Thick 3), labels, and thick stock have to be set in one of the Thick Stock modes.

Symptom	Cause	Solution
<p>Image defects or smudges occur in same place on every page.</p> 	The imaging unit, transfer roller, or fuser unit is old or defective.	Remove the items and check for damage. If necessary, replace them.
	The media path is dusty or dirty.	Print several blank sheets of media.
<p>Abnormal areas (black or white spots) appear.</p> 	The imaging unit may be old or damaged.	Remove the imaging unit, and check for damage. If necessary, replace it.
	Unsupported media is being used.	Use MINOLTA-QMS-approved media. See “Media” on page 32. Check www.minolta-qms.com/support (click on Answer Base) for currently approved media. To order approved media, go to www.q-shop.com .
<p>Vertical streaking appears.</p> 	The imaging unit, transfer roller, or fusing unit may be misinstalled or defective.	Confirm the proper installation of the items, and check them for damage. If necessary, replace them.

Symptom	Cause	Solution
<p>Colors are not registering properly; colors are mixed or have page-to-page variation.</p> 	<p>The color registration or calibration is not correct.</p>	<p>At setup, and any time the printer is moved, adjust the side-to-side (scan direction) color registration. See “Color Registration” on page 140.</p>
<p>The image is offset or slanted.</p> 	<p>Media is not set properly in the media tray(s).</p>	<p>Remove the media, tap it to straighten it out, return it to the media tray, and realign the media guides.</p>
	<p>Unsupported media is being used.</p>	<p>Use MINOLTA-QMS-approved media. See “Media” on page 32 for a complete list of approved media. Check www.minolta-qms.com/support (click on Answer Base) for currently approved media. To order approved media, go to www.q-shop.com.</p>
	<p>Media is jammed inside the printer.</p>	<p>Remove any jammed media from the printer.</p>
	<p>The printer is not level.</p>	<p>Put the printer on a flat, hard, level surface not to exceed $\pm 5^\circ$ slant.</p>
	<p>The paper path is not clean.</p>	<p>Remove any tape or adhesive that may have become lodged in the paper path.</p>
	<p>Transparency (OHP) media being fed from the upper or optional trays is not feeding correctly.</p>	<p>Try loading about 100 pages of plain paper first in the tray to give more height to the transparency stack to reach the feed rollers.</p>

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. Refer to the *CrownBooks* for further information.



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

Status and Error Messages

This message...	means...	do this...
<COLOR> TONER EMPTY	The <COLOR> toner cartridge is empty.	Replace the toner cartridge. Open and close the printer's front door. Reset the consumables count in the Operator Control/Consumables/ Item Replaced/ <COLOR> Toner menu.
<COLOR> TONER LOW	The <COLOR> toner cartridge is low. Printing continues even though the warning appears. Approximately 100 letter/A4 pages (at 5% coverage) after detecting that toner in a cartridge is low, the printer displays <COLOR> TONER EMPTY in the message window, and the printer stops.	The color gradually fades, so replace the toner cartridge as soon as possible. Do not send very large print jobs after the TONER LOW message is displayed. Reset the consumables count in the Operator Control/Consumables/ Item Replaced/ <COLOR> Toner menu.
<COLOR> TONER MISSING	The <COLOR> toner cartridge is not installed properly.	Install the indicated toner cartridge.

This message...	means...	do this...
<N> CCITT <ERROR>	The specified number <N> of a CCITT message <ERROR> has been reported.	Place a service call 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.
<X> LIFE LOW	The indicated item <X> is low, such as the fuser or transfer unit.	Replace the indicated item. If necessary, reset the consumables count in the Operator Control/Consumables/Item Replaced menu. <i>The imaging unit will automatically reset its consumables count.</i>
<X> MISSING	The indicated item <X> is missing, such as the fuser or transfer unit.	Replace the indicated item. If necessary, reset the consumables count in the Operator Control/Consumables/Item Replaced menu. <i>The imaging unit will automatically reset its consumables count.</i>
ACC DISABLED	The accounting option selected is now in effect.	No action needed.
ACC ENABLED		

This message...	means...	do this...
<p>ACC FILE 95% FULL</p> <p>ACC FILE 90% FULL</p> <p>ACC FILE 85% FULL</p> <p>ACC FILE 80% FULL</p>	<p>The Job Accounting File is 80, 85, 90, or 95% full.</p>	<p>This message should be taken care of immediately because it may be masking another problem.</p> <p>Once the accounting message is cleared, can you see IDLE? If IDLE is not there, you will see another error message displayed. Attend to the message that appears.</p> <p>If you want accounting enabled, copy the job accounting and paper accounting files to floppy disk(s), or transfer them to your host computer using ftp (if available). Then reset the accounting files so that new jobs can be accepted. If you don't want to use accounting, you can disable it.</p>
<p>ACC FILES GOT REMOVED</p>	<p>The accounting option is disabled and the accounting files are empty. After a reset, the files are removed. This prevents you from wasting disk space with empty accounting files.</p>	<p>No action needed.</p>

This message...	means...	do this...
ACC FILES NOT EMPTY SHRUNK TO %D	An attempt to reduce the size of the accounting files has been made unsuccessfully because the size of files is bigger than the space required.	Reset the accounting files.
ACC <X> FILE FULL	The job or paper accounting file is full (<X> identifies the file).	<p>This message should be taken care of immediately because it may be masking another problem.</p> <p>If you want accounting enabled, copy the job accounting and paper accounting files to floppy disk(s), or transfer them to your host computer using ftp (if available). Then reset the accounting files so that new jobs can be accepted. If you don't want to use accounting, you can disable it.</p>
ACC_GETSTATUSREC; CODE=%D, RESETTING ACC TO INITIAL STATE	The accounting files have been reset.	No action needed.
ADJUST <INPUT> BIN	The <INPUT> (specified tray) is not inserted correctly.	Adjust the tray.
CALIBRATING	The printer is performing an automatic cleaning rotation.	No action needed.

This message...	means...	do this...
CANCEL <N>	One or more of the print jobs <N> in the print queue are being canceled.	Press Select for all jobs with a printing, interpreting, spooled, or terminating status to be completely removed from the system.
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.
CMM ERROR <X>	The color profile requested is not on the printer.	Install the correct CMM profile or request another CMM profile from the application.
CREATED FILE	The accounting file has been created.	No action needed.
CREATING XXXXXXXXXXXXXX FILE, WAIT...	The specified accounting file is created when accounting is enabled and the files are not in existence or these files are created following a Reset Accounting (XXXXXXXXXXXXXX represents the Job Accounting or Paper Accounting file).	Wait. No other action needed.
ADC SENSOR DUSTINESS <X>	The Automatic Density Control (ADC) sensor is dusty and an error or warning has been indicated.	Clean the density sensor. See "How do I clean the density sensor?" on page 60.

This message...	means...	do this...
DISK ERROR	This is an internal or external hard disk error. For example, when both an internal hard disk and Jaz drive are installed, %disk1% Disk Status shows 0 (zero) K for the Jaz drive size, preventing backup of the hard disk to the Jaz drive.	In order to back up the hard disk contents to a Jaz drive, you must increase the Disk Cache manually to at least 1 MB. For more information about increasing the memory in the Disk Cache, refer to the <i>CrownBooks</i> .
END JOB	The Cancel key has been pressed and the End Job option selected.	Press Select to provide an end-of-job indicator for a print job that does not have one.
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.

This message...	means...	do this...
EXTENDED ACC FILE SIZE BY <%D> KB	The <%D> (size of the non-empty accounting file) has been increased successfully.	No action needed.
FRONT COVER OPEN	The cover is open and must be closed.	Close the cover.
FUSER LIFE LOW	The fuser unit life is low.	Replace the fuser unit and media feed roller. Reset the consumables count in the Operator Control/Consumables/Item Replaced/Fuser menu.
FUSER UNIT MISSING	The fuser is not fully seated.	Make sure the fuser is fully seated.
IDLE	The printer is on line, but no jobs are in process.	No action needed.
IMAGING UNIT LIFE LOW	The imaging unit life is low.	Replace the imaging unit. <i>The imaging unit will automatically reset its consumables count.</i>
IMAGING UNIT MISSING	The imaging unit is missing.	Make sure that the imaging unit is correctly installed.
INITIALIZING	The printer is initializing.	Wait. No other action needed.
	The printer is warming up and getting ready to go on line.	Wait. No other action needed.
INVALID <X>	The item <X> is not valid, such as disk selected or paper information.	Make sure you are inputting or choosing the valid information or value.

This message...	means...	do this...
INVALID IMAGING UNIT	The printer has detected a nongenuine MINOLTA-QMS imaging unit.	To resume printing and to prevent permanent damage to your MINOLTA-QMS printer, replace the imaging unit with a genuine MINOLTA-QMS imaging unit. If you are using a genuine MINOLTA-QMS imaging unit and still receive this error, contact Support. Refer to the <i>Service & Support Guide</i> or check www.minolta-qms.com/support .
MEDIA JAM DUPLEX	Media has jammed in the duplexer.	Locate and remove the jam. Open and close the front door to reset the printer.
MEDIA JAM FEED	Media has jammed while being pulled from the specified tray.	
MEDIA JAM FUSER	Media has jammed leaving the fuser area.	
MEDIA JAM REGISTRATION	Media has jammed in front of the imaging unit.	
MEDIA TYPE MISMATCH	The media detected in the tray doesn't match the media size or type setting.	Change the media in the tray or change the media size or type setting.
MISMATCH JAM	Media has jammed near the transparency sensor.	Locate and remove the jam. Open and close the front door to reset the printer.

This message...	means...	do this...
OUTPUT BIN FULL	The media has exceeded the limit (such as over 250 sheets of 20 lb [75 g/ m ²] bond) in the output bin.	Remove the media from the output bin.
PRINTING STATUS	A status page is printing.	Wait until after the status page prints and the message clears.
PUT <SIZE> PAPER IN <ANY> BIN	The Operator Control/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 <ANY> is the empty tray.	Refill the tray with the specified size media.
PUT <TYPE MEDIA> IN <INPUT> BIN	Operator Control/Chain Inputbins is set to On and a chained tray is empty.	Refill the tray with the specified type media.
PUT <X> IN INPUT <Y>	The <X> specified media is not in the input tray <Y>.	Refill the tray with the specified type media.
REPLACE <X>	The specified item <X> needs to be replaced, such as the fuser unit, the transfer unit, and the imaging unit.	Replace the specified item.
RESETTING ACCOUNTING	The reset accounting operation is in process.	Wait. No other action needed.

This message...	means...	do this...
SYS UPDATE ERROR <X>	The indicated error <X> has been reported.	Verify the update file and send it again or check with www.minolta-qms.com/ support and click on the Answer Base for the latest code update.
TRANSFER UNIT MISSING	The transfer unit isn't installed correctly.	Remove and reinstall the transfer unit.
WAITING FOR IDLE	An active job is in process. Access to the menu is not allowed until the job is finished.	Wait until the print job is finished and the printer goes idle.
WARMING UP	The printer is warming	Wait. No other action needed.

Service Messages

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.

Service calls should be placed to the vendor from whom you purchased the printer. If you cannot get service from your vendor, see the *Service & Support Guide* for additional contact information.

This service message...	means...	do this...
CALL FOR SERVICE <X>	An error has been detected with the item indicated <X> in the service message.	Reboot the printer. This often clears the service message indicator, and printer operation can resume. If the condition persists, contact your local vendor or check the <i>Service & Support Guide</i> for information on MINOLTA-QMS-authorized service providers.

HP-GL Error Codes and PCL Error Codes

The following tables list error codes that could appear on the printer message window when running the HP-GL, PCL or PCLXL emulation.

HP-GL	
Error Code	Description
0	Not enough memory for job.
1	Too many transformations.
2	Math error.
3	Job aborted.
4	Instruction not recognized.
5	Wrong number of parameters.
6	Out of range parameter, or illegal character.
7	Not used.
8	Unknown character set.
9	Position overflow.
10	Buffer overflow.
11	Not used.

PCL	
Error Code	Description
0	Not enough memory for job.
1	State lost.
2	Math error.
3	Job aborted.
4	Out of memory for macros.
5	Disk full. Cannot store fonts.
6–13	Internal error 1–8.

PCLXL	
Error Code	Description
0	Not enough memory for job.
1	Math error.
2–7	Internal error 1–6

PostScript Errors

If your printer is having trouble printing when using PostScript emulation, you should turn on the Error Handler in the control panel menu. Error Handler is a diagnostic tool that identifies PostScript errors encountered during a print job.

Menu	Administration/Startup Options/Do Error Handler
Choices	Yes—Load the Error Handler on reboot. No—Don't load the Error Handler on reboot.
Default	No
Notes	Refer to the <i>PostScript Language Reference Manual Third Edition</i> (Adobe Systems Incorporated, Reading, PA: Addison-Wesley, 1999, ISBN 0-201-37922-8) for information on PostScript errors. You must reboot the printer after turning on the error handler for it to take effect.

Additional Assistance

If you've followed all of the instructions in this guide and still have problems you can't solve, check our Answer Base at www.minolta-qms.com/support for a solution. You can also 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

5

Introduction

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.

Attention

Use of accessories not manufactured/supported by MINOLTA-QMS is not supported by your printer and will void your warranty.

This chapter provides information about the following accessories. Contact your local vendor or www.minolta-qms.com for purchase information.

BuzzBox	Via parallel connection for 100, 120, and 220 volts
Dual In-Line Memory Modules (DIMMs) (two available slots)	Additional memory must be 32, 64, 128, or 256 MB PC-100 Compliant SDRAM DIMMs, up to a maximum of 512 MB.
Emulations, Fonts, Forms, and Other Software	<ul style="list-style-type: none">■ ImageServer■ LN03 Plus■ VMS Host Software■ CGM■ Kanji Font Internal IDE Hard Disk Drive■ QFORM■ PlanetPress (forms-creation utility)■ Fonts
High-capacity Input Feeder (HCIF)	With two 500-sheet media trays
Interfaces and Daughterboards	<ul style="list-style-type: none">■ Crown for DECnet-TCP/IP (equipped with 10BaseT)■ CrownNet for Ethernet 10BaseT/100BaseTX (equipped with RJ45 connector)■ CrownNet for Token-Ring (equipped with STP and UTP connectors)■ SCSI Interface
Internal IDE Hard Disk Drive	Optional

Media Tray, Standard Upper 250 Sheet	Purchasing extra trays may be convenient when changing media formats and/or when media qualities vary.
Media Tray, HCIF 500 Sheet	
SC-215 Color Convenience Copier	Optional Automatic Document Feeder (ADF) also available.
Time-of-Day Clock	Optional
Tray Cover	For the upper and HCIF trays

Use of consumables not manufactured by MINOLTA-QMS or use of non-supported print media 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 and/or accessories, 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.

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.

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?

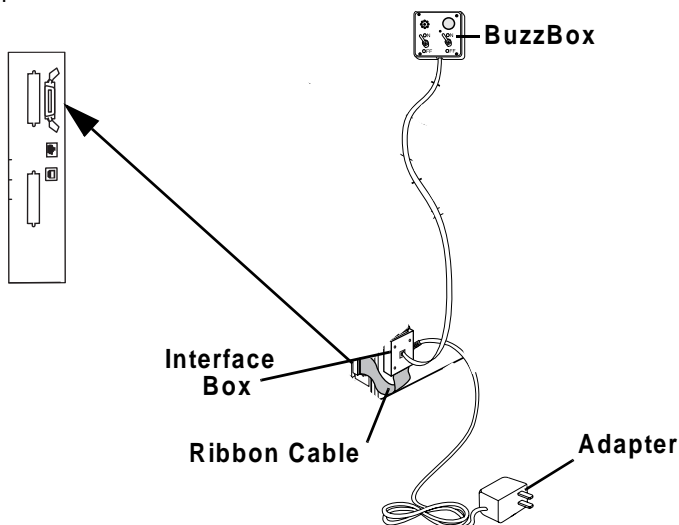
The BuzzBox kit contains the following items:

- BuzzBox
- Interface box
- RJ-11 cable
- Power adapter
- Velcro® attachment

For further assistance or information, call your local vendor. See the *Service & Support Guide* for locations and telephone numbers.

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 RJ-11 cable to connect the 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 BuzzBox ribbon cable to stretch or twist.
 - 5 Use the Velcro® attachment 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 adapter 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 the BuzzBox

- When the BuzzBox lights or buzzes, check the printer message window to find out what has interrupted printing. See "Status, Error, and Service Messages" on page 94 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.

Dual In-Line Memory Modules (DIMMs)

Dual in-line memory modules (or DIMMs) are compact circuit boards with surface-mount memory chips.

Your magicolor 3100 printer comes with 256 MB SDRAM printer memory.

However, you can upgrade the magicolor 3100 to a maximum of 512 MB of RAM through the installation of additional DIMMs. Two DIMM slots are

available. Additional memory must be 64, 128, or 256 MB, PC-100 Compliant SDRAM DIMMs.

