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# **PagePro® 9100**

## **User's Guide**

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**1800672-001B**

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## Thank You

Thank you for purchasing a MINOLTA-QMS printer.

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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/](http://www.onlineregister.com/minolta-qms/)

**Internet**—Follow the instructions on [www.onlineregister.com/minolta-qms/](http://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". The URL is www.minolta-qms.com. Below the header, a note states "Asterisks (\*) indicate required fields." The form contains the following fields: First Name \*, Last Name \*, E-mail Address \*, Company Name, Address 1 \*, Address 2, City \*, State/Province \* (with a "Click to Select" dropdown), Province/Country, if outside USA/Canada, ZIP/Postal Code \*, Country \* (with a "Click to Select" dropdown), Phone, and Fax. At the bottom, there is a section for "Preferred method of contact" with radio buttons for Mail (selected), Fax, E-Mail, and Phone. Navigation buttons "Next >" and "Cancel" are at the bottom right, along with a page indicator "1 of 3".

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# ***Replacing Consumables***

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# **1**

# Introduction

Item	Page
"What is a <b>consumable</b> ?"	page 3
"What is a <b>face</b> ?"	page 3
"What is the <b>life expectancy</b> of consumables?"	page 4
"How do I <b>order</b> consumables?"	page 5
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"How do I replace <b>rollers</b> ?"	page 14
"How do I replace the <b>transfer roller</b> ?"	page 20



# Consumable Life Expectancies

## What is a consumable?

A consumable is an item that needs to be replaced at regular intervals. For the PagePro 9100, consumables include:

### Service replaceable

- Fuser

### User replaceable

- Toner cartridge and exhaust filter
- Pickup rollers
- Transfer roller

Although the printer was designed for printing on a wide range of media types, it is not intended to print exclusively on a single media type except plain paper. Continuous printing on media other than plain paper (such as envelopes, labels, thick stock, or transparencies) may adversely affect print quality or reduce engine life.

## What is a face?

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



*The number of sheets printed statistics shown on the startup page may differ from the sheets printed and faces printed statistics in CrownView (a printer-based application for accessing printer configurations, status, and consumables usage information) 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 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).*

*For further information about CrownView, refer to the CrownBooks in PDF on the Documentation CD-ROM.*

## What is the life expectancy of consumables?

### Attention

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Consumable life is expressed in simplex letter/A4 pages @ normal 5% coverage in continuous printing. A duplex page is equivalent to two simplex pages.

The stated life expectancy of each consumable is in page coverage (usually 5% coverage of letter/A4-size media), and continuous printing—for example, an average four-page run length (optimal consumable life), or intermittent printing—for example, one-page jobs.

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

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### Attention

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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.

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## Consumables Life Expectancies Chart

Item	Average Life Expectancy (in Simplex Pages)	Comment
<b>Fuser (see also Media Pickup Rollers)</b>	300,000 intermittent printing (for example, one-page jobs)  500,000 continuous printing (average four-page jobs)	The fuser must be replaced by a MINOLTA-QMS-authorized service provider. Refer to the <i>Service &amp; Support Guide</i> or <a href="http://www.minolta-qms.com">www.minolta-qms.com</a> .
<b>Toner Cartridge and Exhaust Filter</b>	At 5% coverage, <b>Starter Cartridge</b> = 6,000 <b>Replacement Cartridge</b> = 15,000 continuous printing or 12,000 intermittent printing ( TONER EMPTY displays in the message window.)	Replace the toner cartridge and the exhaust filter at the same time.  <i>If the optional duplexer is installed, the exhaust filter does not need replacement.</i>  See “How do I replace and recycle the toner cartridge?” on page 9.
<b>Media Pickup Roller—Multipurpose Tray</b>	Approximately 150,000	User replaces if media misfeeds in the multipurpose tray frequently, when the fuser is replaced, and after every 150,000 pages. “Multipurpose Tray Pickup Roller” on page 16
<b>Paper Separation Roller—Media Tray(s)</b>	Approximately 200,000	User replaces if media misfeeds in the media tray(s) frequently, when the fuser is replaced, and after every 200,000 pages. See “How do I replace the paper separation roller?” on page 14.
<b>Transfer Roller</b>	Approximately 150,000	See “How do I replace the transfer roller?” on page 20.

### 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 and other consumables for your printer are available from your local vendor or Q-SHOP ([www.q-shop.com](http://www.q-shop.com)).

### **Where can I get more information?**

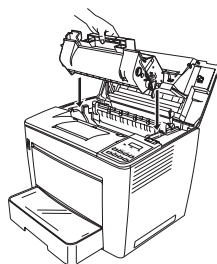
To access consumables usage information, use the Operator Control/Consumables/Print Statistics menu on the control panel, or use the CrownView printer web page. For further information about the consumables statistics page and replacement menus, refer to the *CrownBooks* in PDF on the *Documentation* CD-ROM. For information about ordering consumables, refer to [www.minolta-qms.com](http://www.minolta-qms.com) or [www.q-shop.com](http://www.q-shop.com).

If you need more assistance, more information can be found on the AnswerBase at [www.minolta-qms.com](http://www.minolta-qms.com) (click on On-Line Help & Drivers).

# Replacing the Toner Cartridge

Characters and images are created in your laser printer through a process that applies toner to the photosensitive OPC (Optical Photo Conductor) inside your toner cartridge. Your printer uses one toner cartridge. Handle the toner cartridge carefully to avoid spilling toner inside the printer or on yourself.

When the toner cartridge is worn out, the message **TONER EMPTY** appears. The printer will not print until the toner cartridge is replaced. After the toner cartridge is replaced, the printer automatically resets the consumables count.



## Attention

The OPC inside the toner cartridge is extremely sensitive to bright light, direct sunlight, and touch. Always leave the toner cartridge 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 OPC is damaged due to exposure to light, put the toner cartridge in a dark place to recover. Recovery may take up to two hours. Recovery time is dependent on the amount of exposure sustained, and recovery is not guaranteed.

## What is the toner cartridge life expectancy?

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	Starter Cartridge	Replacement Cartridge (Continuous Printing)	Replacement Cartridge (Intermittent Printing)
5%	6,000	15,000	12,000
10%	3,000	7,500	6,000
15%	2,000	5,000	4,000
20%	1,500	3,750	3,000

When a toner cartridge runs low, `TONER LOW` displays in the message window and there is approximately 5% toner remaining. Printing continues even though the warning appears. However, the image gradually fades, so replace the toner cartridge as soon as possible.

Approximately 750 pages after the printer displays `TONER LOW` in the message window, the printer displays `TONER EMPTY`, and the printer stops.

## How should I handle the toner cartridge?

Keep the toner cartridge

- Away from open flames.
- In its packaging until you're ready to install it.
- 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.

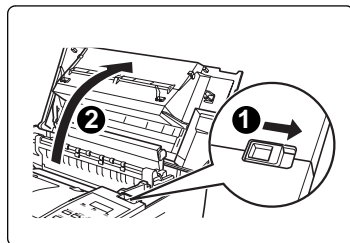
*Do not store cartridges on their ends or turn them upside down; the toner inside the cartridges may become caked or unequally distributed.*

- Away from salty air and corrosive gases such as aerosols.

## How do I replace and recycle the toner cartridge?

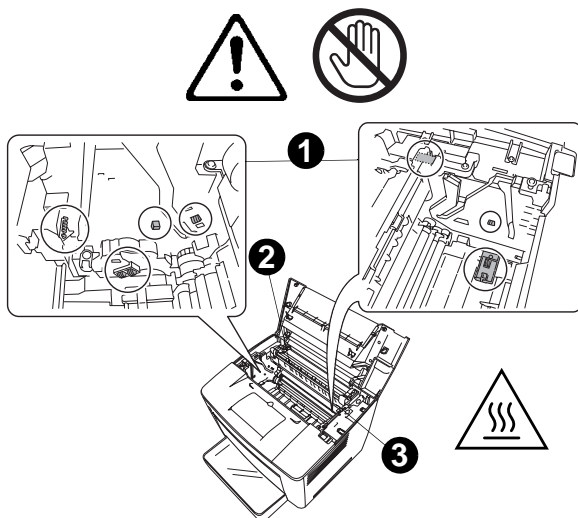
### Base Printer

- 1 Open the top cover ①, ②.



### Attention

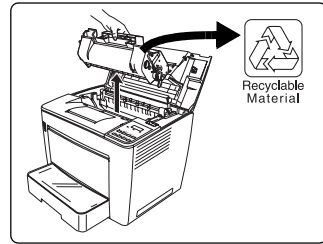
Never touch the copper or brass electrodes ① or electrical parts that are located inside the top cover and underneath the toner cartridge, as a printer malfunction can result.



Be careful not to touch ② around the image transfer roller (*touching certain parts in this area may result in reduced print quality*) or ③ around the fusing unit (*since the inside reaches temperatures of about 392 °F (200 °C), touching any part in this area may result in burns*).

- 2 Recycle the used toner cartridge.
- a Seal the empty MINOLTA-QMS toner cartridge in its original box.
  - b Affix the prepaid UPS label on the top of the box and return it via UPS.

If you did not receive a label with your cartridge or have misplaced the label, send an email to [toner\\_recycle@minolta-qms.com](mailto:toner_recycle@minolta-qms.com) for a replacement label.

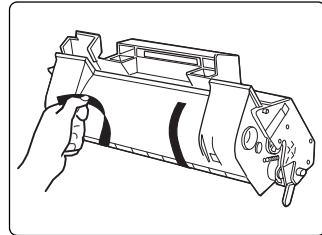


- 3 Remove the new toner cartridge from its box.



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

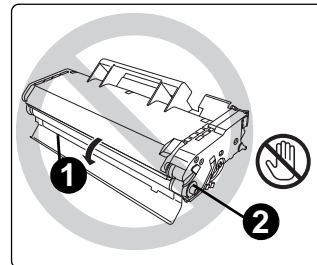
- 4 Peel off the packing tape.



### **! Attention**

**Do not open the protective cover① of the OPC (the green area) ② or hold the toner cartridge by the protective cover.**

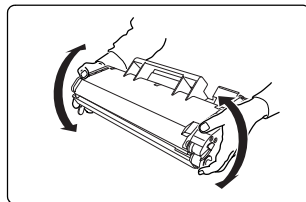
**The OPC is extremely sensitive to hand oils and scratches, both of which reduce print quality. This type of damage is not covered by your warranty.**





- 5 Slowly shake the toner cartridge, tilting it to the left and right 7 or 8 times to distribute the toner.

*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.*

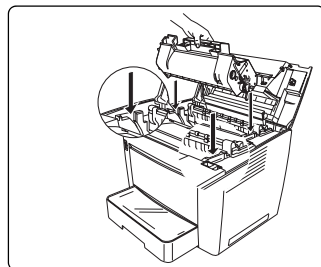


## WARNING!

**If you get toner in your eyes, wash it out immediately with cool water and consult a doctor. Material Safety Data Sheets (MSDS) can be found at [www.minolta-qms.com](http://www.minolta-qms.com) (click on Online Help & Drivers).**

**Sollte Toner in Ihre Augen gelangen, die Augen unbedingt sofort mit kaltem Wasser ausspülen und einen Arzt aufsuchen. MSDS (Material Safety Data Sheets; Datenblätter zur Materialicherheit) finden Sie im Internet unter [www.minolta-qms.com](http://www.minolta-qms.com) (klicken Sie auf "Online Help & Drivers").**

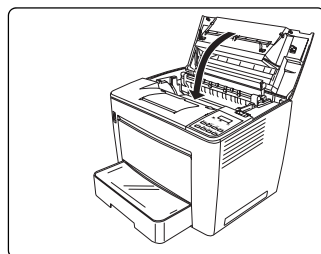
- 6 Align the tabs on the toner cartridge (one on each side) with the notches in the printer, and then insert the cartridge as far as possible into its compartment.



- 7 Close the top cover.

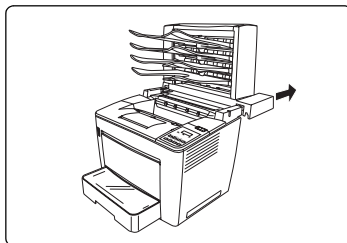
### Attention

**Do not transport the printer with the toner cartridge installed. If toner spills within the printer, decreased print quality may result, or the printer may be damaged.**

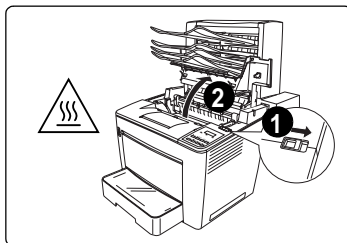


## Printer with 4-bin Mailbox Attached

- 1 Slide the 4-bin mailbox to the back of the printer.



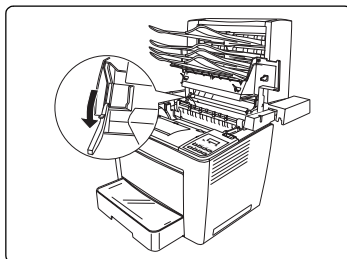
- 2 Open the top cover ①, ②.



- 3 Lower the stopper to support the top cover.