Additional memory allows you to download more fonts and increase the printer's buffer (area where data sent from the computer is stored while waiting to be printed). The amount of RAM installed in your printer governs which resolutions can be used with each media size.

You may also need additional memory (DIMMs) for the following:

- To print at maximum performance
- To print complex graphics or complex PostScript documents
- For increased collation performance
- For increased spooling performance

How Much Memory Do You Need?

Check the startup page to make sure the printer has enough RAM installed.

To allocate the default amount of memory to the memory clients, use the Memory/Quick Config menu to choose the correct resolution and paper size for your printing (refer to the *CrownBooks* for further information).



Quick Config is not displayed if a hard disk is installed; use Manual Config.

Basic Functionality

	Monochrome				Color			
	Simplex		Duplex		Simplex		Duplex	
Quality	S/Q	Fine	S/Q	Fine	S/Q	Fine	S/Q	Fine
Letter/ A4	256 MB							
Legal								
Notes:	S = Standard, Q = Quality							

Maximum Performance

	Monochrome				Color			
	Simplex		Duplex		Simplex		Duplex	
Quality	S/Q	Fine	S/Q	Fine	S/Q	Fine	S/Q	Fine
Letter/ A4	256 MB							256 MB
Legal								288 MB
Notes:	S = Standard, Q = Quality							

Installation

Attention

It's very important to protect the printer controller board and any associated circuit boards from electrostatic damage. Before performing this procedure, review the antistatic caution on page 109. In addition, always handle circuit boards by the edges only.

- 1 If you are not to the point when you are able to print an advanced status page (with the control panel's **Print Status?** button) yet, skip to step 2.

If you have previously installed your printer and have confirmed that it is printing, print an advanced status page in case you need to restore any current memory settings after the DIMM installation.



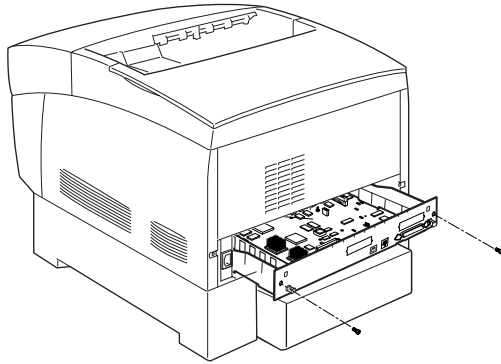
Installing DIMMs automatically restores memory defaults. If your memory settings are specific to your environment, print an advanced status page before installing DIMMs, so you can recover the current memory settings.

MINOLTA QMS		magicolor 3100	Status Page
		Printer Name : magicolor 3100	
Printer Identification			
System Release:	0.0.15		
Version:	3010.01, Revision1		
Process ID:	2831		
Faces Printed:	55		
Sheets Printed:	42		
Current Memory Configuration			
Location	Size		
Host Input:	3072 KB		
Display List:	19136 KB		
Font Cache:	1024 KB		
Heap:	5120 KB		
Framebuffer:	63760 KB		
Emulation:	64 KB		
HP Storage Pool:	3072 KB		
Emulation Temporary:	3072 KB		
Color Matching:	8192 KB		
Disk Cache:	28 KB		
System Use:	1024 KB		
Total Memory:	131072 KB		
PostScript® Emulation VM:	3248608		
VM allocated:	142272		
VM remaining:	3106336		
Printer Settings			
Compatibility Level:	Level 3		
Do Start-up Page:	Yes		
Do Error Handler:	No		
Do Sys/Start:	Yes		
Is Password 0?	Yes		
Long Edge Duplex:	Yes		
Short Edge Duplex:	No		
Default Chaining:	Yes		
Default Paper Tray:	Upper		
Default Output Tray:	Upper		
Number of Paper Trays:	2		
Page Stack Order:	Face Down		
Left Margin:	100		
Top Margin:	100		
Print Quality:	Standard		
Timeouts			
Wait:	120 sec.		
Job:	0 sec.		
Emulation:	5 sec.		
ESP:	3 sec.		
Communications Settings & Input Buffer Sizes			
Parallel:	ESP, 8 Bits, Interactive	15360 bytes	
IF 2:	CrownNet 6.02E*+, ESP, HW address: 02.00.0F.FF.FF.FF, Enabled	15360 bytes	
USB:	ESP	15360 bytes	
Share Spooling Space		3099648 bytes	

- 2 Turn off the printer and disconnect the power cord and all interface cables.

3 Remove the controller board from the printer.

Loosen two screws, one on each end of the I/O connector panel, and, using the tab on the lower side of the connector panel, pull the controller board from the printer.



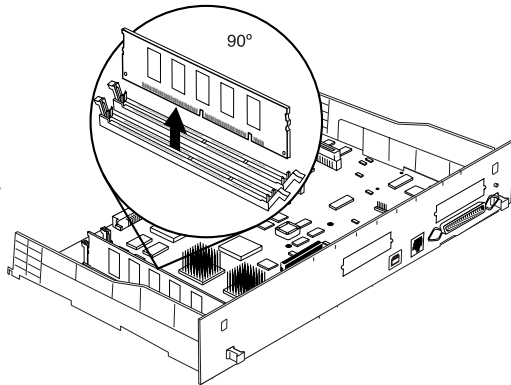
4 Position the controller board on a flat surface so the controller board lies flat and the I/O connector panel is facing you.



If you want to install more memory, you have to exchange one or more DIMMs for DIMMs with a greater memory capacity.

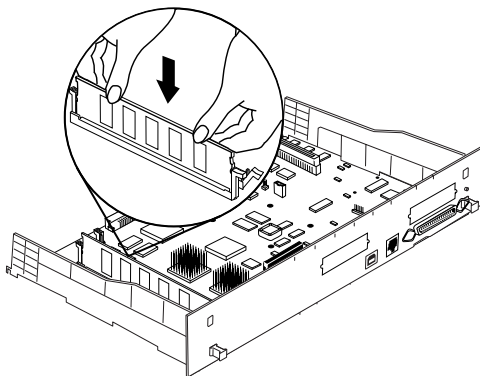
5 If you need to remove a DIMM before installing one, remove it as follows; otherwise, skip to step 6.

- a** Using both thumbs, pull the latches (one on each side of the DIMM connector) outward.
- b** Lift the DIMM straight out of the DIMM connector.



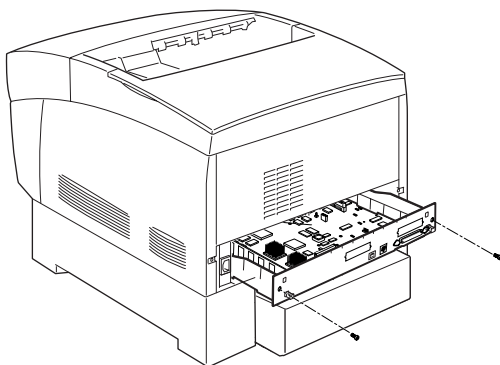
- 6** Insert the new DIMM straight down into the DIMM connector until the latches snap into the locked position.

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.



- 7** Reinstall the controller board into the printer.

Gently slide the controller board into the printer's tracks until it is fully seated, and then tighten the two screws.




- 8** Reconnect all interface cables.
- 9** Reconnect the power cord, and turn on the printer (a startup page should print, if enabled).



In compliance with UL guidelines, "The appliance inlet is considered to be the main disconnect device."

- 10 Verify that the total size of the RAM installed in your printer is listed on the startup page (control panel's Administration/Startup Options/Do Start Page menu) or a status page (control panel's **Print Status ?** button or Administration/Special Pages/Print Status menu).



Startup Page

PRINTER INFORMATION
 Product Name: magicolor 3100
 Printer Name: magicolor 3100
 Serial Number: 0
 System Date: Fri Sep 21 12:15:40 2001
 System Software Release: 0.0.22

Language Version: 3010.01, Revision 1
 Installed Memory: 256 MB
 Typeface Fonts: 252
 Print Quality: Standard

USAGE SUMMARY
 Faces Printed: 246
 Sheets Printed: 248
 Transparencies: 0
 Monochrome(K) Faces: 201
 Normalized Mono (K) Faces: 202.93
 Color Faces: 45
 Normalized Color Faces: 46.83

PAPER SOURCES
 Multipurpose(Print1): letter
 Upper(Print2): letter
 Optional(Print3): letter
 Optional(Print4): letter

www.minolta-qms.com



PRINTER INTERFACES
 PARALLEL: Interactive
 Emulation: ESP
 Data Bits: 8 Bits

USB
 Emulation: ESP








RESIDENT NID: Enabled
 Type: Crownhill 6.07ET+
 Emulation: ESP
 HW Address: 08.00.80.11.4B.2F
 IP Address: 101.003.130.259
 Ether Talk Zone: sqs1


INSTALLED OPTIONS
 Digiscan
 %disa7%

RAM

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magicolor 3100

Printer Name : magicolor 3100

Status Page

Printer Identification

System Release:	0.0.15
Version:	3010.01, Revision1
Process ID:	2831
Faces Printed:	55
Sheets Printed:	42

Current Memory Configuration

Location	Size
Host Input:	3072 KB
Display List:	19136 KB
Font Cache:	1024 KB
Heap:	5120 KB
Framebuffer:	63760 KB
Emulation:	64 KB
HP Storage Pool:	3072 KB
Emulation Temporary:	3072 KB
Color Matching:	8192 KB
Disk Cache:	28 KB
System Use:	1024 KB
Total Memory:	131072 KB

PostScript® Emulation VM: 3248608
 VM allocated: 142272
 VM remaining: 3106336

Printer Settings

Compatibility Level:	Level 3
Do Start-up Page:	Yes
Do Error Handler:	No
Do SysStart:	Yes
Is Password 07	Yes
Long Edge Duplex:	Yes
Short Edge Duplex:	No
Default Chaining:	Yes
Default Paper Tray:	Upper
Default Output Tray:	Upper
Number of Paper Trays:	2
Page Stack Order:	Face Down
Left Margin:	100
Top Margin:	100
Print Quality:	Standard

Timeouts

Wait:	120 sec.
Job:	0 sec.
Emulation:	5 sec.
ESP:	3 sec.

Emulations, Fonts, and Other Software

Emulations

Optional emulations, such as ImageServer, LN03 Plus, and CGM are available. This section describes how to download an emulation to the printer's hard disk.



You must have at least one hard disk, internal or external, attached to the printer in order to use an optional emulation. If more than one hard disk is available, the emulation automatically installs itself on the disk with the most free storage space. MINOLTA-QMS recommends that you have at least 4 MB of memory above the base configuration and that you add at least 1 MB memory for each emulation installed. This ensures that the printer can run the emulation without slowing down performance.

Downloading an Emulation via PageScope

MINOLTA PageScope is a utility which provides access to printer management functions, including status monitoring and network/printer parameter settings. We recommend that you use PageScope to download an emulation. Refer to the PageScope online help on the *Software Utilities* CD-ROM for instructions about downloading applets for telnet and ftp.

CrownView

Many of the configuration choices that can be made at the control panel can also be made via CrownView. See the MINOLTA-QMS CrownView online help for information.

Downloading an Emulation via a Parallel Interface

- 1 Turn on the printer, and wait for `IDLE` to display in the message window.
- 2 If your PC is running Windows, change to DOS.
- 3 Insert the emulation CD-ROM or disk in your PC, and change to that drive (for example, if you're using the D drive, type `d:↵`).
- 4 Send the emulation to the printer's hard disk. Type

```
copy filename lpt#↵
```

where *filename* is the name of the installation file and where # is 1 to 3, depending on the parallel port your printer is connected to (usually 1).

- 5 When downloading is complete and the printer returns to idle status, reboot the printer.

The emulation should be listed in the Options section of the printer's startup page, in the Administration/Emulation printer's configuration menu, and on the advanced status page.

Downloading an Emulation via an Ethernet Interface



Before you begin this procedure, your printer and PC (or UNIX workstation) must be connected to an Ethernet network running TCP/IP and have valid IP addresses.

- 1 Turn on the printer, and wait for IDLE to display in the message window.
- 2 If your PC is running Windows, change to DOS.
- 3 Insert the emulation CD-ROM or disk in your PC, and change to that drive (for example, if you're using the D drive, type `d : ↵`).

If you want to download the emulation from a UNIX workstation, copy the installation file from the emulation CD-ROM or disk to a temporary directory on your UNIX workstation, then change to that directory.

- 4 Open an ftp session on your PC or workstation by typing one of the following commands:

```
ftp printername↵ (for example, ftp pctdev6↵)
```

```
ftp ipaddress↵ (for example, ftp 161.33.130.45↵)
```

- 5 When prompted for a user name and password, press Enter for both.
An ftp> prompt displays.

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

```
bin↵
```

- 7 At the ftp> prompt, send the emulation file to the printer's hard disk by typing

```
put filename↵
```

where *filename* is the name of the installation file.

The printer's message window reads 1 ACTIVE JOB to indicate that the emulation is being downloaded to the hard disk. The ftp> prompt returns when the emulation has finished loading.

- 8 At the ftp> prompt, end the ftp session by typing

```
quit↵
```

- 9 When the Disk light stops flashing and the printer's message window reads `IDLE` for at least 30 seconds, turn the printer off and then on again.

The emulation should be listed in the Options section of the printer's startup page, in the Administration/Emulation printer's configuration menu, and on the advanced status page.



You may want to erase any installation files left on your computer (and/or workstation), and then remove any temporary directories.

Using an Optional Emulation

Refer to the documentation that came with your emulation for configuration and usage instructions.

ImageServer

MINOLTA-QMS ImageServer technology provides a high-performance, cost-effective way for businesses using document imaging to print their stored image files. For complete information, refer to the documentation that comes with the ImageServer option.

TIFF, CALS: A CCITT emulation (Group 4, monochrome only) is available through the MINOLTA-QMS ImageServer option, which image-enables your printer, allowing it to print many images at or near the rated engine speed and eliminating the need for a computer dedicated to rasterizing images.

LN03 Plus

An LN03 Plus emulation offers all of the features on an LN03 Plus laser printer, including DECTEK emulation and Digital's Tektronix 4014 emulation.

If you already have files containing LN03 Plus escape sequences, or if you have set our application to print to an LN03 Plus printer, you only need to follow its installation instructions to begin using the emulation in your MINOLTA-QMS printer.

- **Host software compatibility**—Since LN03 Plus runs under VMS, VMS compatibility is important. the MINOLTA-QMS VMS DECnet host software 2.x is compatible with version 3.x MINOLTA-QMS daughterboard software.
- **Printer compatibility**—This LN03 Plus emulation can be installed only on MINOLTA-QMS printers that contain a hard disk drive (either internal or external).

Fonts and Forms

MINOLTA-QMS Font & Form Center

The MINOLTA-QMS Font & Form Center serves our customers with custom fonts, logos, signatures, and forms. Further information can be found on the web at <http://www.minolta-qms.com/products/fontcenter/index.html> or by phone in the US at (251) 634-4FONT. The MINOLTA-QMS Font & Form Center

- Maintains a library of PCL, PostScript, LN03 Plus, and MINOLTA-QMS QUIC fonts.
- Develops custom PCL, PostScript, LN03 Plus, and MINOLTA-QMS QUIC fonts.
- Develops PCL, PostScript, and MINOLTA-QMS QUIC signatures.
- Develops PCL, PostScript, and MINOLTA-QMS QUIC logos and graphics.
- Develops QFORM, PlanetPress, and Word forms.
- Archives files at no extra cost.

QFORM

The MINOLTA-QMS QFORM option allows you to use existing lineprinter and forms printing applications on your magicolor 3100 printer. This printer resident application gives you the ability to store PostScript forms on the printer's hard disk and fill those forms with your application's ASCII print stream. Features include

- Definition of page formatting and fonts
- Duplexing with binding-margin offsets
- Two-sided forms with text fill-in on front and/or back
- "Gray bar" listing formats
- Automatic page numbering
- ANSI carriage-control recognition
- Single- and multipart forms
- Labels
- Logos and watermarks



MINOLTA-QMS QFORM doesn't support color features.

QFORM allows you to use existing lineprinter and forms-printing applications on your magicolor 3100. This printer-resident application gives you the ability to store PostScript forms on the printer's hard disk and fill those forms with your application's ASCII print stream.

Refer to the documentation that comes in the QFORM kit for installation and usage instructions.

PlanetPress

PlanetPress is an electronic forms package that allows the creation and modification of business forms, MICR checks, bar codes, and other pre-printed forms.

Refer to the documentation that comes in the PlanetPress kit for installation and usage instructions.

Optional Fonts

Optional fonts are available as files on floppy disks or CD-ROMs.

At least one hard disk (internal or external) must be present on your printer before you can download a font. If more than one hard disk is available, the font automatically installs itself on the disk with the most free storage space.

We recommend that you use the MINOLTA-QMS Download Manager (found on the ftp site) for Windows to download fonts. Other methods include downloading via Ethernet, USB, or parallel connections (refer to the *CrownBooks* for more information).

If you need assistance, more details can be found at www.minolta-qms.com/support (click on Answer Base).

CID Fonts

CID fonts are a format of composite (multibyte) Type 1 fonts that address the requirements of Far East markets. CID-keyed refers to the character identifier (CID) numbers that are used to index and access the characters in the font. A CID font consists of a large font file that contains all the character outlines and a small CMap file that contains a list of characters, encodings, and character identifiers. Each CID font can support many character set and encoding combinations. CID fonts Adobe Morisawa, Enfour, and Fontworks are supported on the *magicolor* 3100.

Kanji Font Internal IDE Hard Disk

The preformatted Kanji font internal IDE hard disk contains Kanji fonts and other files. These fonts can be printed at a variety of point sizes and in different styles and resolutions.

After the Kanji hard disk is installed in your *magicolor* 3100, the Kanji fonts are available for use just as if they were resident on the printer.

What's in the Kit?

- Internal IDE hard disk drive preformatted with the following Kanji Morisawa fonts:
 - GothicBBB
 - Mincho
- IDE hard disk with ribbon cable attached
- IDE hard disk bracket
- 4 screws

Hardware Requirements

- A Macintosh, IBM PC, or compatible computer

Software Requirements

- An application (such as a word processing or desktop publishing package) that supports PostScript printing.
- If you're using a Macintosh, the following Macintosh system software:
 - KanjiTalk, version J1-6.0.7 or later
 - System File, version J1-6.0.7 or later
 - Laser Prep, version J1-6.0.1 or later
 - LaserWriter, version J1-6.0.2 or later
 - Print Monitor, version J1-1.3 or later
 - MultiFinder, version J1-6.1.7 or later
 - Macintosh OS 8.xJ
- If you're using a PC, the following system software:
 - If you're using Windows, version 3.1J or later
 - If you're using DOS, version 5.0J or later

Installing a Kanji Font Internal IDE Hard Disk Drive

Attention

The Kanji fonts are factory installed on a formatted hard disk drive. DO NOT reformat or initialize the Kanji internal IDE hard disk drive. Reformatting erases all data, fonts, and files on the disk. Your warranty does not cover this error.

The Kanji font internal IDE hard disk is installed on the controller board in the same way any internal hard disk is installed. See “Internal IDE Hard Disk Drive” on page 132 for detailed steps on installing an internal IDE hard disk drive.

Attention

If you already have an internal hard disk installed, you must remove it before you can install the Kanji disk.

Configuring the Printer for Kanji

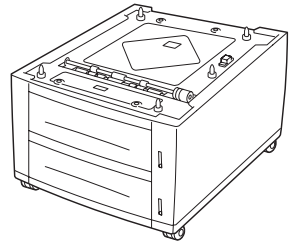
See “Storage Devices” in the *CrownBooks* for information on how to configure your printer’s memory when using an internal IDE hard disk drive.

High-capacity Input Feeder (HCIF)

Each tray in the HCIF increases your printer’s media feed capacity by 500 sheets. The HCIF is positioned under the printer, so no extra horizontal space is necessary.

What’s in the Kit?

- High-capacity input feeder (HCIF) with two media trays (500 sheets each)



Installation

WARNING!

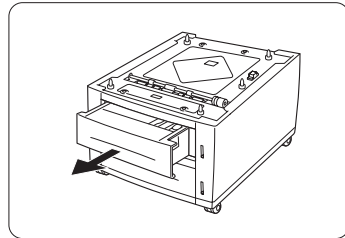
Your printer weighs approximately 77 lbs (35 kg) with consumables. Be sure to have help when lifting and moving it.

ACHTUNG! Das Gewicht dieses Druckers beträgt mit Verbrauchsmaterial ca. 34.5 kg. Bitte versuchen Sie niemals, den Drucker alleine anzuheben oder zu transportieren.

- 1 Remove the HCIF from the shipping carton, and place it on a table or flat surface near the printer.
- 2 Remove any tape and packing material from the HCIF.



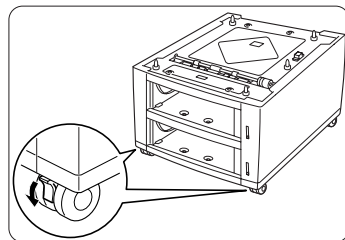
We **strongly** suggest that you save the packaging materials in case you ever need to move or ship the printer.



- 3 Slide open the top media tray until it stops.
- 4 Using two hands, lift it slightly to remove it from the printer.
- 5 Remove any shipping tape and spacers.
- 6 Repeat for the lower media tray.
- 7 Lock the two casters on the bottom of the HCIF.

⚠ Attention

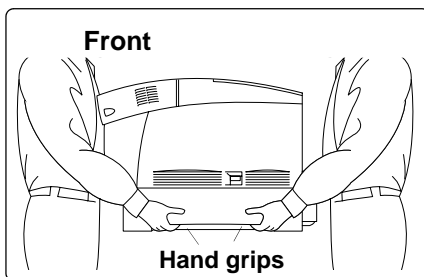
The casters must be locked so the unit does not roll unexpectedly while in operation.



- 8 Turn off the printer, and then disconnect the power cord and all interface cables from the printer.

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

Do not tilt it more than 10° in any direction at any time.



WARNING!

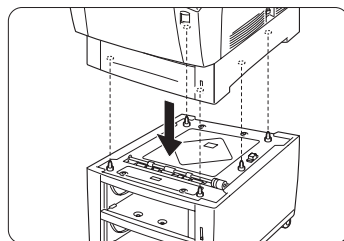
Your printer weighs approximately 77 lbs (35 kg) fully assembled. Be sure to have help when lifting and moving it.

ACHTUNG! Das Gewicht dieses Druckers beträgt ohne Verbrauchsmaterial ca. 35 kg. Bitte versuchen Sie niemals, den Drucker alleine anzuheben oder zu transportieren.

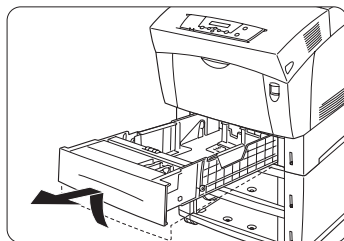
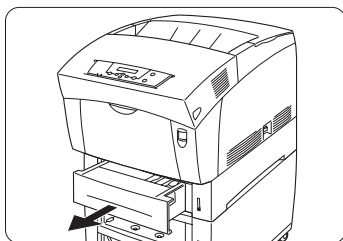
- 10 Set the printer on top of the HCIF.



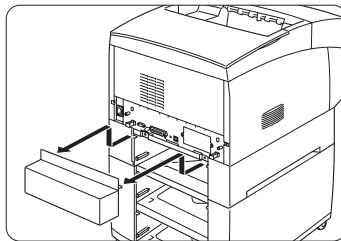
Be sure to align the printer and HCIF as precisely as possible.



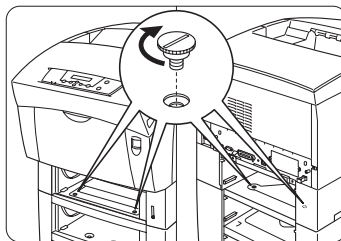
- 11 Remove the upper media tray.



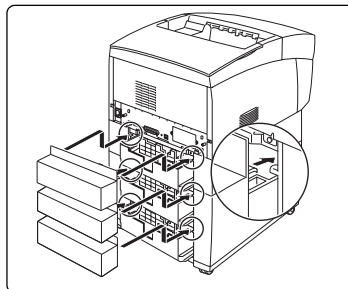
- 12** Remove the media tray cover from the rear of the printer.



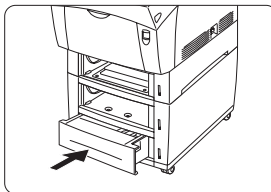
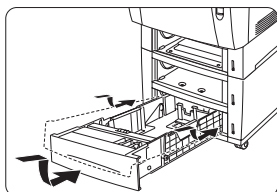
- 13** Screw in the 4 screws and tighten them.



- 14** Install all three media tray covers (see inset for location).



- 15** Install the media trays.



If you need to move the printer with the HCIF attached, unlock the casters and then move the unit.

16 Plug the printer in and turn it on.



In compliance with UL guidelines, “The appliance inlet is considered to be the main disconnect device.”

17 Readjust the printer’s color side-to-side registration, if necessary.

Media Trays

The printer comes with a 100-sheet multipurpose tray (tray 1) and a 500-sheet media tray (the standard upper tray—tray 2). The optional high-capacity input feeder has two 500-sheet media trays (trays 5 and 6). Additional trays may be purchased. These trays provide three 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.

Interfaces and Daughterboards

Interfaces

Your printer supports the following interface cards:

- CrownNet for Ethernet 10BaseT/100BaseTX (TCP/IP, NetWare, EtherTalk, LAN Manager/LAN Server) for an additional CrownNet for Ethernet connection
- CrownNet for Token-Ring (TCP/IP, NetWare, LAN Manager/LAN Server)
- Crown for DECnet-TCP/IP

You can install one of these interface cards in addition to the two standard interfaces—parallel and CrownNet for Ethernet (TCP/IP, NetWare, EtherTalk, LAN Manager/LAN Server). The printer’s Simultaneous Interface Operation (SIO) allows all of these interfaces to be active at the same time. In other words, your printer can simultaneously communicate through all three ports with three hosts, either computers or networks.

If installing Token-Ring or optional interface cards, see the “Notices” section in the *Installation Guide* for FCC compliance classification information.

What's in the Kit?

An optional interface kit includes the following:

- An interface card
- Interface documentation (in hardcopy and/or on CD-ROM)

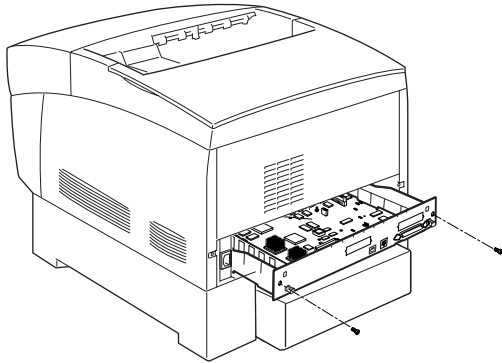
The kit may also include additional parts not required for network interface installation on this printer.

Installation

Attention

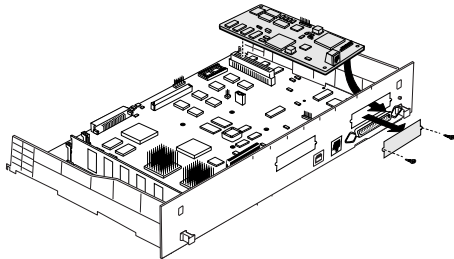
It's very important to protect the printer controller board and any associated circuit boards from electrostatic damage. Before performing this procedure, review the antistatic caution on page 109. In addition, always handle circuit boards by the edges only.

- 1 Turn off the printer, and then disconnect the power cord and all interface cables from the printer.
- 2 Loosen two screws (one on each end of the interface panel) and, using the tab on the lower side of the panel, pull the controller board from the printer.



- 3 Remove the two screws holding the metal plate over the optional interface opening.

The optional interface opening is located next to the "Parallel" port. Save the two screws. (You'll use them when you install the optional interface card.) You can dispose of the plate according to local regulations.



- 4 Attach the interface card to the controller board.

- a Position the interface card so that its I/O connector slides into its opening in the interface panel and that its 80-pin connector aligns with the 80-pin connector on the controller board.
- b Gently press the interface card down until its connector is fully seated and the card is secured by the plastic support post(s).

Attention

Make sure that the connectors on the interface card and controller board are properly aligned. Damage to the interface card and/or controller board could result if the pins are misaligned.

- 5 Secure the interface card to the interface panel with the two screws you removed earlier.

- 6 Reinstall the controller board.

Gently slide the controller board into the printer's tracks until it is fully seated, and then tighten the two screws.

- 7 Reconnect all interface cables.

- 8 Reconnect the power cord, and turn on the printer.



In compliance with UL guidelines, "The appliance inlet is considered to be the main disconnect device."

- 9 Print a startup page.

Check that the startup page lists the interface (Optional NIC) just installed under "Options."

Using a Network Interface

Once a network interface is installed, refer to "Connecting the Printer to the Host Computer," in the *Installation Guide* and the *CrownBooks* for information on connecting to the network, installing the software, and configuring the interface and the network.

SC-215 Color Convenience Copier

Follow the installation instructions included with the SC-215.

SCSI Interface

The optional SCSI interface allows you to connect an optional SCSI device, including a hard disk, and Jaz and Zip drives. These devices provide storage

for fonts, emulations, and other files; increase the number of pages that can be collated; and provide a secondary storage area for spooled data, while providing virtual memory capabilities.

In order to back up the hard disk contents to a Jaz drive, you must increase the Disk Cache manually to at least 1 MB. For more information about increasing the memory in the Disk Cache, refer to the *CrownBooks*.

What's in the Kit?

An optional SCSI interface kit includes the following:

- SCSI interface card
- SCSI interface card ribbon cable
- Connector face plate
- Two larger screws, two smaller screws

Installation

Attention

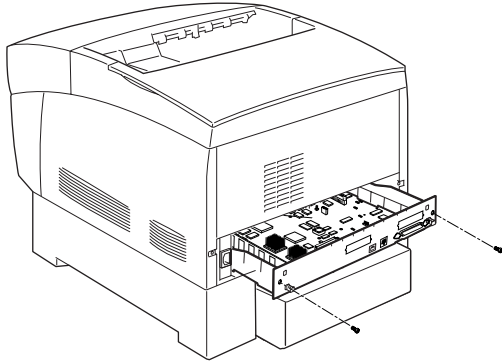
It's very important to protect the printer controller board and any associated circuit boards from electrostatic damage. Before performing this procedure, review the antistatic caution on page 109. In addition, always handle circuit boards by the edges only.

- 1 Turn off the printer, and then disconnect the power cord and all interface cables from the printer.

- 2 Loosen two screws (one on each end of the interface panel) and, using the tab on the lower side of the panel, pull the controller board from the printer.

- 3 Remove the two screws holding the metal plate over the SCSI interface opening.

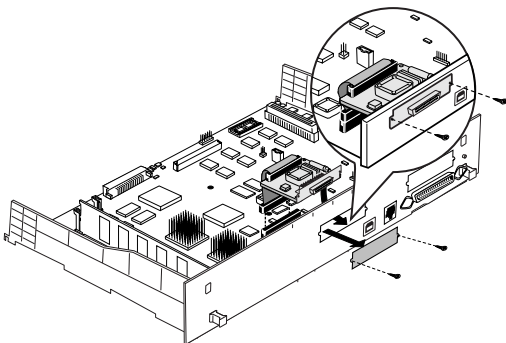
You can dispose of the metal plate and screws according to local regulations.



- 4 Attach the ribbon cable to its connector on the SCSI interface card.

- a Position the SCSI interface card so that its ribbon cable connector aligns with the SCSI connector on the controller board.

- b Gently press the ribbon cable connector down until it's fully seated.



Attention

Make sure that the connectors on the ribbon cable and the controller board are properly aligned. Damage to the controller board could result if the pins are misaligned.

- c Insert the SCSI interface card connector into its opening in the interface panel.
- d Secure the SCSI interface card to the interface panel with the two larger screws in the kit.
- 5 Reinstall the controller board.

Gently slide the controller board into the printer's tracks until it's fully seated, and then tighten the controller board's two screws.

- 6 Reconnect all interface cables.

- 7 Reconnect the power cord and turn on the printer.



In compliance with UL guidelines, "The appliance inlet is considered to be the main disconnect device."

- 8 Print a startup page.

Check that the startup page lists the interface (SCSI) just installed under "Options."

Using a SCSI Interface



Installing a SCSI interface allows the attachment of external SCSI storage devices, such as hard drives, and Jaz and Zip drives. Installing the SCSI interface kit will not allow you to print via SCSI.

Internal IDE Hard Disk Drive

Attention

Make sure that the printer and all accessories are turned off before installing accessories involving the controller board.

One optional internal IDE hard disk is supported.

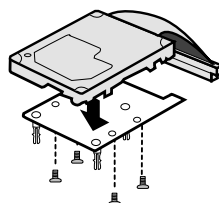


Direct printing of complex or large PDF files may require additional memory and/or a hard disk.

What's in the Kit?

The internal IDE hard disk drive kit includes the following:

- IDE hard disk with ribbon cable attached
- IDE hard disk bracket
- 4 screws



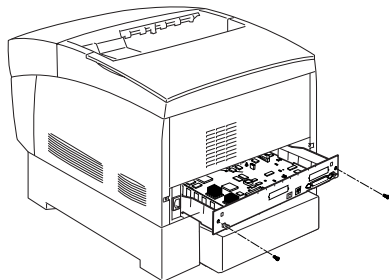
Installation

Attention

It's very important to protect the printer controller board and any associated circuit boards from electrostatic damage. Before performing this procedure, review the antistatic caution on page 113. In addition, always handle circuit boards by the edges only.