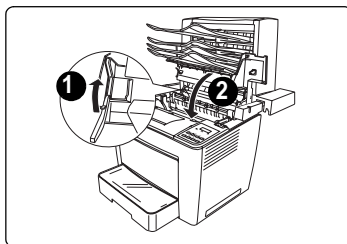
- 4 Replace the toner.

Refer to “How do I replace and recycle the toner cartridge?” on page 9.

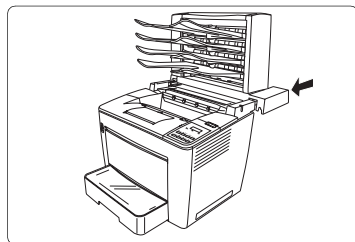


- 5 Return the stopper to its original position ①.

- 6 Close the top cover ②.



- 7 After closing the top cover, slide the 4-bin mailbox forward to its original position.



## Replacing the Exhaust Filter

If you haven't installed the optional duplexer, the exhaust filter on the back of the printer is replaced when you replace a toner cartridge.

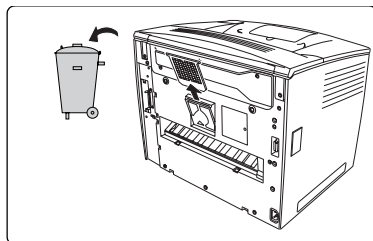
### How do I replace the exhaust filter?



- 1 Remove the used exhaust filter.



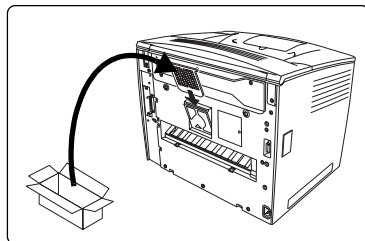
*Dispose of it according to your local regulations.*



### **Attention**

**If you will be installing the optional duplexer, it contains a built-in exhaust filter that does not need replacement.**

- 2 Remove the new filter from its box and insert it into place.



# Replacing Rollers

The pickup rollers feed media from the media trays into the printer. When the pickup rollers deteriorate, media may not feed correctly, resulting in media jams. Replace the pickup roller in the multipurpose tray each time you have the fuser replaced, and more frequently if the media is not being picked up properly.

The upper and optional media trays' media pickup roller needs periodic cleaning but not replacement.

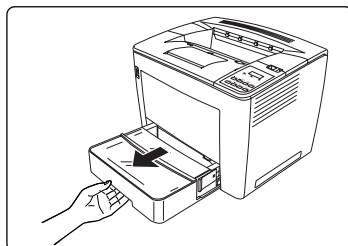
There are two different roller kits—one for the pickup rollers in the multipurpose tray, and one for the media trays' paper separation roller.

## How do I replace the paper separation roller?

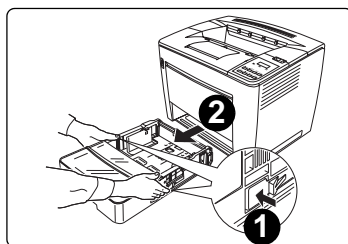
### Paper Separation Roller

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

*The illustration shows the upper media tray. Follow the same instructions for the optional media tray(s).*



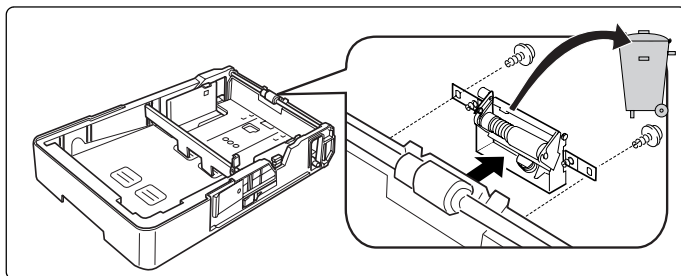
- 2 Remove the media tray.



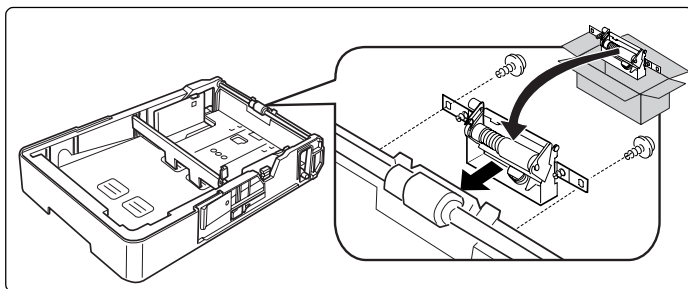
- 3 Loosen the two screws on the rear of the media tray.
- 4 Remove and dispose of the old paper separation roller.



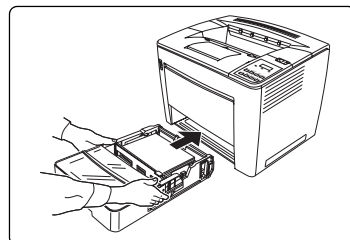
*Dispose of it according to local regulations.*



- 5 Remove the new paper separation roller assembly from its packaging.
- 6 Install the new paper separation roller.

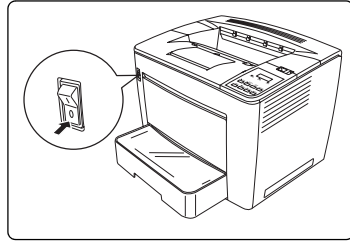


- 7 Tighten the two screws.
- 8 Reinsert the media tray into the printer.
- 9 If you have optional media tray(s) installed, repeat steps 3–8 for each one.



## Multipurpose Tray Pickup Roller

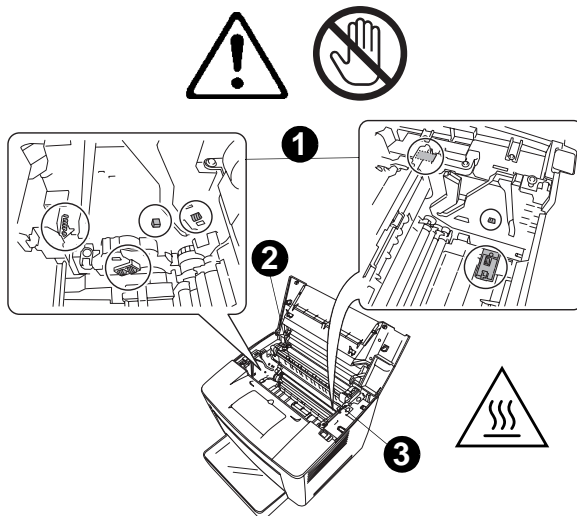
- 1 Turn off the printer.



- 2 Open the top cover.

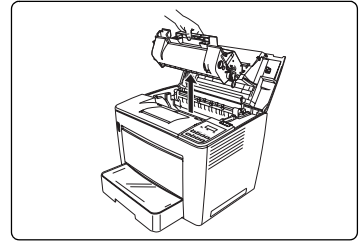
### Attention

Never touch the copper or brass electrodes ① or electrical parts that are located inside the top cover and underneath the toner cartridge, as a printer malfunction can result.

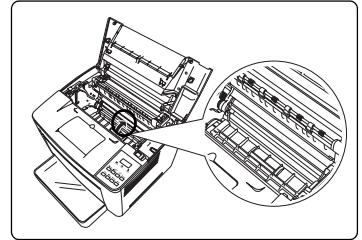


Be careful not to touch ② around the image transfer roller (*touching certain parts in this area may result in reduced print quality*) or ③ around the fusing unit (*since the inside reaches temperatures of about 392 °F (200 °C), touching any part in this area may result in burns*).

- 3 Remove the toner cartridge and store it in a light-free protective bag.



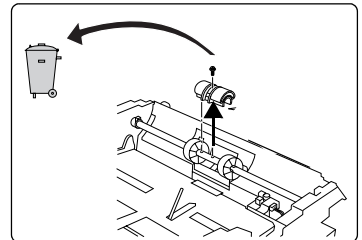
- 4 Open the media feed roller cover.



- 5 Unscrew the screw in the center of the multipurpose tray pickup roller and dispose of the pickup roller.



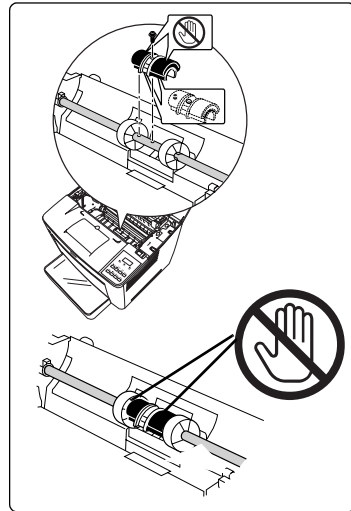
*Dispose of it according to your local regulations.*



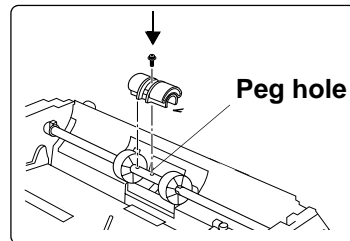
- 6 Remove the new pickup roller from its packaging.

**⚠ Attention**

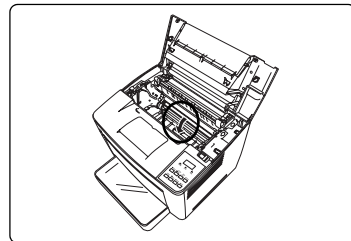
**Do not touch the two black parts of the roller.**



- 7 Align the peg on the bottom of the pickup roller in its hole, and replace the pickup roller.
- 8 Tighten the screw.

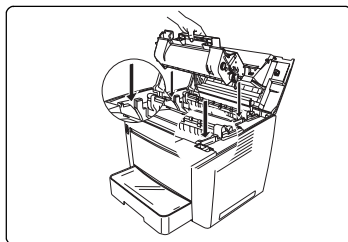


- 9 Close the media feed roller cover.

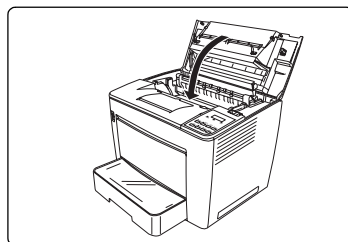




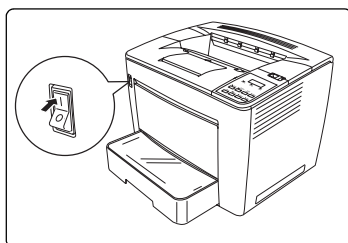
- 10** Align the tabs on the toner cartridge (one on each side) with the notches in the printer, and then insert the cartridge as far as possible into its compartment.



- 11** Close the top cover.

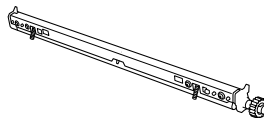


- 12** Turn on the printer.



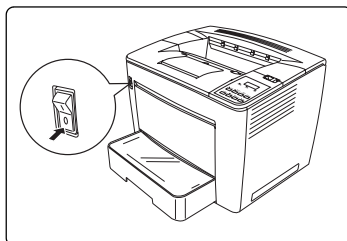
# Replacing the Transfer Roller

The transfer roller interfaces with the roller in the toner cartridge.

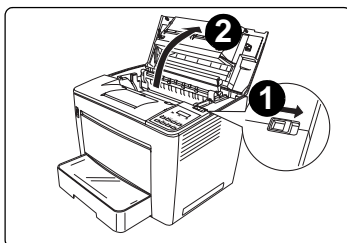


## How do I replace the transfer roller?

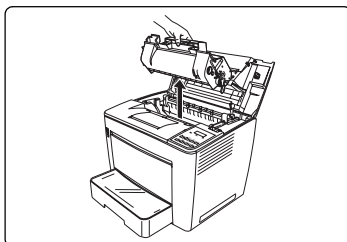
- 1 Turn off the printer.



- 2 Slide the top cover release lever to the right ①, and open the top cover ②.



- 3 Remove the toner cartridge and store it in a light-free protective bag.



- 4 Place your fingers underneath the green tabs and rotate the roller upward away from you ①.

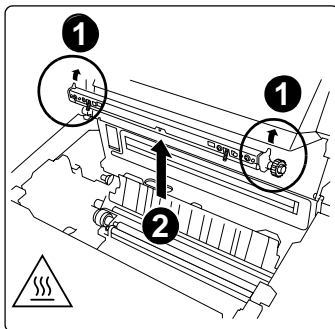
*The metal surface will move upward.*

- 5 Remove the used transfer roller ②.



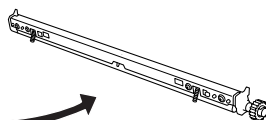
*Dispose of it according to your local regulations.*

- 6 Remove the new transfer roller from its packaging.



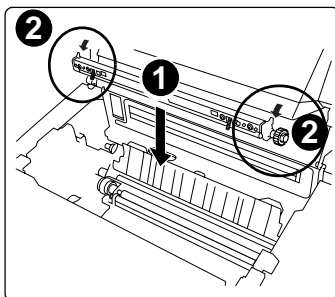
### **⚠ Attention**

**Do not touch the transfer roller's black surface.**

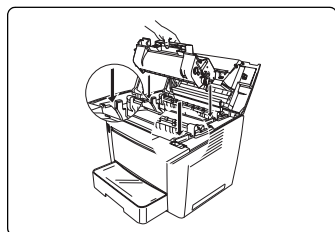


- 7 Lower the new transfer roller straight in ①, making sure the shaft is well seated.