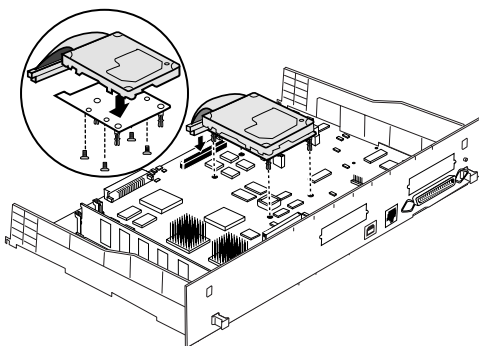
When installing or removing a hard disk, make sure that the metal support posts (on the hard disk) do not come in contact with any of the electrical leads on the chips mounted on the controller board. The controller board will not function if any of the leads are broken or shorted together.

- 1 Turn off the printer, and then disconnect the power cord and all interface cables from the printer.
- 2 Loosen two screws (one on each end of the interface panel) and, using the tab on the lower side of the panel, pull the controller board from the printer.



- 3 Position the controller board on a flat surface so the controller board lies flat and the interface panel is facing you.
- 4 Attach the internal IDE hard disk drive to the hard disk bracket.

Attach the internal IDE hard disk drive to the bracket with the grooved-end of the bracket facing the ribbon cable.



The screw holes in the bottom of the hard disk should match up with the holes on the hard disk bracket.

Fasten the hard disk to the bracket with the screws provided.

- 5 Position the hard disk so that the four support posts face the controller board, the colored stripe on the ribbon cable faces away from you, and the connector is down.
- 6 Insert ribbon cable connector pin 1 (the colored stripe side of the cable) in hard disk connector pin 1.

! Attention

Make sure that the ribbon cable connector and the controller board connector pins are properly aligned. Damage to the controller board could result if the pins are misaligned.

- 7 Press down gently but firmly on the cable connector until it is fully seated.

Attention

Do not push or pull with the ribbon cable. Use the cable connector.

- 8 Align the support posts with the holes on the controller board, and then press down to secure the hard disk to the controller board.
So that you don't stress the board, press one corner at a time to secure the hard disk to the controller board.
- 9 Reinstall the controller board into the printer.
Gently slide the controller board into the printer's tracks until it is fully seated, and then tighten the two screws.
- 10 Reconnect all interface cables.
- 11 Reconnect the power cord and turn on the printer.



In compliance with UL guidelines, "The appliance inlet is considered to be the main disconnect device."

When you print a startup page, verify that the hard disk is listed.

Time-of-Day Clock

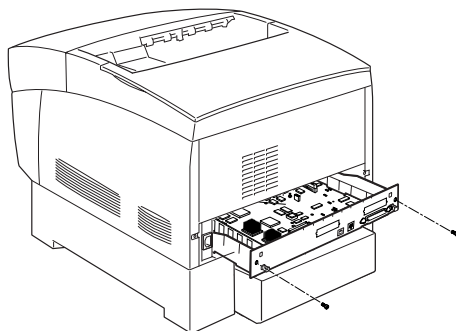
The time-of-day clock provides time and date information on the startup page and in the accounting data.

Installation

Attention

It's very important to protect the printer controller board and any associated circuit boards from electrostatic damage. Before performing this procedure, review the antistatic caution on page 109. In addition, always handle circuit boards by the edges only.

- 1 Turn off the printer, and then disconnect the power cord and all interface cables from the printer.
- 2 Loosen the screws and pull the controller board from the printer.



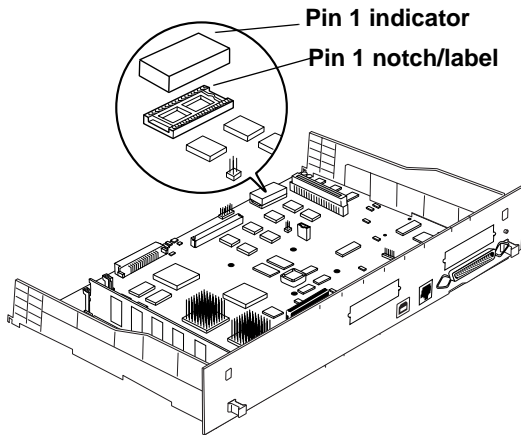
WARNING!

Because the time-of-day clock includes an internal battery, there is a danger of explosion if the clock is incorrectly installed or replaced. Replace it only with a supported MINOLTA-QMS time-of-day clock. Dispose of any used time-of-day clock in accordance with local laws and regulations.

ACHTUNG! Da der Uhrenbaustein eine interne Batterie enthält, besteht Explosionsgefahr, falls dieser falsch eingesetzt oder ersetzt wird. Er darf nur durch einen unterstützten Baustein ersetzt werden. Bitte entsorgen Sie den Baustein gemäß den geltenden Entsorgungsbestimmungen.

AVERTISSEMENT! Dû au fait que l'horloge interne de l'imprimante est munie d'une batterie interne, il y a un risque d'explosion si celle-ci est mal installée ou remplacée. La remplacer seulement avec une horloge supportée par MINOLTA-QMS. Se départir de toute horloge interne défectueuse en respectant les lois et réglementations en vigueur.

- 3 Attach the time-of-day clock to the controller board.



Attention

Make sure that the pins on the time-of-day clock are properly aligned with those in the receiving socket on the controller board. Damage to the time-of-day clock and/or controller board could result if the pins are misaligned.

- a Locate the time-of-day clock socket on the controller board and the pin 1 notch or printed label.
 - b Locate the pin 1 indicator mark on the top of the time-of-day clock.
This mark may be a notch or a slight depression on one end of the clock.
 - c Align this indicator mark with the pin 1 notch or printed label on the controller board.
 - d Gently press down on the time-of-day clock until it's firmly seated.
- 4 Reinstall the controller board.
Gently slide the controller board into the printer's tracks until it is fully seated, and then tighten the screws.
- 5 Reconnect all interface cables.
- 6 Reconnect the power cord and turn on the printer.



In compliance with UL guidelines, "The appliance inlet is considered to be the main disconnect device."

The presence of the clock will be automatically sensed.

7 Print a startup page.

The time-of-day clock is not listed under “Installed Options” on the startup page, but the time does appear as System Date in the Printer Information column.

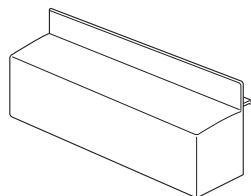
For instructions about setting the time-of-day clock, refer to the *CrownBooks*.

Tray Cover

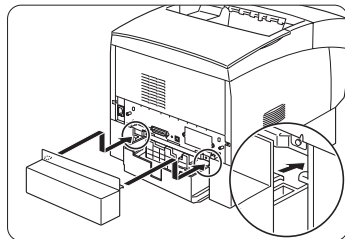
The tray cover accessory protects the media tray(s) from dust.

What’s in the Kit?

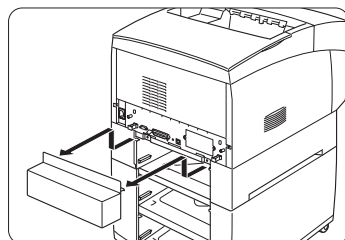
- Tray cover



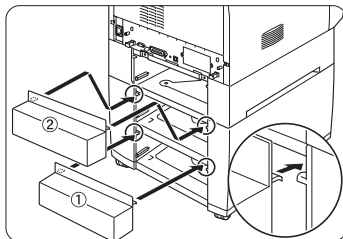
- 1 Hook the tray cover onto the tabs on the rear of the printer.



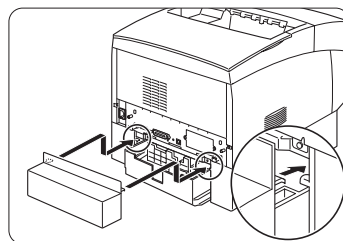
- 2 If you add a high-capacity input feeder, remove the tray cover from the rear of the upper media tray.



- 3** Then attach the HCIF tray covers by hooking the tray covers ① and ② at the rear of the printer onto the corresponding tabs.



- 4** Attach the tray cover back onto the upper media tray.



Color Printing

6

Introduction

Your magicolor 3100 features advanced color laser technology that produces inexpensive and durable color prints at 1200x1200 dpi on plain paper, envelopes, labels, thick stock, and transparencies.

Color Registration






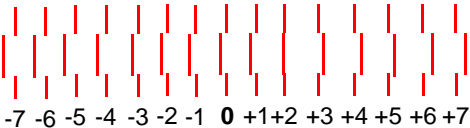



Color Registration

At setup, any time the printer is moved, and whenever you replace the imaging unit, adjust the side-to-side (scan direction) color registration using the following control panel sequence.



The printer automatically adjusts the registration in the top-to-bottom (feed) direction.

Press Key	(Until) Display Reads Message in Capital Letters
Online	IDLE (and online button is off)
Menu	CONFIGURATION/OPERATOR CONTROL Do NOT press Select yet.
→ (Next)	CONFIGURATION/ADMINISTRATION
SELECT↵ (Select)	
→	ADMINISTRATION/ENGINE
SELECT↵	
→	ENGINE/REGISTRATION
SELECT↵	REGISTRATION/REGISTRATION PG
SELECT↵	REGISTRATION PG/YES
SELECT↵	REGISTRATION/REGISTRATION PG
<div>■ Wait for a Side Color Registration Page to print. Note the number below each set of swatches that shows which set aligns the straightest. If the straightest lines are all at the “0” position for every color, you do not need to adjust the registration. Press Online twice to return the printer to online and IDLE.</div> <div>■ If the straightest lines are in a position other than “0,” continue with these instructions (the example below shows +4 to be the straightest).</div> <div></div>	

Press Key	(Until) Display Reads Message in Capital Letters
→	Press the Next key until the color you want to adjust is in the message window.
SELECT 	
→	Press the Next key until the registration number of the color to be adjusted is set at the baseline of "0."
SELECT 	
→	REGISTRATION/REGISTRATION PG
SELECT 	REGISTRATION PG/YES
SELECT 	REGISTRATION/REGISTRATION PG
<p>■ If the straightest lines are all at the "0" position for every color, you do not need to adjust the registration. Press Online <u>twice</u> to return the printer to online and IDLE.</p> <p>■ If the straightest lines are in a position other than "0," continue with these instructions.</p>	
→	Press Next to go back to the color to be adjusted.
SELECT 	
→	<p>Press the Next key until the registration number of the straightest line is displayed (+2 in the new sample).</p> 
SELECT 	REGISTRATION PG
SELECT 	REGISTRATION PG/YES
SELECT 	REGISTRATION/REGISTRATION PG
The registration page prints again. Confirm that the registration is correct. Repeat the process for the other colors, if necessary.	
Online (<u>twice</u>)	IDLE (and online button is on).



The printer automatically saves each number as you progress through the choices using the Next or Previous key. The printer does not have to be restarted for the changes to take effect.

PRISMLASER™ Technology

How does PRISMLASER work?

PRISM (Photo-Reactive Image Splitting Module) is an all-in-one imaging unit technology where all four color toners may be printed in one pass. The photo-reactive image goes through an image-splitting module where the colors are divided.



Color Management and Control

The magicolor 3100 offers a host of color screening, matching, and calibration tools for both the beginner and professional color user.

MINOLTA-QMS QCOLOR Technology

Color management does not mean all devices will match exactly. It does ensure the closest possible color transformation. MINOLTA-QMS QCOLOR technology offers four methods for color matching across devices:

- MINOLTA-QMS QCOLOR automatic color correction
- Supplied ICC printer profiles
- Built-in color rendering dictionaries (CRDs)
- Supplied PANTONE®* Color matching tables

MINOLTA-QMS QCOLOR technology automatically optimizes color output to produce professional quality, colorized documents without the use of sophisticated manual optimization techniques.

The following is a summary of MINOLTA-QMS QCOLOR automatic color correction features:

- **Ease of use across applications:** With MINOLTA-QMS QCOLOR, it's as easy to get great color from a PowerPoint presentation as it is from a desktop publishing application, such as QuarkXPress. MINOLTA-QMS QCOLOR's color matching methods are simple for both novice and professional color users to navigate.
- **Single-button control:** Whether accessing through the printer driver, or from the printer's front panel, MINOLTA-QMS QCOLOR's single-button controls enable automatic correction of uncalibrated RGB or CMYK color files.

*Pantone, Inc.'s check-standard trademark for color reproduction and color reproduction materials.

- **Printer-resident CMS:** Because MINOLTA-QMS QCOLOR automatic color correction is built into the printer, it works well in all computing environments and with most design, publishing, and office applications.
- **Industry-standard profiles:** QCOLOR uses industry-standard ICC profiles for compatibility with popular input and output devices.
- **Supports host-based color management systems:** Easily disable MINOLTA-QMS QCOLOR automatic color correction when using host-based ColorSync or ICM color matching.
- **Profiles for common monitors and output devices:** MINOLTA-QMS QCOLOR offers default color matching for a variety of common monitors and printing presses.
- **Download device profiles:** For custom color matching, QCOLOR supports downloaded (to disk only) ICC profiles.
- **Support for Internet standard:** MINOLTA-QMS QCOLOR uses sRGB for Internet-standard default color matching.
- **Individual page element correction:** QCOLOR separately color corrects (matches) graphics, text, and images on a single page using printer-resident CRDs.

Further Information

For further information about MINOLTA-QMS color management, refer to the *CrownBooks*.

***Storage,
Deinstallation,
Shipping, and
Packing***

7

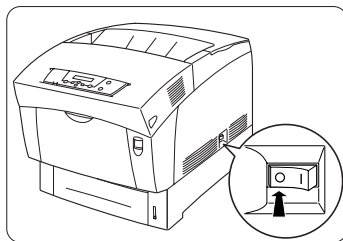
Attention

Failure to follow these instructions could result in voiding your warranty.

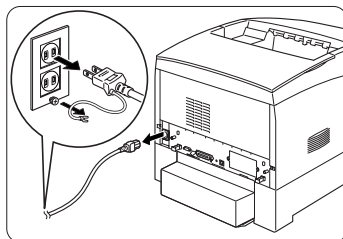
Storing the Printer

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

- 1 Turn off the printer.

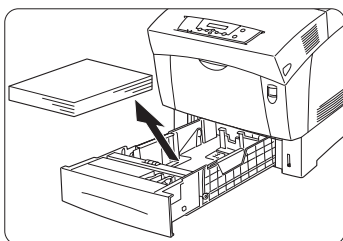


- 2 Unplug the printer's power cords and interface cables.



- 3 Remove the media from all media tray(s).

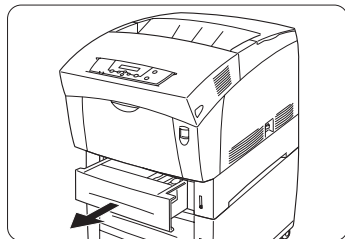
Store the media in a dust-free area protected from humidity.



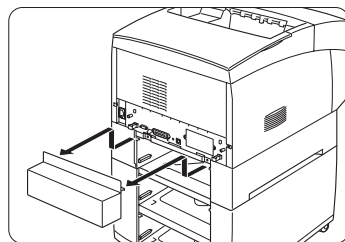
Deinstalling the High-capacity Input Feeder (HCIF)

If you don't have an HCIF installed, skip to the following section.

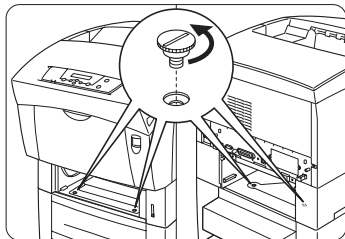
- 1 Remove the upper media tray.



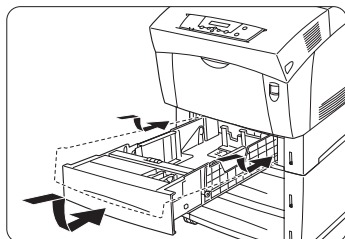
- 2 Remove the rear tray cover.



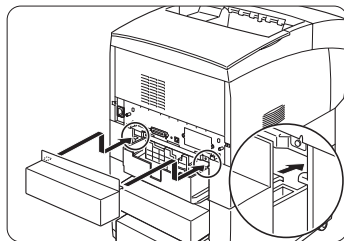
- 3 Remove the four connecting screws.



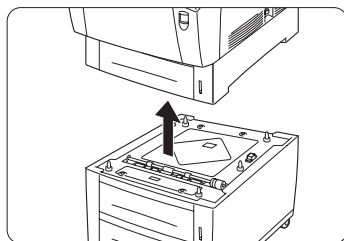
- 4 Reinsert the upper media tray.



- 5 Replace the rear tray cover.



- 6 With the help of another person, lift the printer by its carrying grips from the HCIF, and place the printer on a flat surface.



WARNING!

Your printer weighs approximately 77 lbs (35 kg) fully assembled. Be sure to have help when lifting and moving it.

ACHTUNG! Das Gewicht dieses Druckers beträgt ohne Verbrauchsmaterial ca. 35 kg. Bitte versuchen Sie niemals, den Drucker alleine anzuheben oder zu transportieren.

- 7 Repack the HCIF in its original shipping carton for storage or shipment.



If you're returning the printer for service, you don't need to return the high-capacity input feeder unless instructed to do so.

Shipping the Printer

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

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 shipping the printer.

Do you have your original packaging?

If yes, you need only the Repacking Kit part number 1730872-901. If no, you need both the Replacement Shipping Carton Kit part number 1730873-901 and the Repacking Kit part number 1730872-901. To order either or both kits, in the United States, call MINOLTA-QMS Spares at (251) 633-4300 x2530. For locations outside the United States, refer to the *Service & Support Guide* or www.minolta-qms.com.

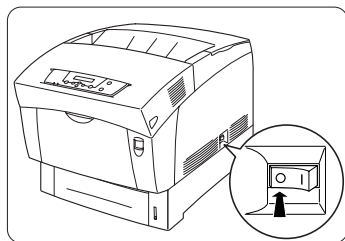
If you return the printer for service, be sure to write the RMA (Return Merchandise Authorization) number you received from your customer support representative on the outside of the carton before shipping the printer.

If the RMA number is not *clearly* visible on the outside of the return inventory, we will not accept receipt.

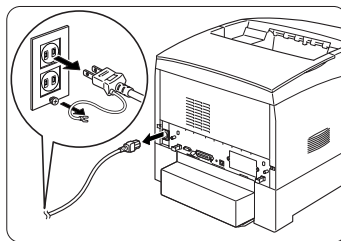
You can also have a MINOLTA-QMS authorized service provider deinstall and repack your printer. For prices and availability, call 1 (877) 778-2657.

Prepare the Printer for Shipment

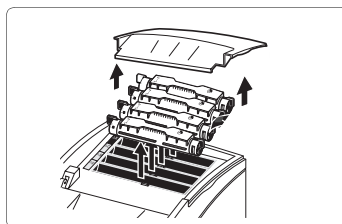
- 1 Turn off the printer.



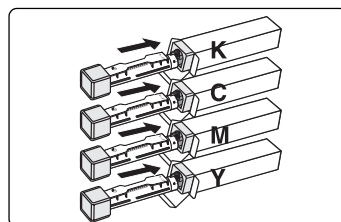
- 2 Unplug the printer's power cords and interface cables.
- 3 If you have an high-capacity input feeder (HCIF) installed, remove it (see page 147).



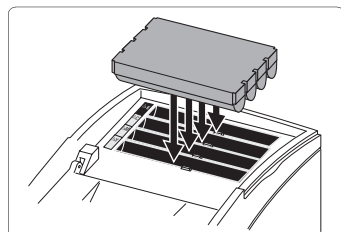
- 4 Remove the top cover and all toner cartridges.



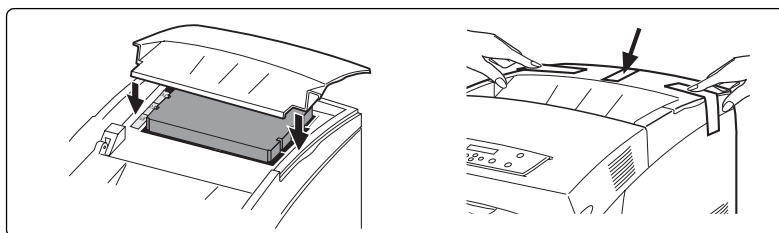
- 5 Place the toner cartridges in their original packaging and foam.



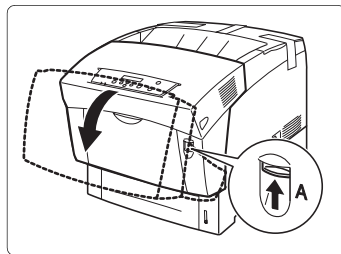
- 6 Insert the toner foam spacer.



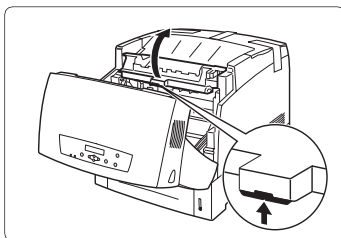
- 7 Replace the top cover and secure it with tape.



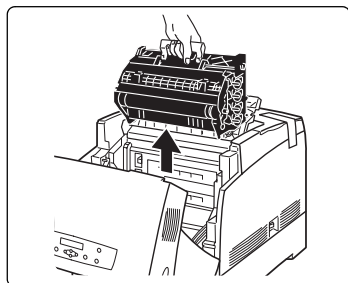
8 Open the front cover (button A).



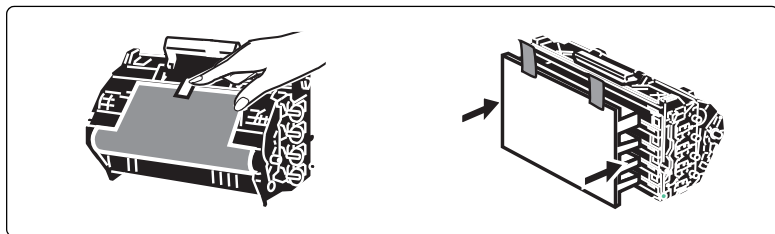
9 Open the imaging unit cover.



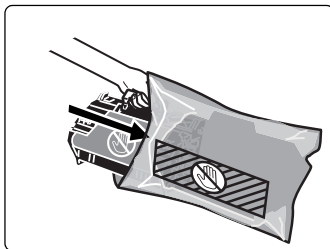
10 Remove the imaging unit.



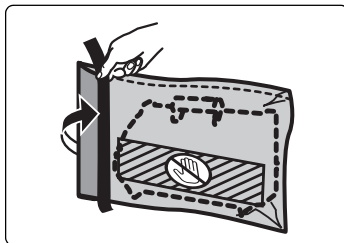
11 Replace the protective cover, foam, and tape on the imaging unit.



- 12 Store the imaging unit in its light-protected bag to protect it from light and dust.



- 13 Securely tape the end to prevent toner spillage.



- 14 Grip the tabs at both ends of the transfer unit ① and gently lift it ② out of the printer.

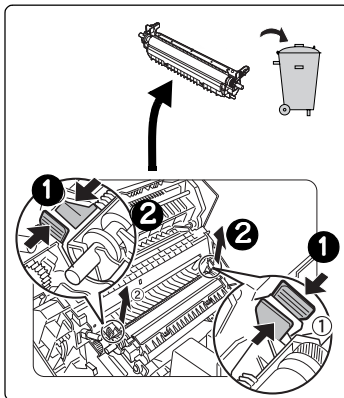


Attention

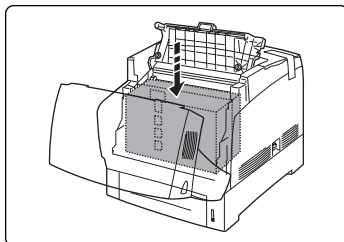
Lift the unit carefully to prevent toner from spilling out.



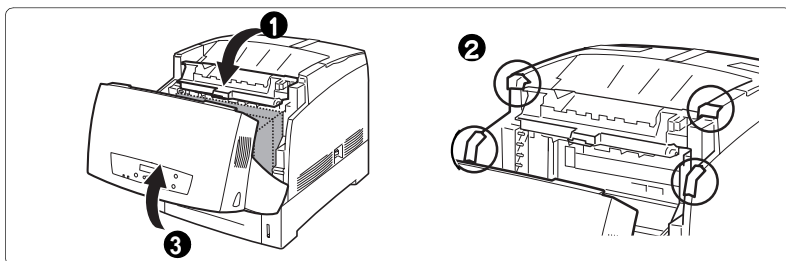
Dispose of the used transfer unit according to your local regulations.



- 15 Place the imaging unit foam spacer into the printer.

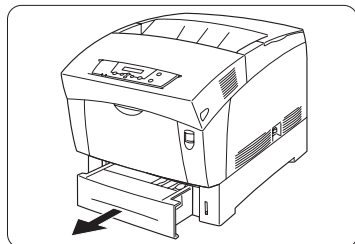


- 16** Close the imaging unit cover ① and place tape as shown below ②.

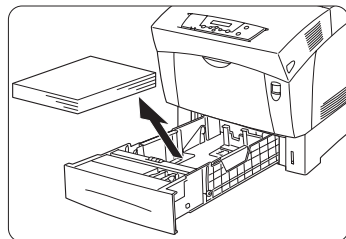


- 17** Close the front cover ③.

- 18** Slide open the media tray.

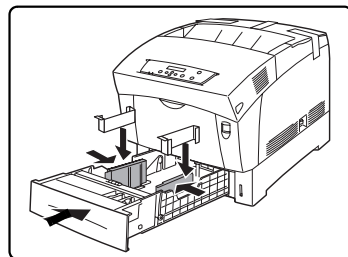


- 19** Remove the media.
Also remove media from the multipurpose tray, if necessary.
Store the media in a dust-free area protected from humidity.

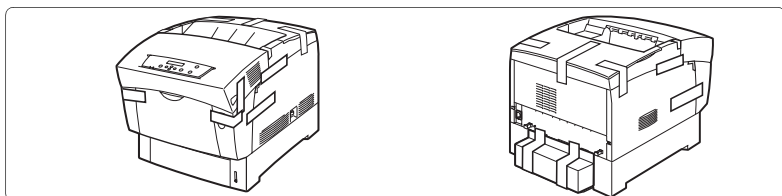


- 20** Replace the media tray spacers and secure them with tape.

- 21** Reinsert the media tray.
Ensure that the media tray is pushed securely in.



- 22** Secure the printer with tape.



Packing the Printer

Before packing the printer, verify that the actions described in the following checklist have been completed.



If you're returning the printer for service, you don't need to return the accessories, toner cartridges, imaging unit, documentation, or power and interface cables.

Checklist

✓	Item	Should be...	Additional information
	RMA number	Received (and placed clearly on the outside of the box)	See page 149
	Replacement Shipping Carton kit part number 1730873-901 (foam, carton, plastic printer bag) Repacking kit part number 1730872-901 (all the original packing materials, including tape and instructions)	Acquired, if necessary	See page 149
	High-capacity input feeder	Removed	See page 147
	Power cord and cables	Removed	See page 150
	Toner cartridges	Removed and packed Toner foam spacer inserted into printer	See page 150
	Imaging unit	Removed and bagged Imaging unit foam spacer inserted into printer	See page 151
	Transfer unit	Removed and disposed of	See page 152
	Media tray(s)	Packed with spacer	See page 153

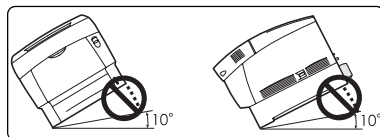
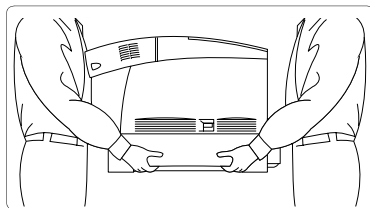
Packing

- 1 With another person's help, put the printer into the plastic bag, and then place the printer onto the base tray.

WARNING!

Your printer weighs approximately 77 lbs (35 kg) fully assembled. Be sure to have help when lifting and moving it.

ACHTUNG! Das Gewicht dieses Druckers beträgt ohne Verbrauchsmaterial ca. 35 kg. Bitte versuchen Sie niemals, den Drucker alleine anzuheben oder zu transportieren.



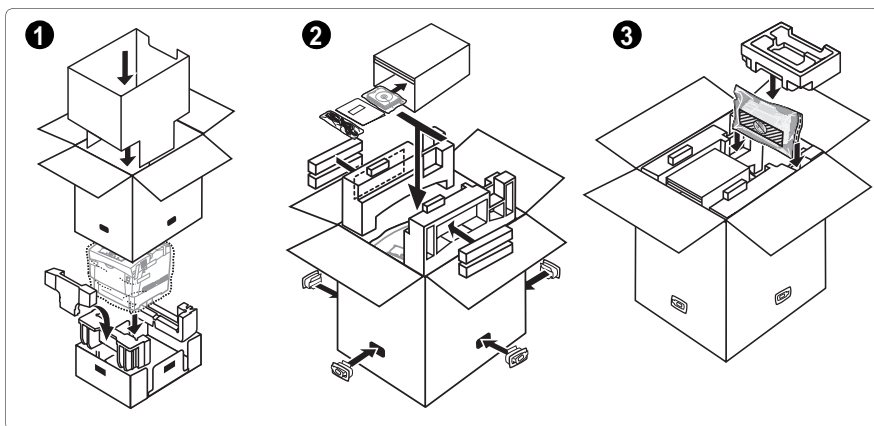
Lift the printer by the front and back carrying grips.



Attention

Do not tilt the printer more than 10° at any time.

- 2 Pack the printer for shipment as shown in the illustrations.



Ensure the shipping carton rests squarely on top of the base tray. Don't ship the toner cartridges or imaging unit if you're returning the printer for service.

- 3 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.

- 4 Ensure that the top of the carton is securely taped.

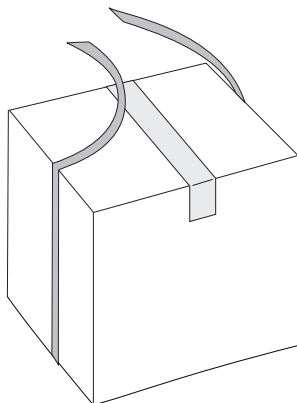
Strapping and Buckling

- 2 lengths of strapping precut to the appropriate length
- 2 buckles to secure the strapping

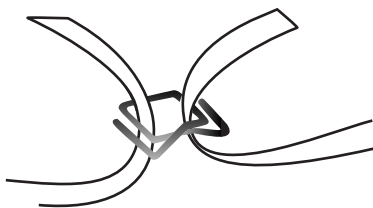


- 1 Thread one end of the strapping beneath the carton.

- 2 Pull the two ends of the strapping together at the top of the carton.



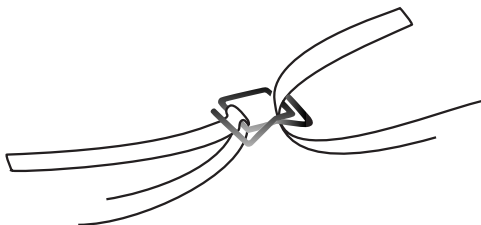
- 3 Thread both ends up through the center of the buckle.



- 4 Weave the slack of one end through the buckle.

- 5 Pull the slack on that end so that the strapping is taut in the buckle.

- 6 Weave the slack of the other end through the buckle.



- 7 Pull all of the remaining slack of the strapping through this side of the buckle, until the buckle is taut against the carton.



- 8 Pull the buckle against the carton as tightly as possible.

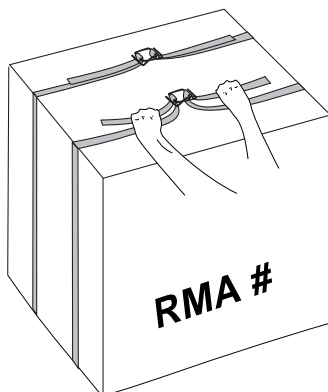
Some slack may still exist.

- 9 Repeat this procedure again, spacing the straps across the carton.

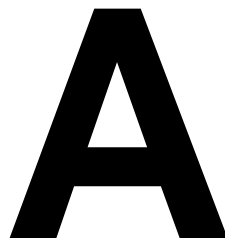
- 10 Place the RMA number *prominently* on the carton.

! Attention

If the RMA number is not *prominently* visible on the outside of the return inventory, MINOLTA-QMS will not accept receipt.



Technical Specifications

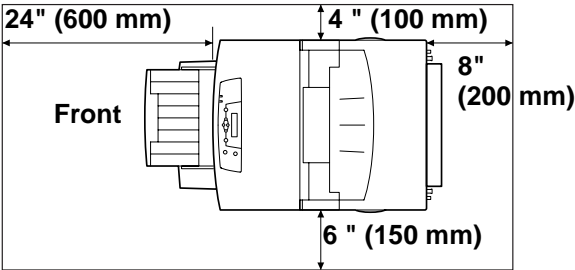



Requirements

Space Requirements

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

Top View



 Allow enough space around the printer to allow adequate ventilation and easy servicing. For best output quality and longest consumables life, install the printer on a hard, flat, level (within $\pm 5^\circ$ slant) surface.

If you have added an HCIF, the printer's height will increase by approximately 19 inches (476 mm).

Location Requirements

- On a surface capable of supporting the printer, accessories, consumables, and media..