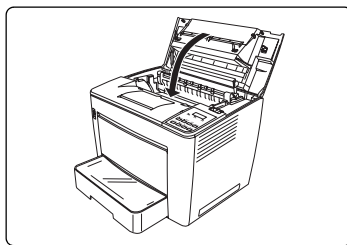
- 8 Rotate the green tabs downward ② so that the metal surface faces you.



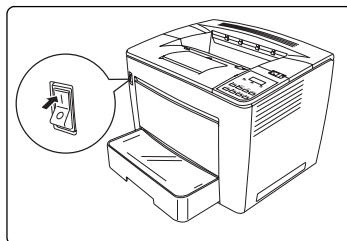
- 9 Align the tabs on the toner cartridge (one on each side) with the notches in the printer, and then insert the cartridge as far as possible into its compartment.



**10** Close the top cover.



**11** Turn on the printer.



---

***Using Media***

**2**

# Introduction

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

<b>Getting Started</b>	
“How do I take <b>care</b> of media?”	page 24
“What should I watch out for when <b>handling media</b> ?”	page 27
“What <b>type and amount of media</b> can I load?”	page 29
“What <b>sizes/weights</b> of media can I use?”	page 30
“What Is the <b>guaranteed</b> imageable (printable) area?”	page 31
<b>Job Modes and Media Types</b>	
“Why have two different job modes?”	page 33
“How do I select the <b>job mode</b> ?”	page 34
<b>Media Types</b>	
“How do I <b>select the media type</b> ?”	page 34
<b>Other Information</b>	
“How do I <b>prepare the media</b> ?”	page 35
“How do I <b>manually duplex</b> ?”	page 45
“How do I <b>autoduplex</b> ?”	page 45
“Where can I <b>order</b> MINOLTA-QMS-approved media or get more <b>information</b> ?”	page 46

## Attention

Using unsupported media such as inkjet paper or coated color transparencies will result in damaging the printer and in 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 moist or wet paper*

*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 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

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**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, colored paper that has been treated)
- Carbon backed
- Iron-on transfer media (heat-sensitive paper, heat-pressure paper, heat-press transfer paper)
- Cold water transfer paper
- Pressure sensitive
- Special media designed specifically for **inkjet printers** (superfine paper, glossy paper, glossy film, postcards, etc.)
- 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, curled, embossed, warped, or wrinkled
- Perforated, three-hole punched, 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
- Heat sensitive or cannot withstand the fusing temperature (392° F/200° C)
- Irregularly shaped (not rectangular or not cut at right angles)
- 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 paper

### **What should I watch out for when loading custom 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.

Select plain paper mode in Administration/Media/Plain Paper menu. Set the printer for custom-sized media in the Operator Control/Multipurpose Sz/Custom menu.

#### **Do not use custom media that does not fit the approved dimensions**

- **Width:** 3.4 inches (86 mm) up to 11.7 inches (297 mm)
- **Length:** 5.5 inches (139.7 mm) up to 17.0 inches (432 mm)

### **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?

A label consists of a face sheet (the printing surface), adhesive, and a carrier sheet:

- 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.

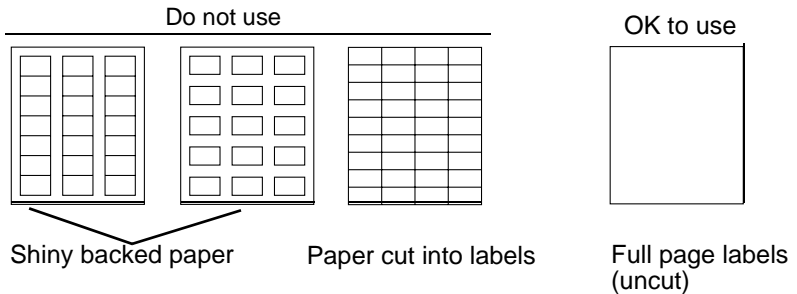
Format label data within your application. Try printing your data on a plain sheet of paper first to check placement. Check your application documentation for other information on printing labels.

### 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 or bent
- 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 thick stock?**

Test all thick stock to ensure acceptable performance and to ensure that the image does not shift.

#### **Do not use thick stock that is**

- Mixed with any other media in the media trays (as this will cause printer jamming)

### **What should I watch out for when loading transparencies?**



#### **Attention**

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**Using unsupported transparency media such as coated color transparencies will result in damaging the printer and in voiding your warranty.**

---

Remove transparency media as soon as possible from the output tray to avoid static buildup.

If you touch the face of transparencies with your bare hands, print quality may be affected. Do not handle transparency media too much.

Do not fan large quantities of transparency media before loading it.

You can print continuously with transparencies. However, this could affect the media feed, depending on the media quality, static buildup, and printing environment. For the multipurpose tray, if you have problems loading a large number of transparencies at a time, try loading only 1–10 sheets.



#### **Attention**

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**Use only the MINOLTA-QMS-approved transparencies. Check [www.minolta-qms.com](http://www.minolta-qms.com) for currently approved media. To order approved media, go to [www.q-shop.com](http://www.q-shop.com).**

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#### **Do not use transparencies that**

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

#### **Use transparencies that are**

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

## What type and amount of media can I load?



Use only media approved for laser products. Check [www.minolta-qms.com/support](http://www.minolta-qms.com/support) (click on Answer Base) for currently approved media. To order approved media, go to [www.q-shop.com](http://www.q-shop.com).

Media Source/Maximum Amount Based on 16–20 lb bond (75 g/m <sup>2</sup> )*		Input Capacity		
		Upper Media Tray**	Multi- purpose (MPT) Tray	Optional Media Trays** (Optional1, 2, or 3)
Media Type				
Plain Paper	16–24 lbs (60–90 g/m <sup>2</sup> )	500 FU (A5 media: 350 FU)	200 FD	500 FU
Special Media	Custom Media	Not supported	50 FD	Not supported
	Envelopes		100 FU	
	Label Stock (letter or A4 only)		50 FU	
	Postcards (Japanese Size)		100 FU	
	Thick Stock 24–90 lbs (91–163 g/m <sup>2</sup> )		50 FU	
	Transparencies (letter or A4 only)		100 FU	
Notes	* Capacity for other weights and thicknesses varies accordingly ** You may rename these trays for your convenience. See the <i>Crown Books</i> (in PDF on the <i>Documentation</i> CD-ROM) for more information. FU = Face Up; FD = Face Down			

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.**

# What sizes/weights of media can I use?

Media	Media Size		Weights	Feed Direc-tion	Input Source*	Output Source	Auto-duplex
	Inches	Millimeters					
8 Kai	10.2x14.6	260.0x370.0	16–24**	SEF	M	Top	No
16 Kai	7.3x10.2	185.0x260.0		LEF	M	Top	No
32 Kai	5.1x7.3	130.0x185.0		LEF	M	Top	No
A3	11.7x16.5	297.0x420.0		SEF	UO/M	Top/Mbox	Yes
A4 Label	8.2x11.7	210.0x297.0	N/A	LEF	M	Top	No
A4 Plain Paper	8.2x11.7	210.0x297.0	16–24	LEF	UO/M	Top/Mbox	Yes
A4 Transparency	8.2x11.7	210.0x297.0	N/A	LEF	M	Top	No
A5	5.9x8.3	148.0x210.0	16–24	LEF	M	Top	Yes
B4	10.1x14.3	257.0x364.0		SEF	UO/M	Top/Mbox	Yes
B5 (ISO)	6.6x9.8	176.0x250.0		LEF	M	Top	Yes
B5 (JIS)	7.2x10.1	182.0x257.0		LEF	UO/M	Top/Mbox	Yes
C5	6.4x9.0	162.0x229.0		SEF	M	Top	No
C6	4.5x6.4	114.0x162.0		SEF	M	Top	No
Commercial #10 Envelope	4.1x6.4	105.0x241.3	N/A	SEF	M	Top	No
Custom Sizes, Minimum	3.4x5.5	86.0x140.0	16–24	Varies	M	Top	No
Custom Sizes, Maximum	11.7x17.0	297.0x 432.0					
International DL Envelope	4.3x8.7	110.0x220.0	N/A	SEF	M	Top	No
Executive	7.3x10.5	184.0x267.0	16–24	LEF	M	Top/Mbox	Yes
Folio (Govt. Legal)	8.5x13.0	216.0x330.0		SEF	M	Top/Mbox	Yes
Government Letter	8.0x10.5	203.2x267.0		LEF	UO/M	Top/Mbox	Yes
Japanese Postcard	3.9x5.8	100.0x148.0	N/A	SEF	M	Top	No
Ledger	11.0x17.0	279.4x432.0	16–24	SEF	UO/M	Top/Mbox	Yes
Legal	8.5x14.0	215.9x355.6		SEF	UO/M	Top/Mbox	Yes
Letter Label	8.5x11.0	215.9x279.4	N/A	LEF	M	Top	No
Letter Plain Paper	8.5x11.0	215.9x279.4	16–24	LEF	UO/M	Top/Mbox	Yes
Letter Transparency	8.5x11.0	215.9x279.4	N/A	LEF	M	Top	No
Monarch	3.9x7.5	98.0 x 191.0	16–24	SEF	M	Top	No
Statement	5.5x8.5	140.0x216.0		LEF	M	Top	Yes
Thick stock			25–90	Varies	M	Top	No
<b>Notes:</b> LEF = Long-edge feed; SEF = Short-edge feed *UO = Upper or optional media tray(s); M = Multipurpose tray; Mbox = 4-bin Mailbox **16–24 = 16–24* lb bond (60–90g/m²); 25–90 = 25–90 lbs (91–163 g/m²); N/A = Not applicable; use only approved media Autoduplex up to 24 lb bond (90 g/m²); do not autoduplex thick stock 25–90 lb (91–163 g/m²).							

## What Is the guaranteed imageable (printable) area?

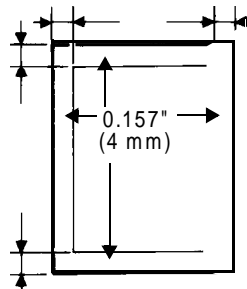
Each media size has a specific imageable area, the maximum area on which the printer can print clearly and without distortion.

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 guaranteed imageable (printable) area for all media sizes is the page size minus 0.157" (4 mm) from all edges of the media.

### Edge-to-Edge Printing

Edge-to-edge printing removes the standard 0.157" (4 mm) margin from all media sizes. Edge-to-edge printing requires driver support, but not all drivers support edge-to-edge printing.

- 1 Enable edge-to-edge printing through the printer's control panel (Administration/Engine/Edge-to-Edge menu).
- 2 From the PagePro 9100 Windows printer driver, select PostScript custom page size and set it to match the actual media size. From the PagePro 9100 Macintosh printer driver, select custom page size and set it to match the actual media size.
- 3 Set your margins to 0 from the appropriate application. Certain applications will not support edge-to-edge printing.



Printing outside the 0.157" (4 mm) margin is nonguaranteed. The nonguaranteed area is the area on which you can print, but image quality in these areas might be compromised.



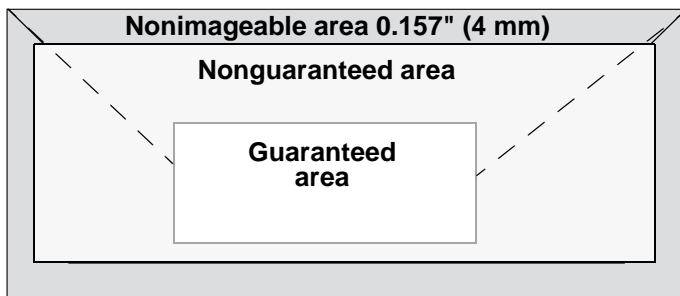
*For further information, refer to the readmes on the Documentation CD-ROM.*

### Envelopes

Envelopes have a nonguaranteed flap area that varies with envelope type.



*Envelope print orientation is determined by your application.*



## 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 in your application, 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 or the Administration/Engine/Edge-to-Edge 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 500 sheets of 20 lb (75 g/m<sup>2</sup>) bond paper. If the media stacks too high, your printer may experience media jams, excessive media curl, or static buildup. Remove transparency media as soon as it's printed.

## Attention

Use only MINOLTA-QMS-approved media.

Check [www.minolta-qms.com](http://www.minolta-qms.com) for currently approved media. To order approved transparency media, go to [www.q-shop.com](http://www.q-shop.com).

- Try printing your data on a plain sheet of paper first to check placement.
- Media is fed either on the short or long edge, depending on the size of the media. See “What sizes/weights of media can I use?” on page 30.
- Test any stock (and the number of sheets of thick stock a media tray can hold) thicker than 24 lb bond (90 g/m<sup>2</sup>) to ensure that its performance is acceptable.
- Select **Network Mode** or **Single User Mode** (job modes) to specify how media type requests are handled.
- 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 *Documentation* 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 the **media type**.

## Why have two different job modes?

**Network mode** is designed for printing on the network, so that print jobs are not held up by requested media changes. If the requested media type from the driver matches the media type set for the inputbin, the job will print on the requested media type. If the printer does not sense a requested media type (such as transparency) in the inputbin selected in the driver, it will continue and print the job on plain paper.

**Single user mode** is designed to allow a printer to stop and request a specific media type (such as transparency or thick stock) when requested by the driver, regardless of the current media type in the inputbin. This allows more flexibility in the individual print job, but it can bottleneck the printing process if the printer is waiting for a media change and you do not physically go to the printer and make the change. Since MINOLTA-QMS printers use a First-In First-Out order in job processing, all print jobs will be paused, waiting for the media change.

## Which job mode is best?

The specific mode that is best depends upon your particular network environment. If getting your jobs printed in a timely manner is most important, use network mode. If getting your jobs printed on the requested media is most important, use single user mode.

## How do I select the job mode?

In network mode, you must select a specific media type from the printer driver and Network Mode from the printer's control panel (Operator Control/Media Mode/Network Mode). In single user mode, you only have to specify the type of media that you are printing on in the driver.

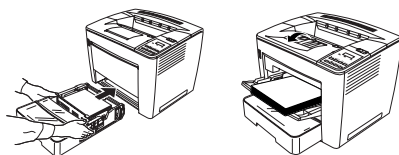
## How do I select the media type?

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



# Loading Media

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



## How do I prepare the media?

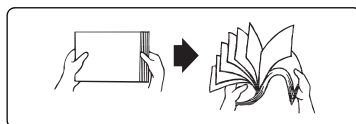


*Don't unwrap paper above the printer, as this might cause paper particles to fall into the printer.*

- 1 Take off the top and bottom sheets of a ream of paper.
- 2 Fan a stack of approximately 500 sheets of paper to prevent static buildup.

*Don't fan large quantities of transparency media.*

*A fill limit mark is provided on the inside right side of the tray. The upper and optional media tray(s) hold approximately 500 sheets of 20 lb bond (75 g/m<sup>2</sup>) paper.*

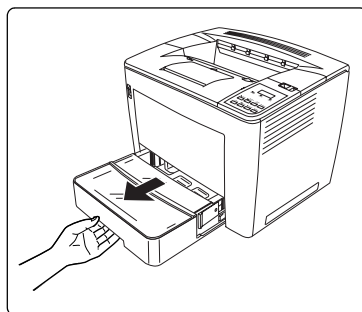


## How do I refill a media tray?

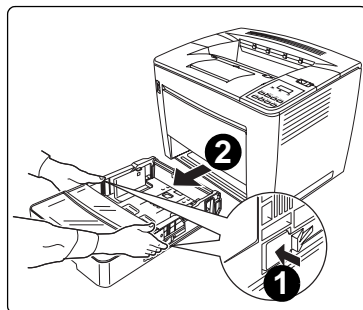
- 1 Pull out the media tray until it stops.



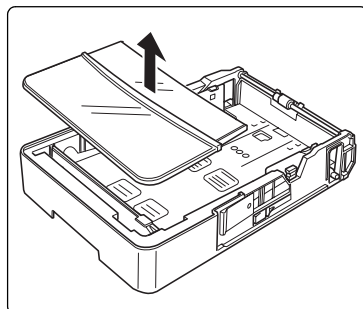
*The illustration only shows the upper media tray. The following instructions are also valid for the optional media trays.*



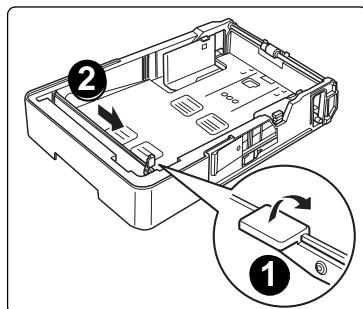
- 2 While pressing in the release buttons (one on each side) ①, remove the tray ②.



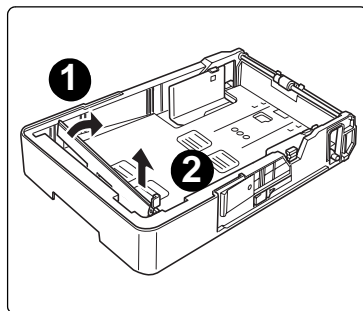
- 3 Remove the media tray cover.



- 4 Lift up the gray lever on the right end of the paper retainer ①, and then slide the paper retainer to the right ②.

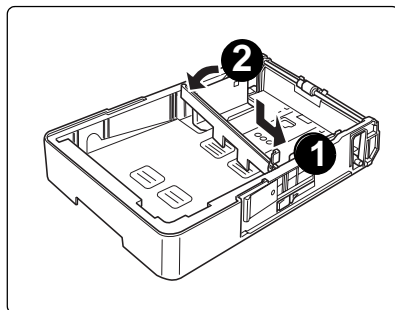


- 5 Lift up on the left end of the paper retainer ① to remove it ②.



- 6 Insert the right end of the paper retainer ① into the slot for the size of paper to be loaded ②.

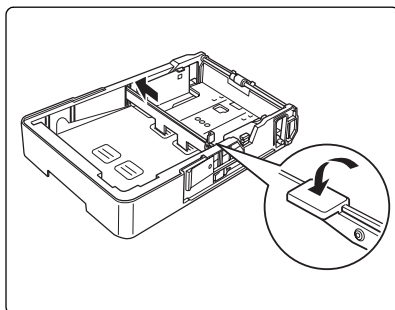
*The paper size is detected depending on the position of the paper retainer. Correctly position the paper retainer according to the size of paper to be loaded.*



- 7 Slide the paper retainer to the left ①, and then press down on the gray lever ② to secure the paper retainer.

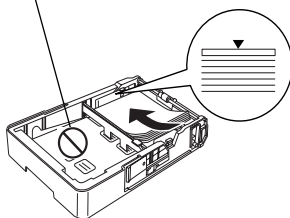
**Attention**

**Make sure the paper retainer is seated properly.**



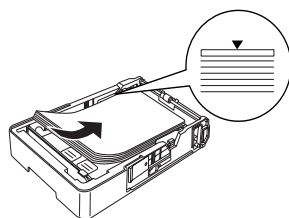
- 8 Align the four edges of the paper, and then load the paper printing side up.

**Do not load media on this side.**



**Long-edge Feed Examples**

A4, B5, Government Letter, and Letter



**Short-edge Feed Examples**

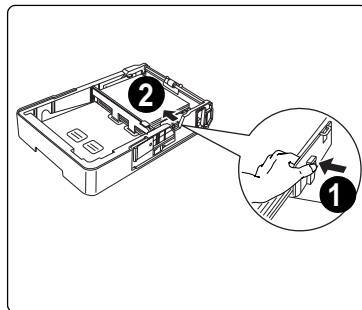
A3, B4, and Ledger

*A maximum of 500 sheets (20 lb bond [75 g/m<sup>2</sup>] plain paper) can be loaded. If media is loaded past the triangular mark, it may not be fed correctly.*

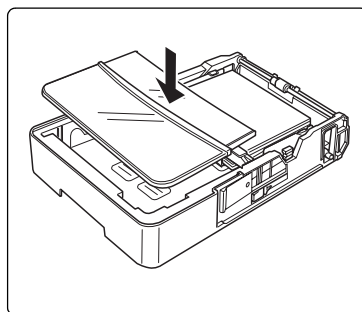
- 9 Press in the button on the paper guide ①, and then slide the guide against the edge of the paper ②.

**⚠ Attention**

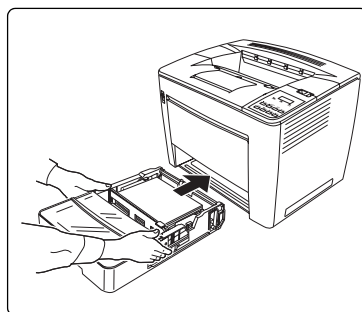
**The media should fit easily between the guides. Improperly adjusted guides may cause poor print quality, media jams, or printer damage.**



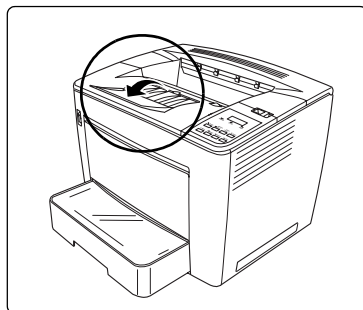
- 10 Install the media tray cover.



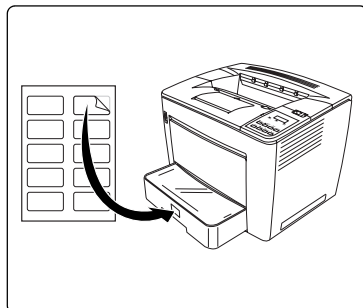
- 11 Install the media tray, inserting it as far as possible into the printer.



- 12 When printing on media B4 or larger, fold open the output tray extension.



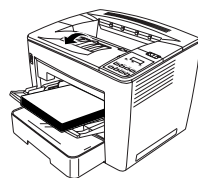
- 13 Affix the media size labels (supplied with the printer) to the media tray(s) in order to indicate the size of the loaded paper.



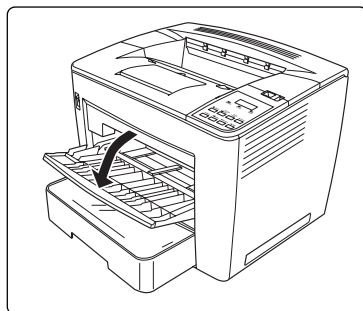
## How do I refill a multipurpose media tray?

For information about approved media, refer to page 29.

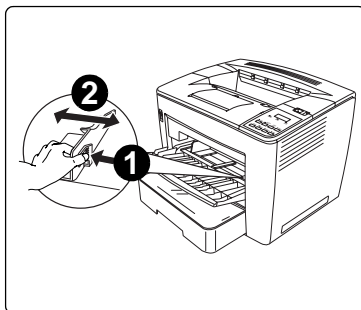
The multipurpose tray is used for all media types, especially envelopes, labels, Japanese-sized postcards, and thick stock.



- 1 Open the multipurpose tray.

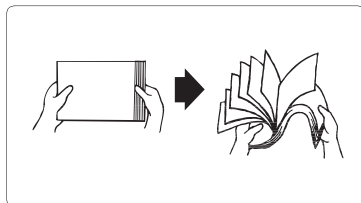


- 2 While pressing in the button ① on the media guide at the right, slide the media guide ② to adjust it to the appropriate size.



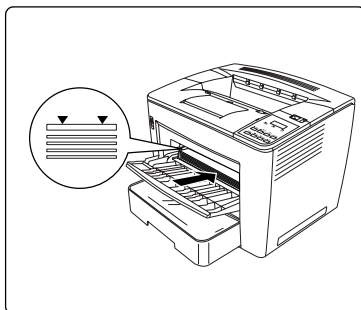
- 3 Fan a stack of media.

*A fill limit mark is provided on the inside of the tray. A maximum of 200 sheets (75 g/m<sup>2</sup> plain paper) can be loaded. If media is loaded past the triangular mark, it may not be fed correctly.*



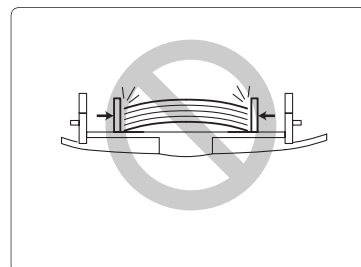
- 4 Align the four edges of the media, and then lightly slide the media as much as possible into the feed slot (printing-side up).

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



### **Attention**

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



## Using Media Other Than Plain Paper

### Attention

For information about media recommended for your printer, go to [www.minolta-qms.com/support](http://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.

Set the single user job mode versus network job mode shown on page 34 before you load media.

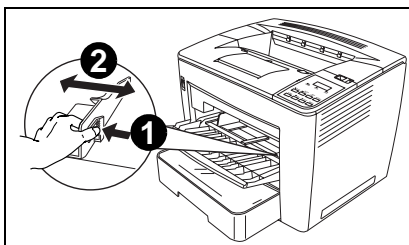
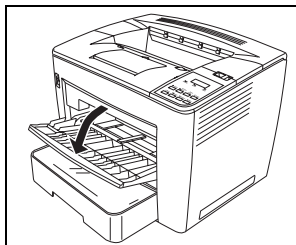
## How do I load and print envelopes?



*Envelope printing is supported only from the multipurpose tray.*

- 1 In the printer driver (Paper tab, Media Type option), select Envelope.
- 2 If you are in Network Mode, on the control panel, select Operator Control/ MPT Media, and select Thick Stock.
- 3 Select the size of envelope, either
  - a Press the MP Size Select  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 Sz, 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 tap the envelopes on a flat surface to align them.