Component	Weight
Printer	65 lbs (29.5 kg)
Consumables (such as toner, imaging unit)	12 lbs (5.5 kg) (total)
Media	5.2 lbs (1.9 kg) per ream of 20 lb bond (75 g/m ²) paper
High-capacity input feeder (HCIF)	49.6 lbs (22.5 kg)

With these characteristics...	But away from...
On a hard, flat, stable, level ($\pm 5^\circ$ or less slant at any point around the machine).	Direct sunlight. Heating and cooling sources, extreme temperature or humidity changes, wind, and dust. Open flames or items that can easily burn.

With these characteristics...	But away from...
Close to an easily accessible grounded power supply (on an exclusively dedicated power outlet) that meets printer specifications. Near your computer. At the length 6.5' (2 m) or less for an IEEE 1284 bidirectional parallel connection.	A connection to the same electrical circuit as high-current machines. Noise-generating equipment, such as a copier or air conditioner, and strong magnetic or electromagnetic fields, such as a refrigerator.
With enough space to allow adequate ventilation and easy servicing.	Water, water pipes, liquid (drink) containers, and corrosive chemicals or vapors, such as ammonia.
With an ambient temperature range of 50°–90° F (10°–32° C) and relative humidity range of 15%–85% (noncondensating).	Small, loose metal parts, such as paper clips and staples.
At an altitude of 0–10,170' (0–3,100m).	Excessive vibration.



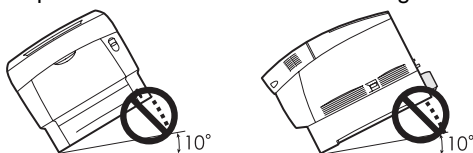
A surface can be tested for levelness with a standard round pencil. If the pencil rolls, the surface is not level. Clear the area of any obstruction or items such as cables that might prevent the printer from sitting directly on the flat, level surface.

WARNING!

Obstructing the ventilation grilles could present a fire hazard.

ACHTUNG! Abdeckung der Ventilator-Schlitze kann ein Feuer auslösen.

- Do not tilt the printer more than 10° when moving it.



- 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.
- 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.

Attention

For products installed outside North America, do not connect the groundwire to gas or water pipes or grounding for telephones.

WARNING!

Obstructing the ventilation grilles could present a fire hazard.

ACHTUNG! Abdeckung der Ventilator-Schlitze kann ein Feuer auslösen.

Power Requirements

WARNING!

Connect the power plug to an outlet with the same rated voltage as the printer (120 or 240 V), and fused for at least 15 amperes (4 amperes for 240 V). No other devices should be connected to this outlet, as overheating could cause fire or electric shock. The printer draws 8 A at 120 V, or 4 A at 240 V. Your printer requires a properly grounded AC outlet with a rated line voltage of 120 V or 220–240 V. The grounding terminal on the power cable should be connected to a good earth ground to prevent electric shock and fire.

ACHTUNG! Schließen Sie das Netzkabel an eine Stromquelle an, die gleiched Voltzahl wie der Drucker hat (120 oder 240 V) und mindestens 15 Ampere gesichert ist (4 Ampere für 240 V). Schließen Sie keine anderen Geräte an diesen Ausgang an, da sonst als Folge von Überhitzung Feuergefahr oder Gefahr eines Stromschlags herrscht. Der Drucker zieht 8 A bei 120 V, oder 4 A bei 240 V. Ihr Drucker benötigt einen geerdeten AC Ausgang mit geregelter Gleichstrom mit 120 V oder 220-240 V. Der Erdungsanschluß des Stromkables sollte gut geerdet werden, um Stromschläge und Feuer zu vermeiden.



In compliance with UL guidelines, “The appliance inlet is considered to be the main disconnect device.”

Power	Japan	100 VAC 50/60 Hz 8 amps
	North America	120 VAC 50 Hz 8 amps
	Europe	220–240 VAC 50/60 Hz 4 amps
	Latin America	115/120 VAC 50/60 Hz 8 amps 220–240 VAC 50/60 Hz 4 amps
	Notes: Amperage capacity at least 1.2 times that used by the printer.	
Voltage Fluctuation Rate and Rated Line Voltage	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 $\pm 10\%$
	Notes: 10% of the rated line voltage for proper operation.	
Frequency Variation Rate	Within 50–60 ± 3 Hz	
Fused	For at least 15 amperes (8 amperes for 240 V).	
Printer	Draws 8 A at 100 V, 110 V, or 120 V; or 4 A at 220 V or 240 V.	
Maximum Electrical Current	Required during operation is 8 amps for a 100 V or a 120 V system and 4 amps for a 220–240 V system.	
Noise-generating Equipment	Should not be connected to the same electrical outlet as the printer.	
Grounding	Your printer requires a properly grounded AC outlet.	

ENERGY STAR Compliance

The magicolor 3100 basic configuration is compliant with US Environmental Protection Agency (EPA) ENERGY STAR regulations. After a user-configurable 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.



EPA POLLUTION PREVENTER

Engine and Controller Specifications

Print Speed

Maximum Print Speed in Pages per Minute	Print Quality			
	Standard or Quality		Fine	
	Simplex	Duplex*	Simplex	Duplex*
A4	16	10.1	8	5.3
A4 Thick Stock 1				
A4 Transparency	8	—	4	—
A4 Thick Stock 2	8	—	8	—
A4 Thick Stock 3				
A4-Sized Label Sheet				
A5	16	10.1	8	5.3
A4 Thick Stock 1				
A5 Thick Stock 2	8	—	8	—
A5 Thick Stock 3				
B5	16	10.1	8	5.3
B5 Thick Stock 1				
B5 Thick Stock 2	8	—	8	—
B5 Thick Stock 3				
Chokei 3	8	—	8	—
Chokei 4				
Custom Paper Size	Varies	—	Varies	—
Envelope	8	—	8	—
Executive	16	10.1	8	5.3
Executive Thick Stock 1	8	10.1	8	5.3
Executive Thick Stock 2	8	—	8	—
Executive Thick Stock 3				
Folio	13.7	9.2	6.9	4.8
Folio Thick Stock 1				
Folio Thick Stock 2	6.9	—	6.9	—
Folio Thick Stock 3				
Kai 16 (plain paper)	16	10.1	8	5.3
Kai 32 (plain paper)				

Maximum Print Speed in Pages per Minute	Print Quality			
	Standard or Quality		Fine	
Legal	13.7	9.2	6.9	4.8
Legal Thick Stock 1				
Legal Thick Stock 2	6.9	—	6.9	—
Legal Thick Stock 3				
Letter	16	10.1	8	5.3
Letter Thick Stock 1				
Letter Thick Stock 2	8	—	8	—
Letter Thick Stock 3				
Letter-Sized Label Sheet				
Letter Transparency				
Postcard (Japanese)	8	—	8	—
Notes: * Duplexing is supported only up to 28 lb (105 g/m ²) bond. Duplexing envelopes, glossy stock over 28 lb (105 g/m ²) bond, labels, thick stock over 28 lb (105 g/m ²), and transparencies is not supported.				



Engine



Engine	Fuji-Xerox Hanobi
Standard average duty cycle	3,000 simplex letter/A4 pages per month The duty cycle is affected by the media type and percent coverage.
Printer type	Desktop, non-impact, color printer
Print method	Scanner: Semiconductor laser with rotating mirror Recorder: Black writing electrophotographic Process: Cyan, magenta, yellow, and black toner image transfer to print media Fuser: Heated rollers

Resolution	600 x 600 dpi (default) 1200 x 1200 dpi You may also need additional memory (DIMMs) for the following: <ul style="list-style-type: none"> ■ To print at maximum performance ■ To print complex graphics or complex PostScript documents ■ For increased collation performance ■ For increased spooling performance
Toner	Type: Chemical-type Packaging: User-replaceable toner cartridges Keyed toner cartridges are available from your local vendor or from www.q-shop.com . See the <i>Service & Support Guide</i> or www.minolta-qms.com for information.
Warm-up time	Typical: 90 seconds from power on, assuming normal temperature and humidity. After New Imaging Unit Installed: 6 minutes.
Input sources	Standard: 100-sheet (face up) multipurpose tray 500-sheet (face down) upper tray Optional: two 500-sheet (face down) trays in the HCIF
Output	250-sheet (face down) output tray on top of printer
Media sizes and weights	See "Using Media" on page 23.
Media type	Cut-sheet
Notes	The maximum media weight supported for duplex printing is 28 lb bond (105 g/m ²).

Controller

CPU	QED 7065a, operating at 350 MHz
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Resident emulations	<p>PostScript—Level 3 (600/1200 dpi)</p> <p>HP PCL—PCL5e—LaserJet 4000, PCL5c—Color LaserJet 4500, PCLXL—Color LaserJet 4500</p> <p>PDF—Version 1.3 and below</p> <p> <i>Direct printing of complex or large PDF files may require additional memory and/or a hard disk.</i></p> <p>HP-GL—7475A/7550/Draftmaster (300/600 dpi)</p> <p>Lineprinter—(600 dpi)</p>
Optional emulations	<p>ImageServer (monochrome only)</p> <p>CGM</p> <p>LN03 Plus (300 dpi monochrome only)</p>
Fonts	<p>PostScript—137 resident PostScript fonts that can be scaled from 4 points upward and rotated to any angle in 1° increments; all typefaces have multilingual character sets</p> <p>HP PCL 5e, 5c—80 scalable and 9 bitmap typefaces</p> <p>PCL XL—80 scalable and 9 bitmap typefaces</p> <p>HP-GL—40 resident HP-GL symbol sets</p> <p>Type 1 / Type 3 Support—Support for Type 1 and Type 3 host-resident downloadable PostScript fonts</p> <p>TrueType—Support for Type 42 (PostScript format) host-resident downloadable TrueType fonts, support for TrueType fonts in PCL</p>
Optional Kanji fonts	<p>Hard disk—MINOLTA-QMS Kanji Internal IDE Hard Disk Drive with two Morisawa fonts</p>
Standard interfaces	<p>CrownNet Ethernet—10BaseT/100BaseTX</p> <p>Parallel—Centronics/IEEE 1284 bidirectional</p> <p>USB—USB Type B connector</p> 
Optional interfaces	<p>Network interface—Support for one optional network interface (CrownNet for Ethernet, supporting EtherTalk, LAN Manager/LAN Server, Netware, and TCP/IP; CrownNet for Token-Ring, supporting LAN Manager/LAN Server, NetWare, and TCP/IP; or Crown for DECnet-TCP/IP)</p> <p>SCSI interface—Support for one external SCSI hard disk (up to 2 GB), Jaz drive, or Zip drive</p>

RAM	Type: PC-100 Compliant SDRAM DIMMs Base system RAM: 256 MB Total RAM: Upgradable to 512 MB (through 2 DIMM connectors)
Optional RAM	64, 128, and 256 MB DIMMs  <i>For information about DIMMs recommended for your printer, see the magicolor 3100 Answer Base through the Internet at www.minolta-qms.com/support/, or contact Support. See the Service & Support Guide for more information.</i>
System software	Softloadable; stored in Flash ROM
Optional Internal IDE hard disk	Up to 2.2 GB  <i>For information about hard disks recommended for your printer, see the magicolor 3100 Answer Base through the Internet at www.minolta-qms.com/support/, or contact Support. See the Service & Support Guide for more information.</i>
Time-of-day clock	Optional
Job accounting	Crown job accounting; requires an optional internal IDE hard disk drive
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 60 Hz ± 2 Hz Japan: 100 volts $\pm 10\%$ at 50/60 Hz ± 2 Hz International: 220-240 volts $+6/-10\%$ at 50 Hz ± 2 Hz		
Phase	Single		
Power consumption	Mode	Average	Maximum
	Operation	450 watts	850 watts
	Standby	180 watts	850 watts
	Power saver		45 watts

Certification	ENERGY STAR compliant
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Current

Mode	Average	Maximum
Operation (100–120 V)	4 amperes	8 amperes
Operation (220–240 V)	0.75 amperes	4 amperes
Standby Power saver mode (100–120 V)	1.7 amperes	8 amperes
Standby Power saver mode (220–240 V)	0.2 amperes	4 amperes

Environmental

Acoustic noise data by ISO 7779	Measured in Standby: 32.1 dB Regulation: 38 dB Max. Measured in Printing: 55.8 dB Regulation: 57 dB Max.
Relative humidity	Operating: 20-80% RH (noncondensing) Transportation/Storage: 10–90% RH (non-condensing)
Temperature range	Operating: 50-90.5° F (10-32.5° C) Transportation/Storage: 32-95° F (0-35° C)
Altitude	Operating: 0-8202 ft (0-2500 m)
Inclination	Operating: ±5° or less slant at any point around the machine

Optimal Operating Range

Acceptable Operating Range

Ambient Humidity (%RH)

Ambient Temperature

10	17.5	20	27	30	32.5
50	63.5	68	80.6	86	95.0
					C°
					F°

Physical

	Main Body	High-capacity Input Feeder
Dimensions	W: 17.28 in., 439 mm H: 17.52 in., 445 mm D: 25.12 in., 638 mm	W: 22.48 in., 571 mm H: 29.37 in., 746 mm D: 18.74 in., 476 mm
Weight (excluding consumables)	Unpacked: 65 lbs (29.5 kg)	Unpacked: 49.6 lbs (22.5 kg)
Weight (including consumables)	77 lbs (35 kg)	

Consumable Life Expectancies

The stated life expectancy of each consumable is based on printing under specific operating conditions, such as media type, page size, content of material printed, and page coverage (usually 5% coverage of letter/A4-size media). The actual life expectancy will vary (or be reduced) depending on these and other printing variables, including continuous (optimal consumable life) or intermittent (for example, one-page jobs) printing, ambient temperature, and humidity.

Fuser Unit and Media Feed Roller(s)	Approximately 100,000 simplex pages. <i>Replace the fuser and the media feed rollers at the same time.</i>
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Imaging Unit*		or	Imaging Unit*	
Number of Pages per Job	Maximum Simplex Pages		Percent Toner Coverage (Four-Page Average)	Maximum Simplex Pages
1	12,500		35%–40%	15,000
2	21,000		30%–35%	17,000
3	26,000		25%–30%	20,000
4 (Average Size)	30,000		20%–25%	23,000
5 and Above	30,000		Less Than 20%	30,000
Notes: *The imaging unit life is dependent on the average number of pages or the toner coverage, whichever comes first . For example, if you print four-page simplex jobs at 5% coverage, the maximum is 30,000 pages. If you print four-page simplex jobs, and your black (or any color) toner has exceeded a total of 35% coverage, your maximum is 15,000 pages. The highest coverage of color will lead the life of the imaging unit, not the average of four colors. <i>A simple display of pages remaining on your imaging unit life is in your CrownView Statistics. For more information, see the CrownBooks.</i>				

Toner	Percent Coverage of Letter/A4 Simplex Pages (Average Job Size of Four Continuous Pages)							
	5%	10%	15%	20%	25%	30%	35%	40%
Black	8,500	4,250	2,833	2,125	1,700	1,417	1,214	1,063
Yellow, Magenta, Cyan	6,000	3,000	2,000	1,500	1,200	1,000	857	750

Transfer Unit (with built-in waste toner box)	Approximately 25,000 simplex pages
--	------------------------------------

Notes	<p>*The imaging unit (4 OPCs, 4 developers, imaging unit transfer roller) life is dependent on the average number of pages or the toner coverage, whichever comes first. For example, if you print four-page simplex jobs at 5% coverage, the maximum is 30,000 pages. If you print four-page simplex jobs, and your black (or any color) toner has exceeded a total of 35% coverage, your maximum is 15,000 pages. The highest coverage of color will lead the life of the imaging unit, not the average of four colors. <i>A simple display of pages remaining on your imaging unit life is in your CrownView Statistics. For more information, see the CrownBooks.</i></p> <p>A plane is a single pass of media past the imaging unit. A two-sided (duplex) page (also called a sheet) consists of two passes of the imaging unit.</p> <p>The number of sheets printed shown on the startup page may differ from the sheets printed and faces printed statistics in CrownView and on the consumables statistics page (Operator Control/Consumables/Print Statistics). The numbers on the startup page refer to number of sheets/faces printed during the lifetime of the printer.</p> <p>The numbers in CrownView and on the consumables statistics page refer to the number of sheets/faces printed to date during the current consumables tracking period (Administration/Consumables/Start Period menu).</p>
--------------	---

Use of consumables not manufactured by MINOLTA-QMS or use of nonsupported print media may cause damage to your printer and will void your warranty. If MINOLTA-QMS printer failure or damage is found to be directly attributable to the use of non-MINOLTA-QMS consumables and/or accessories, 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.

To order consumables and accessories, go to www.q-shop.com or check www.minolta-qms.com or the *Service & Support Guide* for the MINOLTA-QMS office closest to you.