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



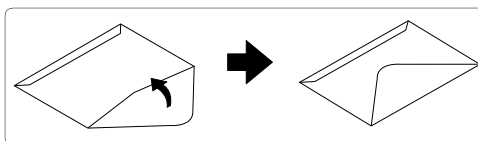
### **Attention**

**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 up.



*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 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 If you are in Network Mode, on the control panel, select Operator Control/ MPT Media, and select Thick Stock.
- 3 Select the size of label.
  - a Press the MP Size Select  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 Sz. Scroll to the required label size and select it.
- 4 Load the label media face up 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 If you are in Network Mode, on the control panel, select Operator Control/ MPT Media, and select Thick Stock.
- 3 Select postcard.
  - a Press the MP Size Select  key and scroll to Postcard and select it, or
  - b On the control panel, press the Menu  key and select Operator Control/Multipurpose Sz. Scroll to Postcard and select it.
- 4 Place the postcards on a flat surface, and flatten them by pressing down the corners.
- 5 Remove any media in the media tray.
- 6 Load the postcard media printing-side up in the multipurpose tray.
- 7 Adjust the media guides to the width of the postcards.
- 8 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.**

- 1 In the printer driver (Paper tab, Media Type option), select Thick.
- 2 If you are in Network Mode, on the control panel, select Operator Control/ MPT Media, and select Thick Stock.
- 3 Load the new media.
- 4 Adjust the media guides.
- 5 Print the thick stock.

## How do I load and print transparencies?

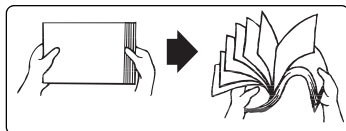
### **Attention**

**Use only transparency media approved for this printer. Check [www.minolta-qms.com](http://www.minolta-qms.com) for currently approved media. To order approved media, go to [www.q-shop.com](http://www.q-shop.com).**

- 1 In the printer driver (Paper tab, Media Type option), select Transparency and select either Letter or A4.
- 2 If you are in Network Mode, on the control panel, select Operator Control/ MPT Media, and select Transparency.
- 3 Press the MP Size Select MP Size Select key and scroll to the required transparency size and select it.
- 4 Fan a few transparencies.



*Fanning a large number will build up static electricity.*



- 5 Put media face-up in the multi-purpose 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.**

- 6 Print the transparencies.
- 7 Immediately remove the printed transparencies from the output tray.

# 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. Check your application for margin information. For best results, print a small quantity to make sure the opacity is acceptable.

## 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?



*Only plain paper 16–24 lb bond (60–90 g/m<sup>2</sup>) can be autoduplexed. Autoduplexing envelopes, labels, postcards, thick stock over 24 lb (90 g/m<sup>2</sup>), or transparencies is not supported.*

You should verify that the duplexer is physically installed on the printer to have the job duplex successfully. Otherwise, the print job will print as simplex even if you selected duplex.

Your printer is configured with 64 MB of RAM. Duplex (2-sided) printing can be done automatically with a duplexer and enough memory installed. For example, a 1200 dpi duplex ledger-size page would require 96 MB of SDRAM. Additional memory can be added up to 512 MB. Very high coverage (for example high content and graphics) pages may revert to 600 dpi when duplex printing if enough memory is not installed.

Print Type Media Size	Simplex		Duplex	
	600 dpi	1200 dpi	600 dpi	1200 dpi
A3	64 MB	96 MB	64 MB	96 MB
A4		64 MB		
Ledger		96 MB		
Legal		64 MB		
Letter		64 MB		

- 1 Check your application to determine how to set your margins for duplex printing.
- 2 To print duplex (both sides of the sheet), load the media with the top of the media toward the back of the tray, printing-side up.  
*In autoduplexing, the back side is printed first and the front side is printed last.*
- 3 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.
- 4 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](http://www.minolta-qms.com/support) (click on Answer Base) for currently approved media. To order approved media, go to [www.q-shop.com](http://www.q-shop.com).

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

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# ***Maintaining the Printer***

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# 3

# Introduction

"How do I <b>handle</b> the printer?"	page 48
" <b>When</b> does the printer need cleaning?"	page 49
"What cleaning <b>materials</b> should I use?"	page 49
"How do I clean the <b>media tray pickup rollers</b> ?"	page 50
"How do I clean the <b>multipurpose tray pickup rollers</b> ?"	page 51

## How do I handle the printer?

- **Do not open any cover of the printer during printing.**
- 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.
- Do not tilt the printer more than  $\pm 1\%$  in any direction.



*For best output quality and longest consumables life, keep the printer on a hard, flat, level surface. A surface can be tested for levelness with a standard round pencil. If the pencil rolls, the surface is not level.*

- 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.
- Do not place anything on the top of the printer.
- Always close the printer covers gently.
- Do not leave the printer's cover open for any length of time, especially in well-lit places; light may damage the toner cartridge.
- Be careful when cleaning the inside or removing paper jams, as the fuser and other internal parts may become very hot.



### Attention

**The fuser unit is hot. The fuser temperature drops gradually (one hour wait time).**



- Do not cover the printer immediately after using it.

# Cleaning

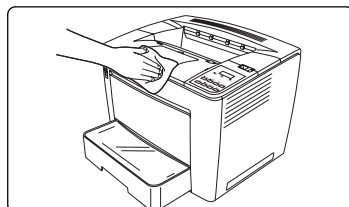
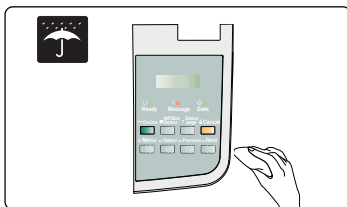
## When does the printer need cleaning?

Clean this item thoroughly...	After...
Exterior	Once a month or as needed, whichever comes first.
Interior (media feed rollers)	Media stops being fed from the media tray(s).
<b>Note:</b> We recommend that you do not clean elsewhere inside the printer. If necessary, refer to the <i>Service &amp; Support Guide</i> for a MINOLTA-QMS-authorized service provider near you.	

## What cleaning materials should I use?

Exterior—Use	Exterior—Avoid
A soft <b>dry</b> cloth to clean the control panel.	Sharp or rough implements (such as wire or plastic cleaning pads or brushes); liquids.
A soft, wrung-out <b>damp</b> cloth to clean the outside of the printer.	Aerosol or pump-sprayed cleaners; too much dampness in the cloth.
Mild neutral detergent to clean the outside of the printer, if necessary.	Abrasive or corrosive solutions that contain solvents (such as alcohol, benzene, or thinners).
Interior Media Feed Rollers—Use	Interior—Avoid
A soft <b>dry</b> clean cloth.	Sharp or rough implements (such as wire or plastic cleaning pads or brushes); any liquids.

## Cleaning the Printer Exterior



### Attention

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.

## Cleaning the Printer Interior

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

### 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.**

### WARNING!

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

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

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.

## Media Tray Pickup Rollers

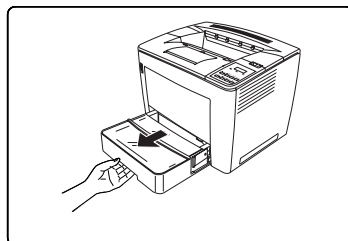
The printer's pickup rollers contain a sensor to detect the density of media passing by.

### How do I clean the media tray pickup rollers?

When the sensor gets dirty or dusty, print quality will degrade.

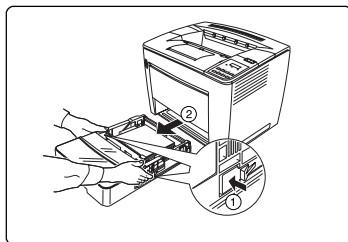
- 1 Pull the media tray out of the printer until it stops.

*The illustration shows the upper media tray. Follow the same instructions for the optional media tray(s).*

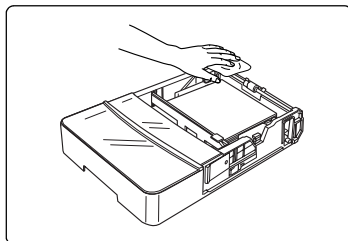




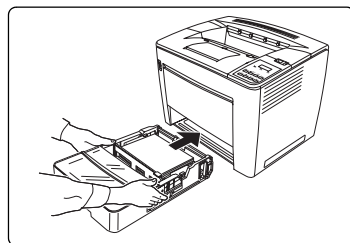
**2** Remove the media tray.



**3** Wipe the pickup roller with a soft dry cloth.

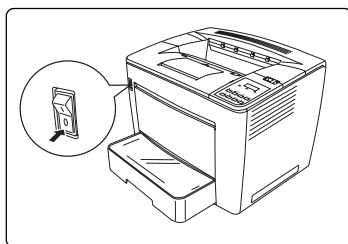


**4** Reinsert the media tray into the printer.

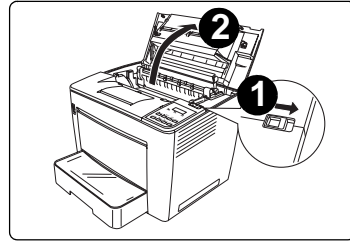


### How do I clean the multipurpose tray pickup rollers?

**1** Turn off the printer.

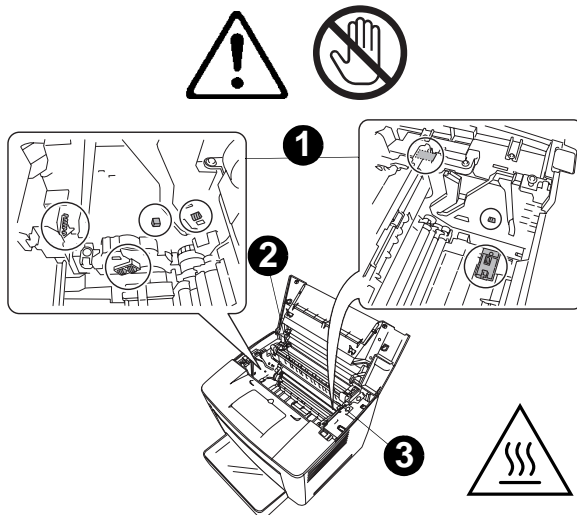


- 2 Open the top cover.



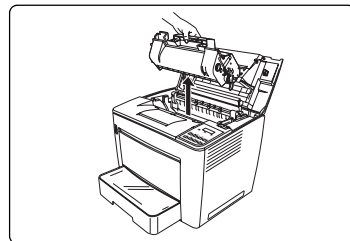
### Attention

Never touch the copper or brass electrodes ① or electrical parts that are located inside the top cover and underneath the toner cartridge, as a printer malfunction can result.

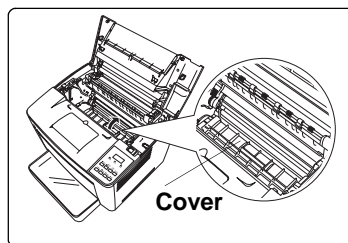


Be careful not to touch ② around the image transfer roller (*touching certain parts in this area may result in reduced print quality*) or ③ around the fusing unit (*since the inside reaches temperatures of about 392 °F (200 °C), touching any part in this area may result in burns*).

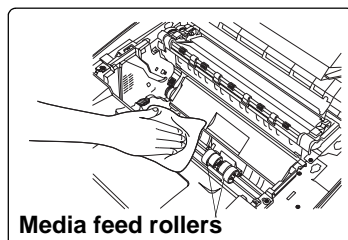
- 3 Remove the toner cartridge and store it in a light-protected bag.



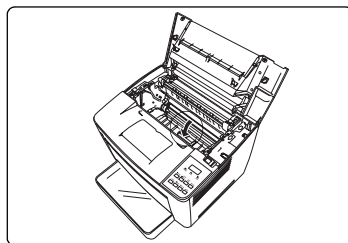
- 4 Open the media feed roller cover.



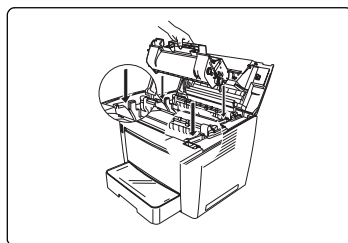
- 5 Wipe the two media feed rollers with a soft, dry cloth.



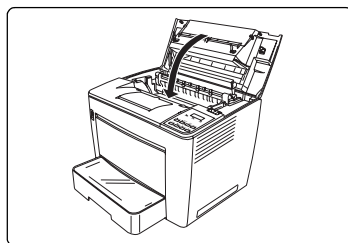
- 6 Close the media feed roller cover.



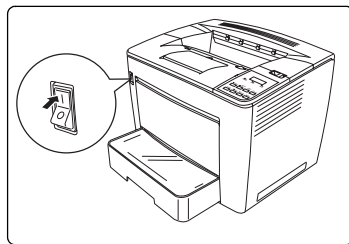
- 7 Align the tabs on the cartridge (one on each side) with the notches in the printer, and then insert the cartridge as far as possible into its compartment.



- 8 Close the top cover.



## 9 Turn on the printer.



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# ***Troubleshooting***

# **4**

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# Introduction

“Printing a <b>Status Page</b> ”	Page 57
“ <b>PDF</b> File Printing”	Page 58
“ <b>Preventing</b> Media <b>Jams</b> ”	Page 59
“Automatic <b>Jam Recovery</b> ”	Page 60
“Understanding the <b>Media Path</b> ”	Page 60
“Understanding Media <b>Jam Status Messages</b> ”	Page 62
“ <b>Clearing</b> Media Input <b>Jams</b> ”	Page 62
“ <b>Solving</b> Problems”	Page 75
“Status, Error, and Service <b>Messages</b> ”	Page 87
“Additional <b>Assistance</b> ”	Page 95

# Printing a Status Page

There are two kinds of status pages:

- **Standard:** A one-page overview of the most common printer settings used to confirm that your printer is printing.
- **Advanced:** Information about printer parameter settings, fonts, and emulations available. The document may have many pages, depending on the fonts installed. Print an advanced status page in case you need to restore any current memory settings, for example, after a DIMM installation.

Select the type of status page through the Administration/Special Pages/Status Page Type menu on the control panel.

After you have chosen the type you want, press the **Status ? Page** button on the control panel to verify the printer is printing correctly. You can also print a status page through the Administration/Special Pages/Print Status menu.

MINOLTA GMS		PagePro 9100	Status Page
Printer Name :			
<b>Printer Identification</b>		<b>Printer Settings</b>	
System Release: 1.0.0		Compatibility Level: Level 3	
Version: 3010.041, Revision 27		Do Start-up Page: Yes	
Process ID: 2631		Do Error Handler: No	
Pages Printed: 686		Do SysStart: Yes	
Sheets Printed: 431		Is Password ON: Yes	
A3/11x17 Pages Printed: 0		Long Edge Duplex: No	
A3/11x17 Sheets Printed: 0		Short Edge Duplex: No	
		Default Challenge: Yes	
		Default Paper Tray: Standard	
		Default Output Tray: Standard	
		Number of Paper Trays: 3	
		Page Stack Order: Face Down	
		Left Margin: 120	
		Top Margin: 100	
		Resolution: 600	
<b>Current Memory Configuration</b>		<b>Timeouts</b>	
Location: Size		Wait: 120 sec.	
Host Input: 512 KB		Job: 0 sec.	
Display List: 6516 KB		Emulation: 5 sec.	
Font Cache: 256 KB		ESP: 3 sec.	
Heap: 3072 KB			
FrameBuffer: 34032 KB			
Emulation: 64 KB			
HP Storage Pool: 2048 KB			
Emulation Temporary: 2560 KB			
Disk Cache: 28 KB			
System Use: 812 KB			
Total Memory: 65536 KB			
PostScript® Emulation VM: 180000			
VM allocated: 130000			
VM remaining: 170000			
<b>Communications Settings &amp; Input Buffer Sizes</b>			
Parallel: ESP, 8 Bits, Interactive		15360 bytes	
IF 1: CrownNet 6.10E1+, ESP, HW address: 08 00 85 10 B3 00, Enabled		15360 bytes	
USB: ESP		15360 bytes	
Share Spooling Space		475208 bytes	

# 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 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.

### Attention

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**We recommend an internal hard disk for optimum performance when printing large PDF files. Refer to the *CrownBooks* (in PDF on the *Documentation CD-ROM*) 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 Timeout expires. The factory default setting for this timeout is 30 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 flat, hard, stable, level surface.	Allowing buildup of static electricity from fanning large quantities of transparencies, or buildup of transparencies in the output tray.
You have the correct media type selected if you're printing on envelopes, labels, thick stock, or transparencies.	Loading more than one type/size/weight of media in a tray at the same time.
You store media in a dry location away from moisture and humidity.	Overfilling the media input trays.
You always adjust the media width regulation guides in the media tray <i>after</i> inserting the media.	Allowing the output tray to fill past the limit of 400 sheets of 20 lb bond (64 g/m <sup>2</sup> ) plain paper.
You load the media printing-side up.*	Allowing the 4-bin mailbox to fill past the limit of 50 sheets of 20 lb bond (64 g/m <sup>2</sup> ) plain paper.
<b>Notes:</b> <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>	

## 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.

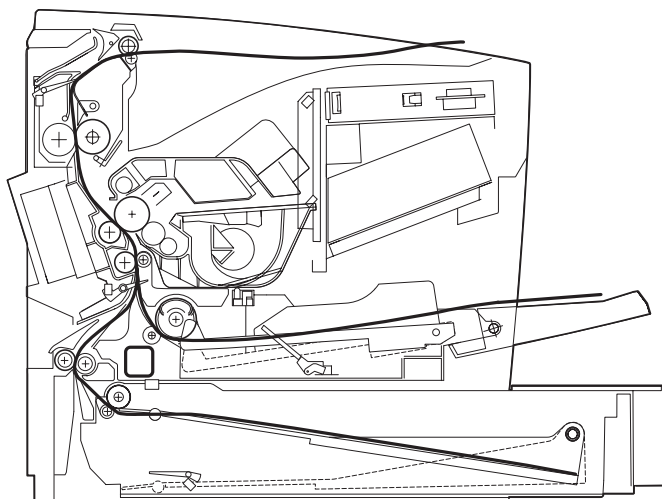


*For automatic jam recovery to work, it is necessary to leave the printer turned on when you remove the jammed media. After the jam is cleared, open and close the top cover before printing. Printing will not resume until you do this.*

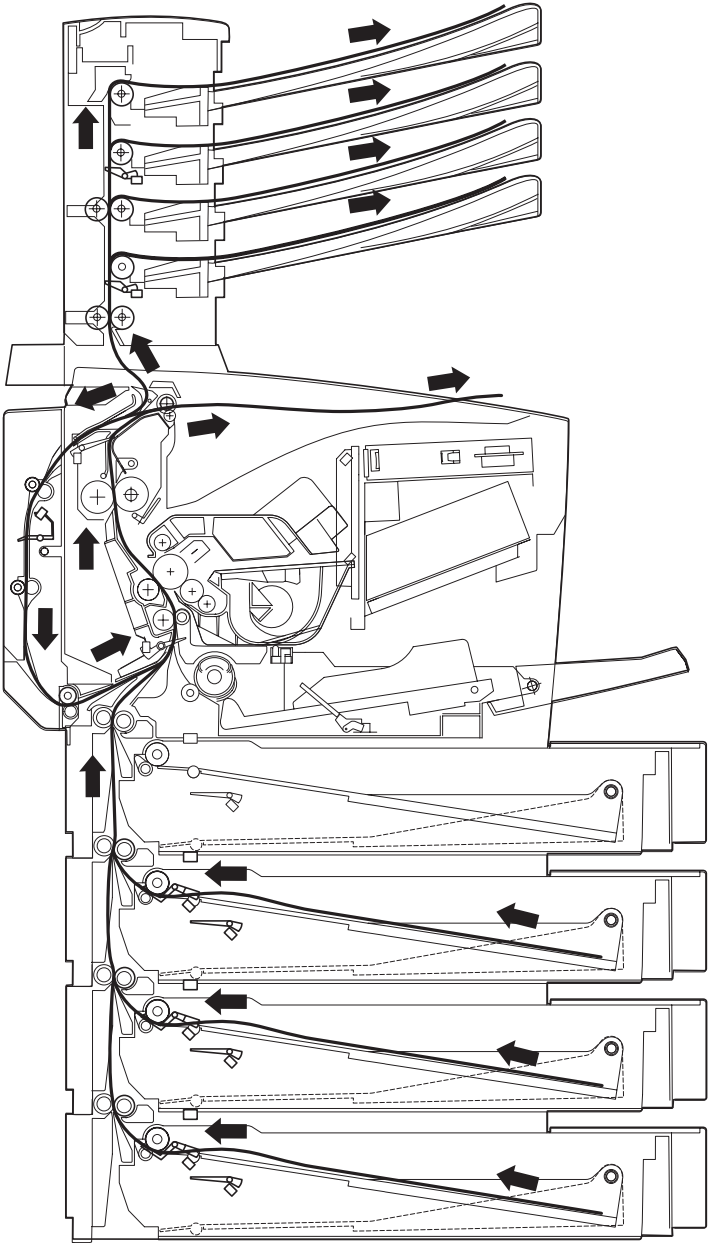
## Understanding the Media Path

Understanding the printer's media path will help you locate media jams. Media is picked from the tray, passed under the toner cartridge and transfer unit, passed through the fuser, and delivered to the output tray.

### Printer



**Printer, Optional Tray(s), Duplexer, and 4-bin Mailbox**



# Understanding Media Jam Status Messages

When a jam occurs, the message window on the control panel displays one of these messages:

- Media input jams

MEDIA JAM UPPER TRAY, MEDIA JAM OPTIONAL1(OR 2 OR 3)  
TRAY, MEDIA JAM MPT

- Internal media jams

MEDIA JAM FUSER, MEDIA JAM DRUM, MEDIA JAM DUPLEX,  
MEDIA JAM DUPLEX FEEDER, MEDIA JAM TRANSPORT

- Output media jams

MEDIA JAM MAIL BIN

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.

## Clearing Media Input Jams

Messages:

MEDIA JAM UPPER TRAY, MEDIA JAM OPTIONAL1(OR 2 OR 3)  
TRAY, MEDIA JAM MPT

- 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 media path and cause further jams.
- To avoid damage to rollers, always remove jammed media gently.
- Do not reload media that has jammed.

### Attention

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**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.

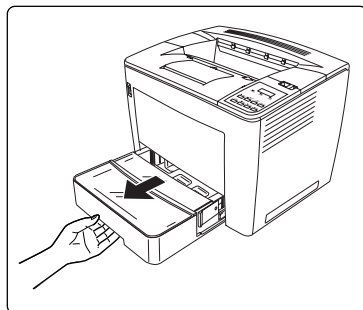
## WARNING!

If you get toner in your eyes, wash it out immediately with cool water and consult a doctor. Material Safety Data Sheets (MSDS) can be found at [www.minolta-qms.com](http://www.minolta-qms.com) (click on Online Help & Drivers).

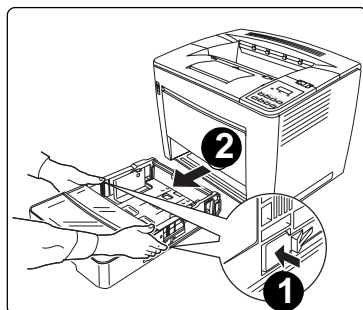
**ACTUNG!** Sollte Toner in Ihre Augen gelangen, die Augen unbedingt sofort mit kaltem Wasser ausspülen und einen Arzt aufsuchen. MSDS (Material Safety Data Sheets; Datenblätter zur Materialicherheit) finden Sie im Internet unter [www.minolta-qms.com](http://www.minolta-qms.com) (klicken Sie auf "Online Help & Drivers").

## How do I remove a media jam in the upper or optional media tray(s)?

- 1 Pull out the media tray until it stops.



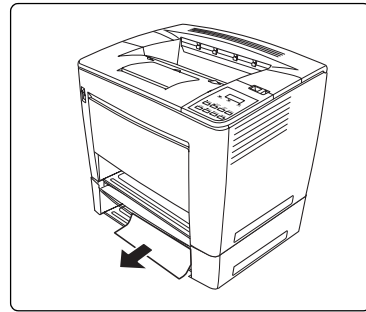
- 2 While pressing in the release buttons (one on each side), remove the tray.



### 3 Pull out the misfed media.

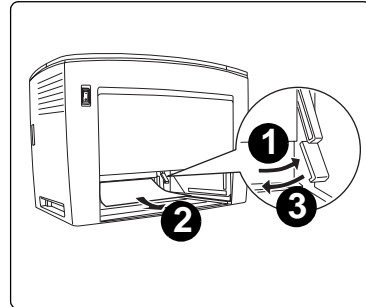


*Make sure no media remains under the roller in the tray.*



### 4 If the misfed media cannot easily be pulled out, lift the green lever ① on the inner-right side to release the media feed roller, and then pull out the media ②. After removing the misfed media, be sure to return the green lever to its original position ③.

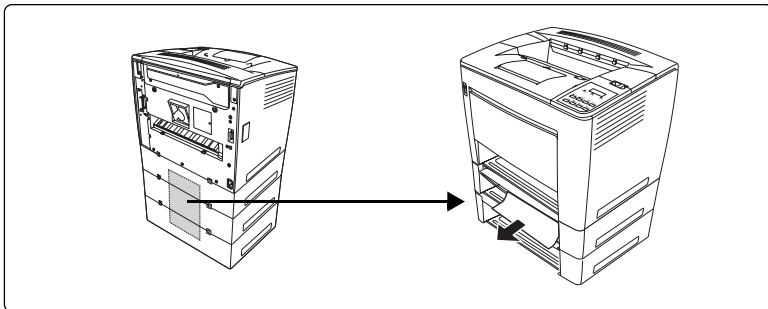
*Do not use force to remove jammed media.*



### 5 If you have optional media tray(s), repeat steps 1–4 for each optional media tray installed.



*At times, the media may be stopped inside the optional media tray(s) (in back, along the media path). Check inside the trays from the **front** of the printer, and remove any misfed media.*

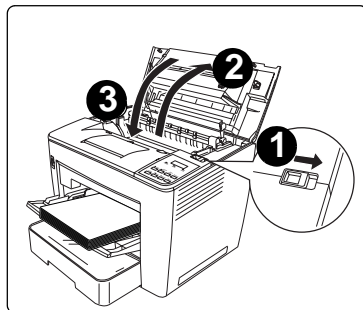
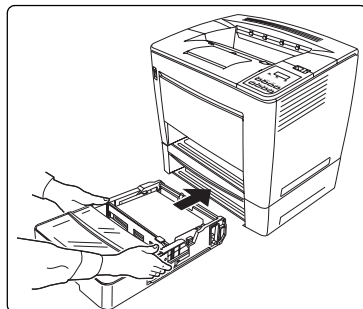


- 6 Install the media tray(s), inserting it (them) as far as possible into the printer.