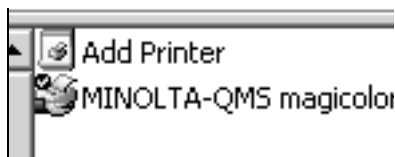
IPP has two meanings:

- 1 Internet Printing Protocol**—Internet Printing Protocol allows you to print remotely to any IPP-enabled printer through both intranets and the Internet. All printers, including the magicolor 3100, that are shared on a Windows 2000 (and higher)-based server are automatically made accessible by using the Internet Printer Protocol (IPP). This technology allows for electronic distribution of documents via the Internet, and communication between the user and the printer. You can submit jobs, inquire about the status of a printjob, and cancel a job.

Internet printing in Windows 2000 is automatically enabled by installing Microsoft Internet Information Services (IIS). Clients that are running Microsoft Internet Explorer 4.01 (and later) with IPP printing support can print to Internet printers. IPP (which is case-sensitive) is built on top of HTTP, which in turn runs over TCP/IP.

- a** After the driver is installed, select Start/Settings/Printers/Add Printer.

- b** Click Next; then select Network Printer; then click Next.



- c** Select “Connect to a printer on the Internet or on your intranet”.

- d** Enter the URL, for example: `http://iphostname:80/printer_name`.

iphostname:80 = printer name in the host table, or the printer IP address. The iphostname is acquired from the System Administrator.

*printer_name = the printer name given on the startup or status page
(do not include spaces or underscores in the name).*



For instructions on changing your default printer name, refer to the CrownBooks.

- e** Click Next and follow the instructions on the screen.

- f** Print a test page, and verify that the test page printed.

Windows 98/95-based clients can install the add-on Internet printing client from the Windows 2000 Server CD-ROM by using the following command:

```
\\clients\win9xipp.cli\wppins.exe
```

2 Internet Pull Printing—Internet Pull Printing is a way to download files the printer can interpret already (such as PS, PCL, HPGL) and send them to the printer without having to download them to a computer first.



Internet Pull Printing does not provide an HTML emulation that prints web pages.

To do effective pull printing, you have to be able to access both “http” and “ftp” methods.

Internet Pull Printing is activated through the printer's web page (CrownView). One of the menu selections you will see on the printer's browser page is Internet Pull Printing. When the menu item is selected, you are presented with several fields to populate.

- a** No User name is required.
- b** Password is “admin” (all lower case, without the quotes).
- c** URL is the web address of the file you wish to print to the printer, for example: <http://newsite.test.com/testfile.ps>.



The Use Proxy check box and the DNS/PROXY Settings are fields that will best be addressed by your System Administrator according to your network environment.

- d** Once the password and URL have been input, simply select the Pull File button. You should receive a message that lists the URL address and file, saying that it has been queued to print.

Internet traffic will factor into print speed and how fast the job is received.



If you incur any error messages, or your file does not print, contact your System Administrator to discuss the information on the Use Proxy check box and the DNS/PROXY Settings page.

Document Option Commands

This lists the supported Document Option Commands (DOCs) for your magicolor 3100. The commands are grouped by feature type.

Each command is preceded by either a DOC statement (%%) or an IncludeFeature statement (%%IncludeFeature). See the *Crown Document Option Commands* manual for information on all other commands.

Header/Trailer Page Commands

Print charge number	%%ChargeNumber
Print copyright statement	%%CopyRight:
Print document creator	%%Creator:
Print creation date and time	%%CreationDate:
Print current date	%%Date:
End comments	%%EndComments
Print document owner	%%For:
Print document host	%%Host:
	%%Pages
Job completion notification via email	%%Notify
Select page order	%%PageOrder
Save job for reprinting (proof and print)	%%Reprint:
Print routing information	%%Routing:
Print document title	%%Title:
Print version and revision	%%Version:
Print header page	%%IncludeFeature: header
Print trailer page	%%IncludeFeature: trailer

HP-GL Emulation Commands

Select enhanced resolution	%%IncludeFeature: enhanced
Expand plot	%%IncludeFeature: expand
Select original paper size	%%IncludeFeature: size
Select pen width and color	%%IncludeFeature: pen
Select plotter	%%IncludeFeature: plotter
Scale the image	%%IncludeFeature: scaling
Set origin	%%IncludeFeature: origin

HP PCL 5e Emulation Commands

Install object	%%IncludeFeature: install
Remove object	%%IncludeFeature: remove
Remove resource	%%IncludeFeature: removeresource

Retain temporary	%%IncludeFeature: retaintemporary
Select default font	%%IncludeFeature: font
Select default font ID	%%IncludeFeature: fontid
Reset	%%IncludeFeature: reset
Select symbol set	%%IncludeFeature: symbolset
Set carriage return to CR+LF	%%IncludeFeature: crisrlf
Set linefeed to CR+LF	%%IncludeFeature: lfisrlf
Set number of lines per inch	%%IncludeFeature: linesperinch
Set point size	%%IncludeFeature: pointsize
Resource	%%IncludeFeature: resource

Lineprinter Emulation Commands

Select font for current job	%%IncludeFeature: font
Set point size for current job	%%IncludeFeature: pointsize
Specify character map type	%%IncludeFeature: map
Number lines	%%IncludeFeature: number
Set tabs	%%IncludeFeature: tabs
Set linefeed to CR+LF	%%IncludeFeature: lfisrlf
Set carriage return to CR+LF	%%IncludeFeature: crisrlf
Set formfeed to CR+FF	%%IncludeFeature: ffisrff
Wrap lines	%%IncludeFeature: autowrap
Set number of lines per page	%%IncludeFeature: linesperpage
Set margins	%%IncludeFeature: lpmargins
Set orientation	%%IncludeFeature: lporientation

PostScript Emulation Command

SC 215 to set PostScript protocol	%%IncludeFeature: parpsprotocol x
-----------------------------------	-----------------------------------

CCITT Groups 3 and 4 Commands

Start decompression	%%ImageData
Set encoded byte flag	%%EBAMode
Set end of block	%%BlockEnd
Set line end	%%LineEnd
Eject page	%%PageEnd
Set image position	%%ImagePosition
Invert image	%%InvertImage
Set dpi for image expansion	%%DPI
Set data compression	%%Compression
Reverse bits	%%BitReverse
End print job	%%JobEnd
Set image size	%%ImageSize

Set image rotation	%%Rotation
Set source image origin	%%SourceImageOrigin
Set source image position	%%SourceImagePosition

Document Formatting

Logical page orientation	%%IncludeFeature: pageorientation
Number up printing	%%IncludeFeature: pagegrid
Offset logical page	%%IncludeFeature: pageoffsets
Print borders	%%IncludeFeature: border
Scale logical page	%%IncludeFeature: pagescaling
Print background images	%%IncludeFeature: background
Set printer resolution	%%IncludeFeature: resolution
Print page range	%%IncludeFeature: pagerange
Duplex printing	%%IncludeFeature: duplex
Collate print job	%%IncludeFeature: collate
Logical page size	%%IncludeFeature: pagesize
Select number of copies	%%IncludeFeature: numcopies
Select paper	%%IncludeFeature: input
Select paper	%%IncludeFeature: output
Select orientation	%%IncludeFeature: orientation
Select emulation	%%IncludeFeature: emulation
Logical margins	%%IncludeFeature: margins
New page layout	%%IncludeFeature: newlayout
Select color separations	%%IncludeFeature: colorseparation
Select color or monochrome	%%IncludeFeature: colormodel
Media type (such as thick stock)	%%IncludeFeature: mediatype

Job and Subjob Boundary Commands

Sessions (only via network interface)	%%Sessions
End of document	%%EndOfDocument
	<ESC>%-12345X

LN03 Plus Commands (Optional Emulation Required)

Identify product	%%IncludeFeature: product
Control line wrap	%%IncludeFeature: autowrap
Specify default paper size	%%IncludeFeature: paper_size
Control transformation point	%%IncludeFeature: paper_size_override
Adjust image horizontally	%%IncludeFeature: xorigin
Adjust image vertically	%%IncludeFeature: yorigin
Set power-up configuration	%%IncludeFeature: reset_override

CALS Commands (Optional Emulation Required)

Automatic rotation of image
Automatic scaling of image

%%IncludeFeature: autorotation
%%IncludeFeature: autoscaling

TIFF Commands (Optional Emulation Required)

Automatic rotation of image
Up or down scaling of image
Automatic selection of paper size
Annotation
Reverse image control
Control disk scratchfile size
Set annotation tag number

%%IncludeFeature: autorotation
%%IncludeFeature: autoscaling
%%IncludeFeature: sheetsel
%%IncludeFeature: annotation
%%IncludeFeature: reverse
%%IncludeFeature: scratchfile
%%IncludeFeature: tag

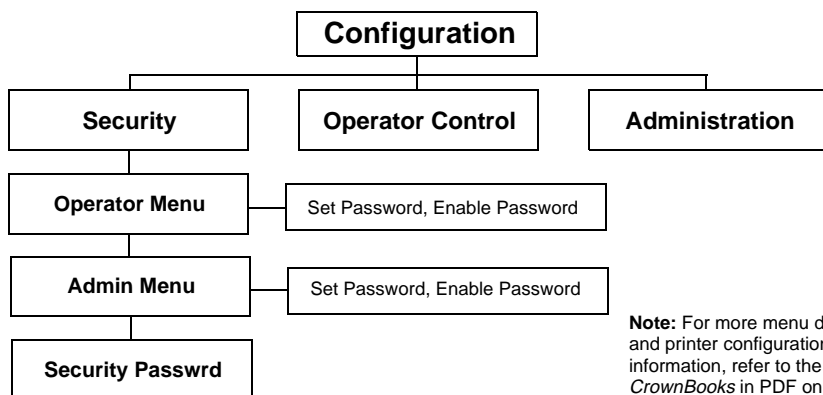
Menus

Configuration Chart Conventions

The following conventions are used in the menu charts:

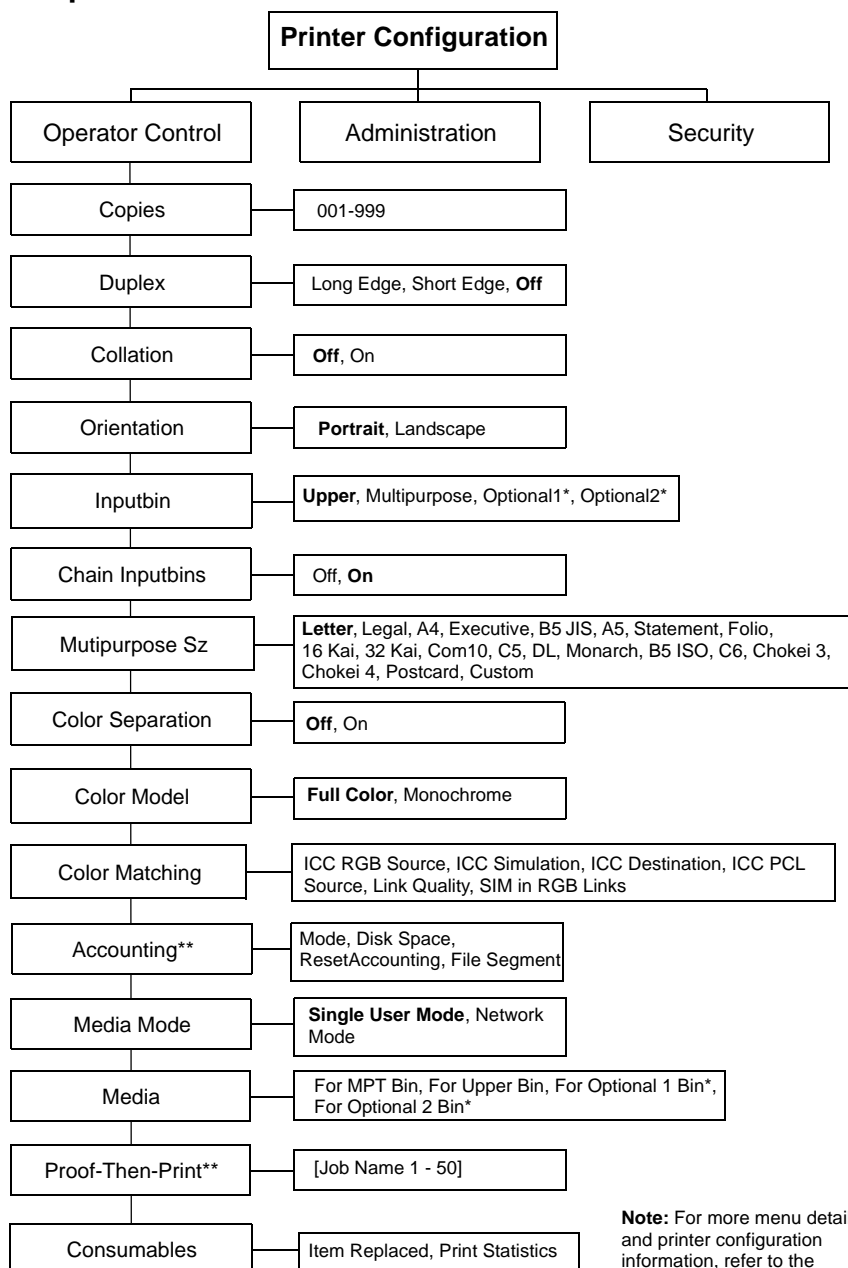
- Some menu choices are marked as optional, indicating that the selection appears in the menu only when the option is installed.
- These charts show only the top-level menus. See the *CrownBooks* for detailed information on menu options.

Security Menu



Note: For more menu details and printer configuration information, refer to the *CrownBooks* in PDF on the *Software Utilities* CD-ROM.

Operator Control Menu



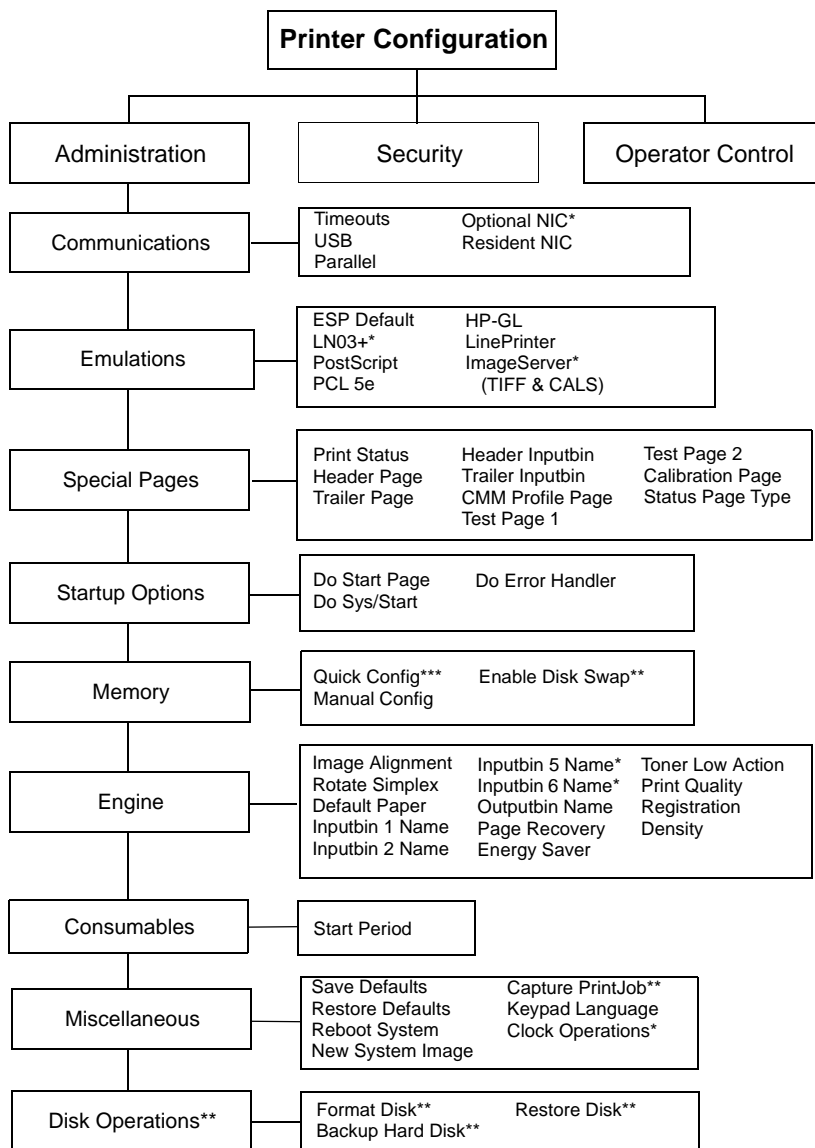
*Only with an optional large-capacity input feeder installed

**Only with an optional hard disk installed

Bold = Default

Note: For more menu details and printer configuration information, refer to the *CrownBooks* in PDF on the *Software Utilities* CD-ROM.

Administration Menu



*Optional

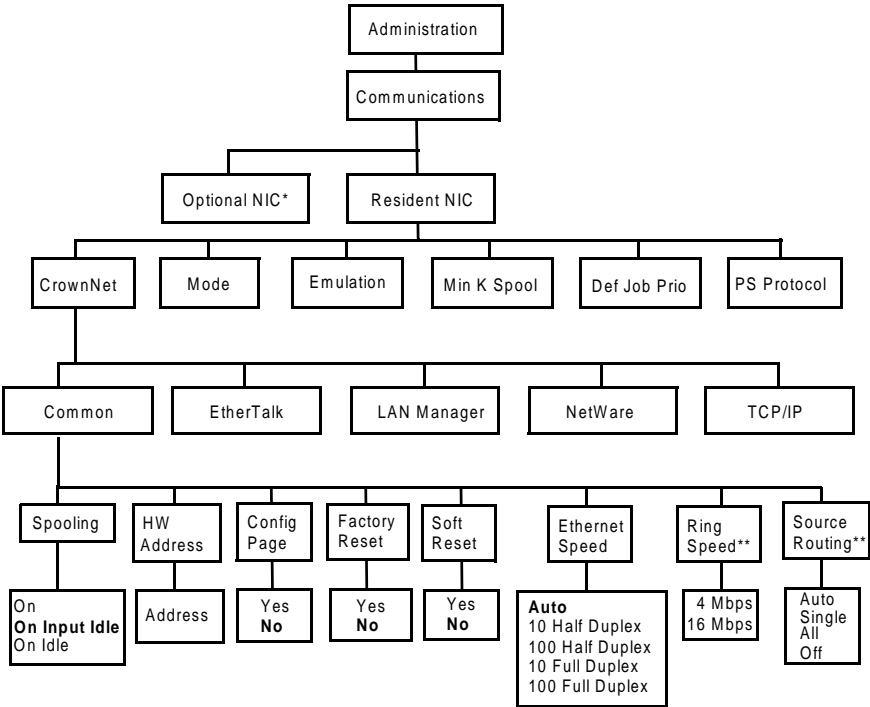
**Only with an optional hard disk installed

***Not displayed if a hard disk is installed

Note: For more menu details and printer configuration information, refer to the *CrownBooks* in PDF on the *Software Utilities* CD-ROM.

Administration/Communications/Resident NIC/ CrownNet Menu

Common Menu

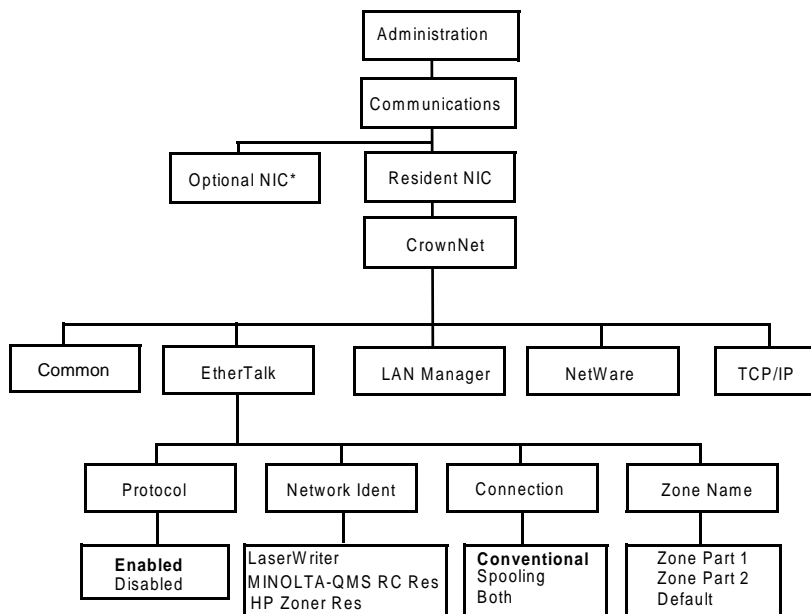


*Optional

**Token-Ring only

Note: For more menu details and printer configuration information, refer to the *CrownBooks* in PDF on the *Software Utilities* CD-ROM.

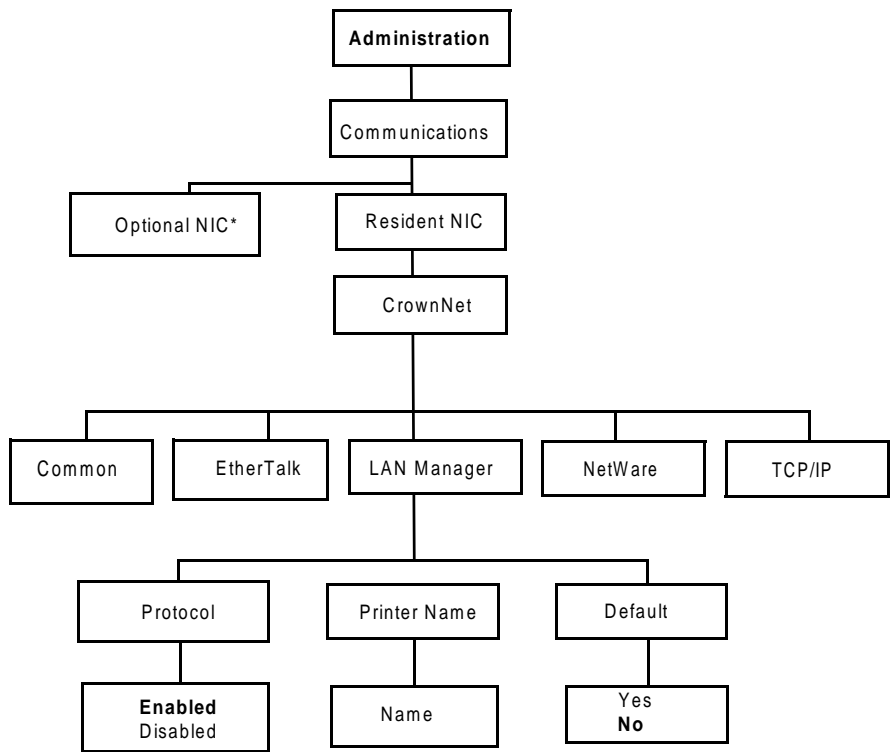
EtherTalk Menu



*Optional

Note: For more menu details and printer configuration information, refer to the *CrownBooks* in PDF on the *Software Utilities* CD-ROM.

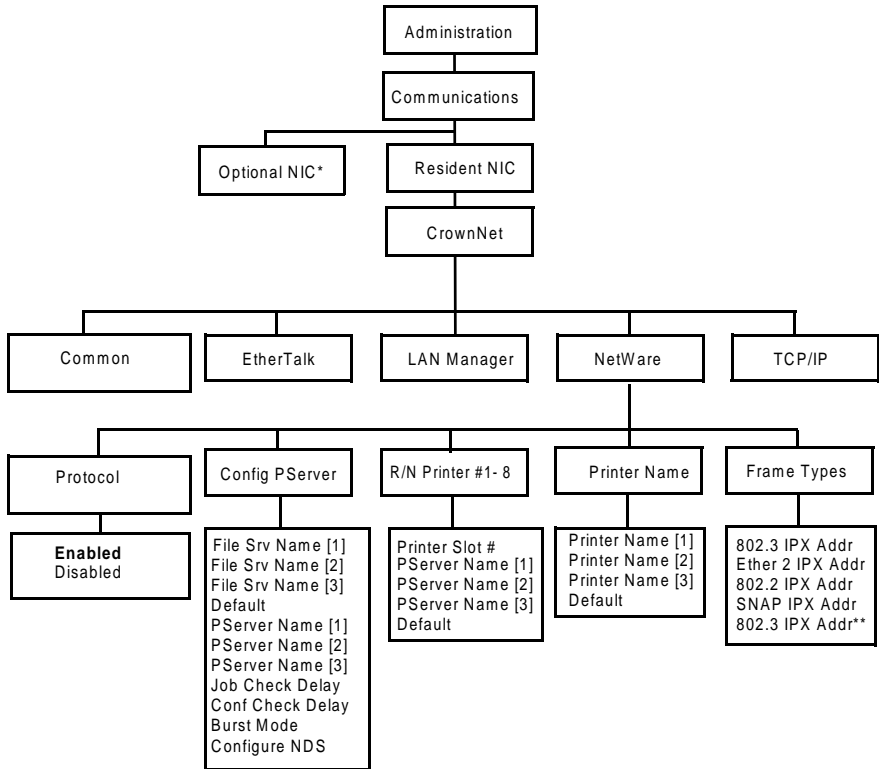
LAN Manager Menu



*Optional

Note: For more menu details and printer configuration information, refer to the *CrownBooks* in PDF on the *Software Utilities* CD-ROM.

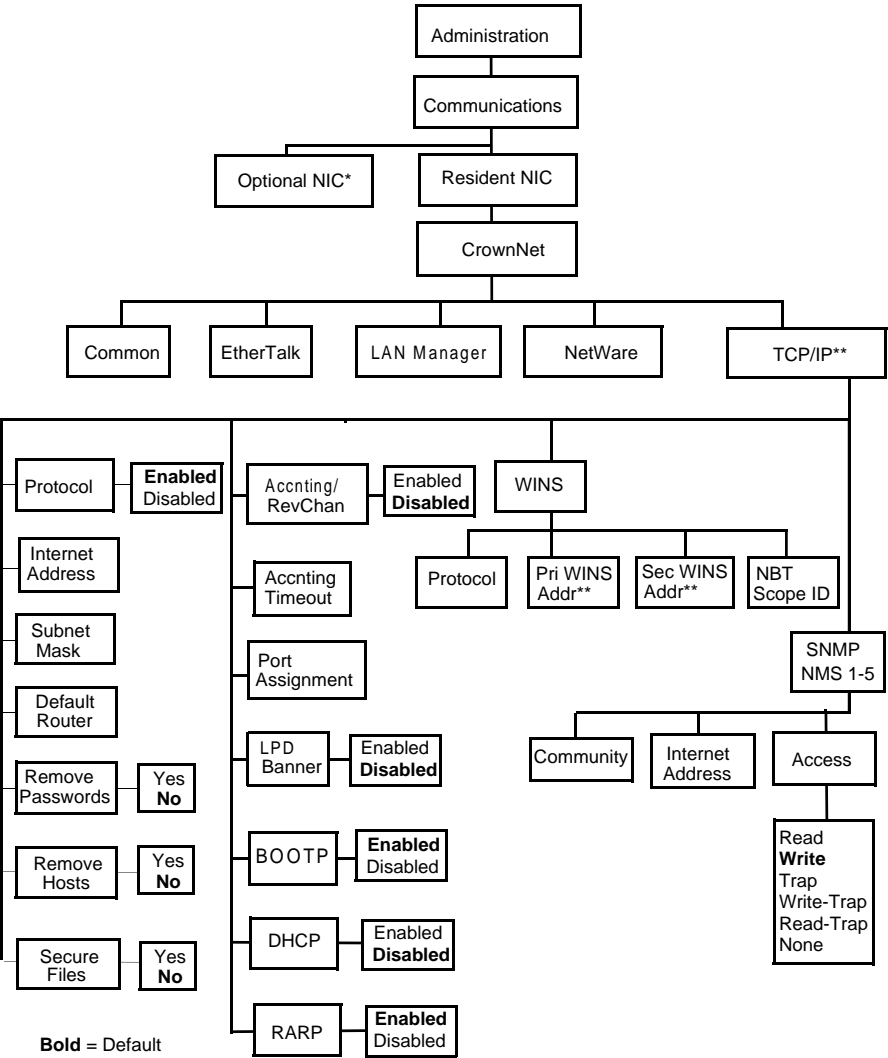
NetWare Menu



*Optional
**Token-Ring only

Note: For more menu details and printer configuration information, refer to the *CrownBooks* in PDF on the *Software Utilities* CD-ROM.

TCP/IP Menu



Bold = Default

**Optional*

** Pri and Sec WINS Addr are IP addresses of the Primary and Secondary WINS servers (default 0.0.0.0). Default for DHCP and WINS is disabled. NBT Scope ID is any valid DNS domain name consisting of 2 dot-separated parts, or a "" (default blank). An empty string (blank value) is ignored.

Note: For more menu details and printer configuration information, refer to the *CrownBooks* in PDF on the *Software Utilities* CD-ROM.

Manufacturer's Declaration of Conformity

Europe 220 Volt

We:

MINOLTA-QMS Europe B.V.

(supplier's name)

Edisonbaan 14-E, 3430 BL Nieuwegein, The Netherlands

(address)

declare under our sole responsibility that the product

magicolor 3100

(base product family name)

MC3100-2

(model number located on dataplate)

KAB-1

(print engine model/type number)

to which this declaration relates is in conformity with the following standard(s) or other normative document(s)

EN 60950:1992+A1+A2+A3+A4+A11.

CB Scheme in accordance with IEC 60950:1991+A1:1992+A2: 993+A3: 1995+A4:1996.

CB Certificate No. US-TUVR-0949.

EN 60825-1:1994+A11.

EN 60825-1:1993+a1.

EN 55022:1994+A1:1995+A2:1997 Class A applies for systems configured with Token-Ring installed.

EN 55022:1998, Class B applies to USB, Parallel and Ethernet configuration.

EN 55024:1998.

EN 61000-3-2:1995+A1:1997+A2:1998.

EN 61000-3-3:1995.

IEC 61000-4-2:1995+A1:1998+A2:2000.

IEC 61000-4-3:1995+A1:1998+A2:2000.

IEC 61000-4-4:1995+A1:2000.

IEC 61000-4-5:1995+A1:2000.

IEC 61000-4-6:1996+A1:2000.

IEC 61000-4-8:1993+A1:2000, and

IEC 61000-4-11:1994+A1:2000.

(title and/or and number and date of issue of the standard(s) or other normative document(s))

(if applicable) following the provisions of 73/23/EEC, 89/336/EEC Directive(s).

Nieuwegein, The Netherlands—September, 2001

(place and date of issue)

Manufacturer's Declaration of Conformity

Latin America 110 Volt

We:

MINOLTA-QMS, Inc.

(supplier's name)

One Magnum Pass, Mobile, Alabama, USA, 36618

(address)

declare under our sole responsibility that the product

magicolor 3100

(base product family name)

MC3100-1

(model number located on dataplate)

KAA-1

(print engine model/type number)

to which this declaration relates is in conformity with the following standard(s)
or other normative document(s)

UL 1950 Third Edition, 1995; cUL CAN/CSA C22.2 No. 950-M95;

FCC Class B Digital Device Title 47 CFR Ch. I., Part 15;

FCC Class A Digital Device Title 47 CFR Ch. I., Part 15 applies for systems
configured with Token-Ring installed;

Industry Canada ICES-003 Issue 3 Class B Digital Device;

Industry Canada ICES-003 Issue 3 Class A Digital Device applies for sys-
tems configured with Token-Ring installed;

EPA ENERGY STAR Office Equipment Program;

CDRH Laser Safety Title 21 CFR Ch. I., Subchapter J;

MSDS Title 29 CFR Ch. XVII, Part 910.1200.

(title and/or and number and date of issue of the standard(s) or other normative
document(s))

(if applicable) following the provisions of N/A Directive(s).

Mobile, Alabama, USA—September, 2001

(place and date of issue)

Manufacturer's Declaration of Conformity

Latin America 220 Volt

We:

MINOLTA-QMS, Inc.

(supplier's name)

One Magnum Pass, Mobile, Alabama, USA, 36618

(address)

declare under our sole responsibility that the product

magicolor 3100

(base product family name)

MC3100-2

(model number located on dataplate)

KAB-1

(print engine model/type number)

to which this declaration relates is in conformity with the following standard(s)
or other normative document(s)

EN 60950:1992+A1+A2+A3+A4+A11.

CB Scheme in accordance with IEC 60950:1991+A1:1992+A2:1993+A3:
1995+A4:1996.

CB Certificate No. US-TUVR-0949.

EN 60825-1:1994+A11.

EN 60825-1:1993+a1.

EN 55022:1994+A1:1995+A2:1997 Class A applies for systems configured
with Token-Ring.

EN 55022:1998, Class B applies to USB, Parallel and Ethernet configuration.

EN 55024:1998.

EN 61000-3-2: 1995+A1: 1997+ A2:1998.

EN 61000-3-3:1995.

IEC 61000-4-2: 1995+A1:1998+A2:2000.

IEC 61000-4-3:1995+A1:1998+A2: 2000.

IEC 61000-4-4: 1995+A1:2000.

IEC 61000-4-5: 1995+A1:2000.

IEC 61000-4-6: 1996+A1:2000.

IEC 61000-4-8: 1993+A1:2000, and

IEC 61000-4-11:1994+A1:2000.

(title and/or number and date of issue of the standard(s) or other normative
document(s))

(if applicable) following the provisions of 73/23/EEC, 89/336/EEC
Directive(s).

Mobile, Alabama, USA—September, 2001

(place and date of issue)

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