*Check that the media remaining in the media tray(s) is loaded correctly before installing the tray(s). Make sure no media remains misfed under the roller in the tray.*

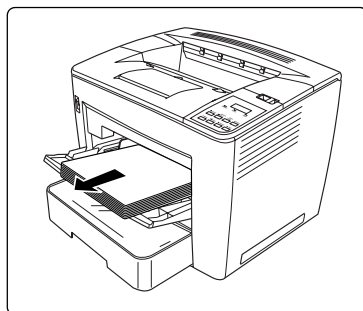
- 7 If necessary, open and close the top cover to cancel the error message.



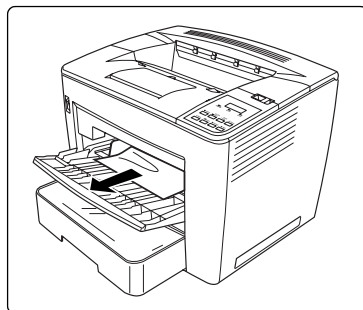
## How do I remove a media jam in the multipurpose media tray (MPT)?



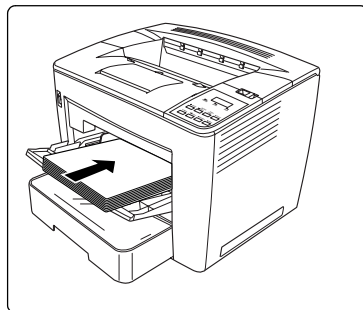
- 1 Remove all media from the multipurpose tray.



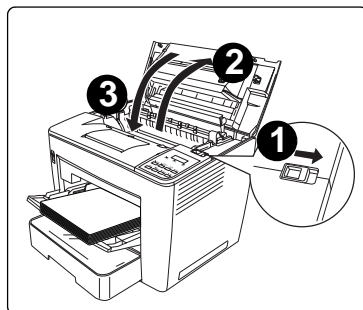
- 2** Pull out the misfed media.



- 3** Correctly load the media into the multipurpose tray.



- 4** If necessary, open and close the top cover to cancel the error message.





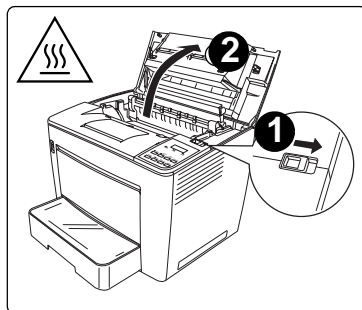
# Clearing Internal Jams

## How do I remove a media jam inside the printer?

Internal media jams messages:

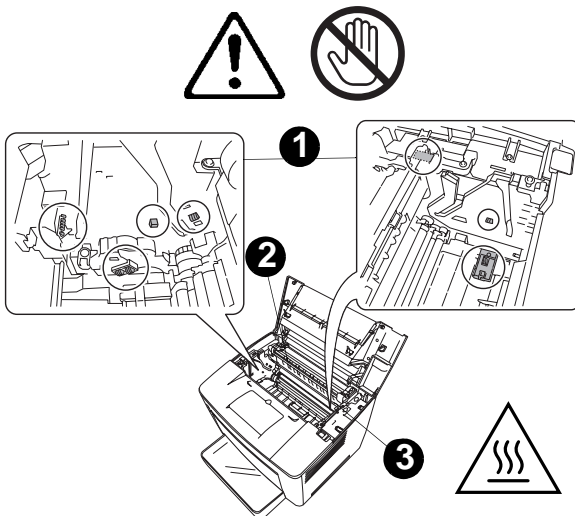
MEDIA JAM FUSER, MEDIA JAM DRUM, MEDIA JAM DUPLEX, MEDIA JAM DUPLEX FEEDER, MEDIA JAM TRANSPORT

- 1 Open the top cover.



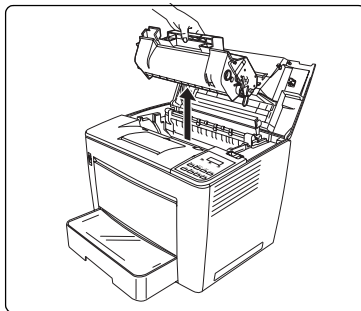
### Attention

Never touch the copper or brass electrodes ① or electrical parts that are located inside the top cover and underneath the toner cartridge, as a printer malfunction can result.



Be careful not to touch ② around the image transfer roller (*touching certain parts in this area may result in reduced print quality*) or ③ around the fusing unit (*since the inside reaches temperatures of about 392 °F (200 °C), touching any part in this area may result in burns*).

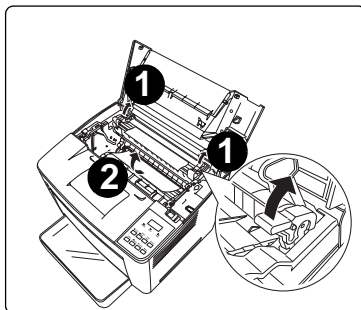
- 2 Remove the toner cartridge and store it in a light-free protective bag.



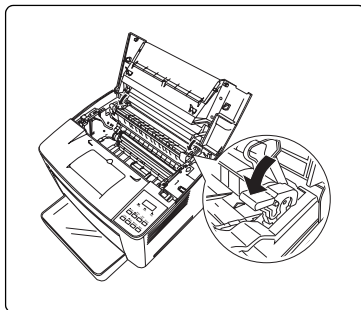
- 3 If the media is stopped by the fuser, lift the green levers on each side, and then slowly pull out the media from below the roller.

**⚠ Attention**

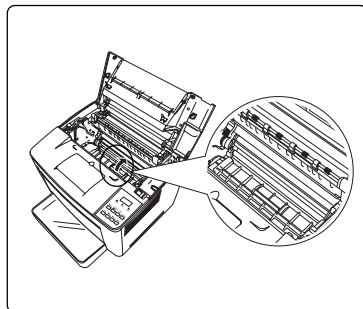
**Do not pull out the media from above the roller; otherwise, decreased print quality may result.**



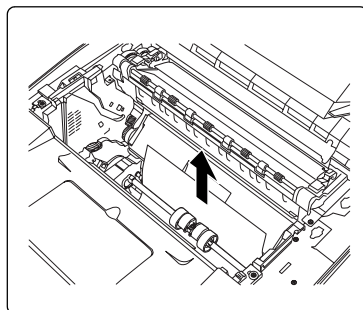
- 4 After removing the misfed media, lower the two levers.



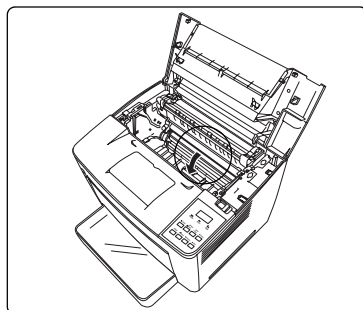
- 5 Open the media feed roller cover.



- 6 Pull out the jammed media.



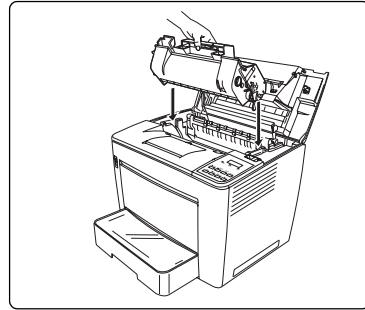
- 7 Close the media feed roller cover.



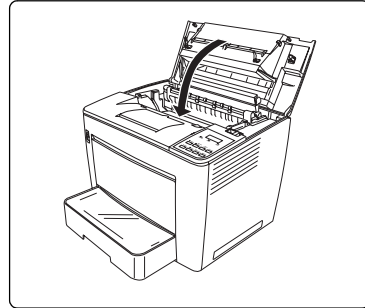
- 8 Align the tabs on the toner cartridge (one on each side) with the notches in the printer, and then insert the cartridge as far as possible.

**⚠ Attention**

**Do not touch the rollers or gears within the printer; otherwise, the printer may be damaged.**

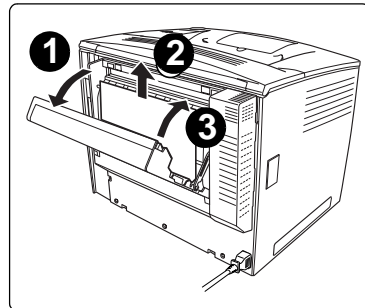


- 9 Close the top cover.

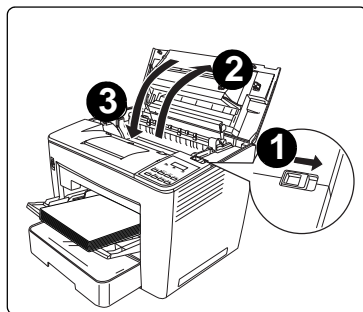
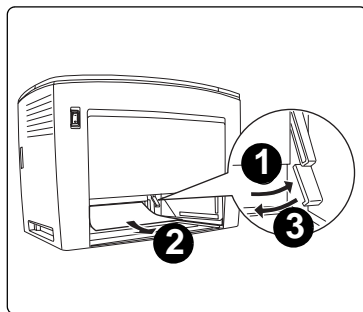
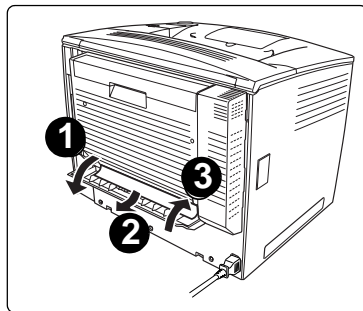


**How do I remove a media jam inside the duplex unit? 📺**

- 1 Open the upper cover ① of the duplex unit, remove the jammed media ②, and then close the upper cover ③.



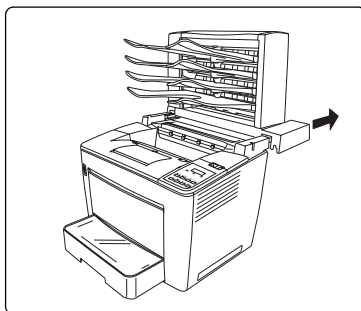
- 2 Open the lower cover ① of the duplex unit, remove the jammed media ②, and then close the lower cover ③.
- 3 If the media jam error is not cancelled after removing the misfed media according to the previous procedure, remove the duplexer from the printer. Refer to “Failure to follow instructions as outlined in this chapter could result in voiding your warranty.” on page 138.
- 4 Remove any media in the feed slot at the bottom of the back of the printer.
- 5 Reinstall the duplexer. Refer to “Installing a Duplexer” on page 115.
- 6 If necessary, open and close the top cover to cancel the error message.



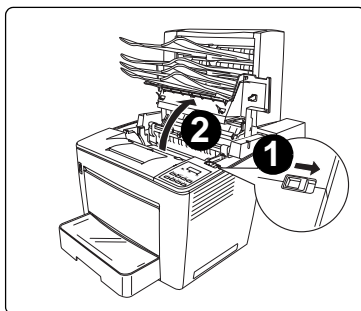
## How do I remove a media jam inside the printer with the 4-bin mailbox installed?



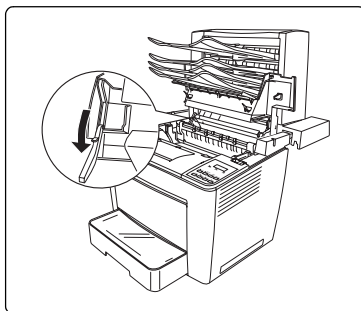
- 1 Slide the mailbox as far as possible to the back of the printer.



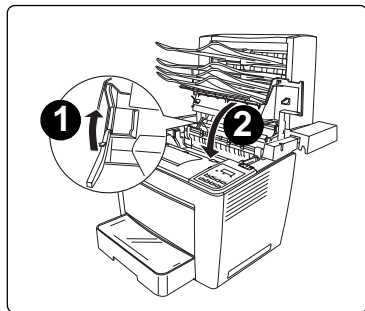
- 2 Open the top cover.



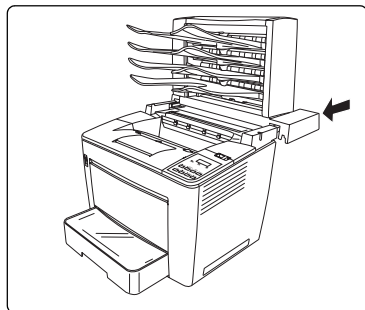
- 3 Fully lower the stopper to support the top cover.
- 4 Follow the procedure for removing a media jam on Page 71.



- 5 Return the stopper to its original position ①, and then close the top cover ②.



- 6 Slide the mailbox forward to its original position.



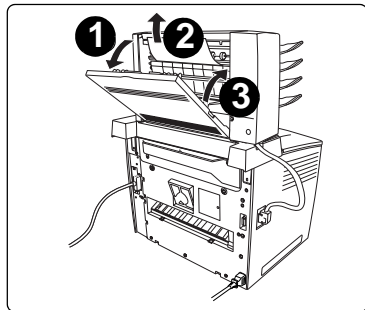
## Clearing Output Jams

Output media jams message:

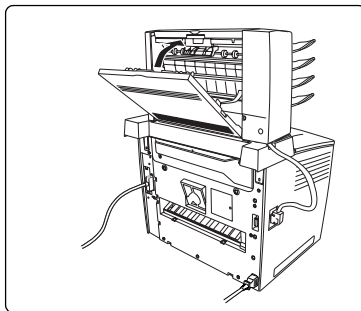
MEDIA JAM MAIL BIN

**How do I remove a media jam inside the 4-bin mailbox?** 

- 1 Open the back cover ①, and then remove the jammed media ②.



- 2 Close the back cover of the mailbox.
- 3 If necessary, open and close the top cover to cancel the error message.



### How do I remove a media jam in the output bin?

- 1 Remove the media from the output bin.
- 2 If necessary, gently pull out any media that is still jammed.



# Solving Problems

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. Change the printer to Single User Mode (Operator Control/Media Mode menu).
	The driver is not set correctly.	Select the proper driver media setting.
	The media is moist from humidity.	Adjust the humidity for media storage. Remove the moist media and replace it with new, dry media.
	The power source does not match the printer specifications.	Use a power source with the proper specifications.
	Several sheets are being feed at the same time.	Remove the media from the tray and check for static electricity. Fan plain paper or other media (but not 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.
	The printer is set up on a stand smaller than the bottom area of the printer.	Relocate the printer on a flat, hard, stable, level surface that is large enough to hold the printer.
	Media sizes or types are not correct.	Make sure that you are using the correct media. See "Using Media" on page 23.
	The media tray or tray cover was not correctly installed.	Check that your media tray(s) and tray covers are properly installed and inserted.
	The media was not properly aligned before it was loaded.	Remove the media, tap it to straighten it out, return it to the media tray, and realign the media guides.

Symptom	Cause	Solution
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.
Several sheets go through the printer together.	Too much static electricity is present.	Do not fan large quantities of transparency media.
Media is jamming	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.
	Transparency (OHP) media being fed from the upper or optional trays is not feeding correctly.	Envelopes, labels, postcards, special stock, thick stock, and transparencies can be printed only from the multi-purpose tray.
	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.
	The recommended transparency (OHP) or label media are 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.

Symptom	Cause	Solution
Media is jamming.	The wrong media tray is used.	Envelopes, labels, postcards, thick stock, and transparencies 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.
	The recommended transparency (OHP) or label media are 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.
Media jam message stays on.	The printer needs to be reset.	Open and close the top cover.
	Some media remains jammed in the printer.	Recheck the media path and make sure you have removed all of the media jams.

Symptom	Cause	Solution
Duplex jams occur.	The wrong media is being used.	Use only supported media. Refer to the "Media Types" on page 35.
		Plain paper and stock up to 28 lb bond (105 g/m <sup>2</sup> ) 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 80.
	Media may still be jammed.	Recheck the media path and make sure you have removed all of the media jams.
	If you are manually duplexing, media jams may occur if the printed sheet(s) reinserted are not entirely flat	Remove the jammed media from the tray, flatten it out, and reload it.
4-bin mailbox jams occur.	Media may still be jammed.	Recheck the media path and make sure you have removed all of the media jams, even in the mailbox.

## 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.	If the outlet is connected to a switch, turn on the switch.  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, "Technical Specifications."
"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 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 &amp; Support Guide</i> for support telephone numbers.

Symptom	Cause	Solution
Printing takes too much time.	The printer is set to a slower printing mode (Thick Stock or Transparency media types).	It takes more time to print with special media types, such as Transparencies. 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.
	The printer is set for Single User Mode.	If getting your jobs printed in a timely manner is most important, use Network Mode (Operator Control/Media Mode menu).
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 <sup>2</sup> ), labels, postcards, thick stock heavier than 28 lb bond (105 g/m <sup>2</sup> ), 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.	Load the media printing-side up.




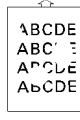
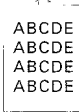
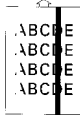
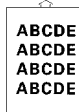

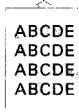

Symptom	Cause	Solution
Characters print incorrectly.	The fonts are set incorrectly on your printer driver.	Check your driver (Properties/Fonts tab) to make sure you are using the correct fonts (such as TrueType fonts).
You hear unusual noises.	The printer is not level.	Put the printer on a flat, hard, stable, level surface.
	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 &amp; Support Guide</i> for the office closest to you.
The printer goes into power-saving mode.	The printer automatically switches to power-saving mode after 30 minutes 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> in PDF on the <i>Documentation</i> CD-ROM.
	You do not have a hard disk installed.	Install a hard disk.
The fonts list was not updated after downloading a font to disk.	The printer's font list has not been refreshed.	Print an advanced status page. The downloaded fonts should now appear.

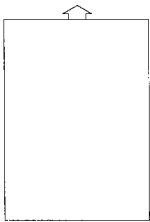
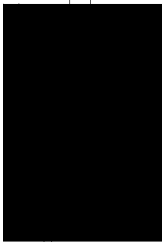
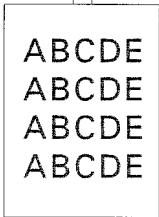
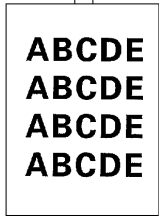
Symptom	Cause	Solution
The printer is not receiving data from the computer. <i>(The Data indicator doesn't blink after a file is sent.)</i>	The printer is not on line.	Put the printer on line and verify that the message window displays <code>IDLE</code> .
	The emulation has been changed from ESP to an 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> in PDF on the <i>Documentation</i> CD-ROM.
	The port setting is incorrect.	For Ethernet, parallel, or USB 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.
In the Security menu with Enable Password set, a telnet session asks for a password when entering the admin mode.	In the "Security/Admin Menu" menu, the password you set will affect both the admin mode and the Admin Menu.	Use the password you set for the Security/Admin Menu for the telnet admin mode.

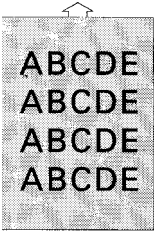
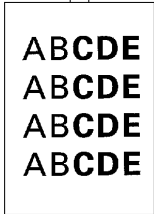
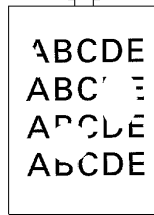


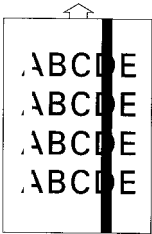
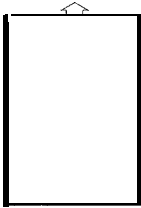
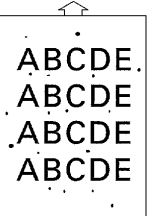
# Printing Quality

## Summary

If printed page looks like this...	Check this...			If printed page looks like this...	Check this...		
	Toner Cartridge	Image Transfer Roller	Media Feed Roller or Media		Toner Cartridge	Image Transfer Roller	Media Feed Roller or Media
	Page 84				Page 85	Page 85	
	Page 84						Page 85
	Page 84				Page 86		
	Page 84						Page 86
	Page 85					Page 86	

Symptom	Cause	Solution
Blank page 	The toner cartridge may be defective.	Remove the toner cartridge and check it for damage. Replace the toner cartridge, if necessary.
Black page 	The toner cartridge may be defective.	Remove the toner cartridge and check it for damage. Replace the toner cartridge, if necessary.
	Your printer may require servicing.	Contact your local vendor, or refer to the <i>Service &amp; Support Guide</i> or <a href="http://www.minolta-qms.com">www.minolta-qms.com</a> for further information.
Print too light 	The toner cartridge may be running out of toner.	Remove the toner cartridge and shake it left and right a few times to distribute remaining toner.  If the problem persists, replace the toner cartridge.
	The toner cartridge may be defective.	Remove the toner cartridge and check it for damage. Replace the toner cartridge, if necessary.
Print too dark 	The toner cartridge may be defective.	Remove the toner cartridge and check it for damage. Replace the toner cartridge, if necessary.

Symptom	Cause	Solution
Blurred background 	The toner cartridge may be defective.	Remove the toner cartridge and check it for damage. Replace the toner cartridge, if necessary.
Uneven print density 	The toner may be unevenly distributed inside the toner cartridge.	Remove the toner cartridge and shake it left and right a few times to distribute remaining toner.
	The toner cartridge may be defective.	Remove the toner cartridge and check it for damage. Replace the toner cartridge, if necessary.
	The image transfer roller may be defective.	Remove the image transfer roller and check it for damage. Replace the image transfer roller, if necessary.
Irregularities 	The media may have absorbed some moisture due to high humidity or because of direct contact with water.	Since toner will not adhere well to wet media, replace the media you are using with dry media and try printing again.

Symptom	Cause	Solution
White or black lines 	The toner cartridge may be defective.	Remove the toner cartridge and check it for damage. Replace the toner cartridge, if necessary.
Dark lines on the edges. 	The transfer roller is dirty.	Replace the transfer roller.
Toner smudges 	The toner may be unevenly distributed inside the toner cartridge.	Remove the toner cartridge and shake it left and right a few times to distribute remaining toner.
	The toner cartridge may be defective.	Remove the toner cartridge and check it for damage. Replace the toner cartridge, if necessary.
	Smudges on the back of the media indicate a dirty media feed roller.	Remove the media feed roller and check it for debris. Replace the media feed roller with a new one, if necessary. Contact your local vendor, or refer to the <i>Service &amp; Support Guide</i> or <a href="http://www.minolta-qms.com">www.minolta-qms.com</a> for further information.

# 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* in PDF on the *Documentation* CD-ROM. for further information.



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

## Status and Error Messages

This message...	means...	do this...
ACC DISABLED	The accounting option selected is now in effect.	No action needed.
ACC ENABLED		
ACC FILE 95% FULL ACC FILE 90% FULL ACC FILE 85% FULL ACC FILE 80% FULL	The Job Accounting File is 80, 85, 90, or 95% full.	<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>

<b>This message...</b>	<b>means...</b>	<b>do this...</b>
ACC FILES GOT REMOVED	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.	No action needed.
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>
ADJUST <X> BIN	The specified inputbin <X> is not inserted correctly and needs attention.	Readjust the media and media guides, and reinstall the inputbin (media tray), if necessary.
CANCEL <N>	The Cancel key has been pressed, and 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.

<b>This message...</b>	<b>means...</b>	<b>do this...</b>
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.
CREATED FILE	The accounting file has been created.	No action needed.
CREATING XXXXXXXXXXXXX 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 (XXXXXXXXXXXXX represents the Job Accounting or Paper Accounting file).	Wait. No other action needed.
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> in PDF on the <i>Documentation</i> CD-ROM.
DUPLEX <X>	The specified message <X>, such as DUPLEX MEDIA ERROR, in the duplexer needs attention.	Locate and resolve the message.
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.

<b>This message...</b>	<b>means...</b>	<b>do this...</b>
ENERGY SAVER	Energy Saver has been activated. 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.
<X> COVER OPEN	The specified cover <X> is not closed properly.	Close the cover.
<X> BIN FULL	The specified outputbin <X> is full and needs to be emptied.	Remove the media from the outputbin.
<X> BIN JAM	The specified outputbin <X> has jammed media.	Locate and remove the jam. Also, check the media pickup rollers for wear. If necessary, replace all of them.
IDLE	The printer is on line, but no jobs are in process.	No action needed.



<b>This message...</b>	<b>means...</b>	<b>do this...</b>
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 TONER CARTRIDGE	You have attempted to install a non-approved toner cartridge, causing the printer to operate incorrectly.	Use only the approved MINOLTA-QMS consumables. For information about ordering consumables, refer to <a href="http://www.minolta-qms.com">www.minolta-qms.com</a> or <a href="http://www.q-shop.com">www.q-shop.com</a> .
LOW RELEASE LEVEL	You are attempting to download previous versions of the system software.	Wait. The system software update will abort without operator intervention if the system software on the CD-ROM is the same as, or older than, the one currently installed on the printer controller.
MAILBIN <X>	The specified message <X> in the 4-bin mailbox needs attention.	Locate and resolve the message.
MEDIA JAM <X>	A media jam in the specified location <X> may mean that media has jammed, that a sheet of media was not being picked up, or that the media pickup rollers need cleaning or replacement.	Locate and remove the jam. Also, check the media pickup rollers for wear. If necessary, replace all of them.
<X> OUTPUT BIN FULL	The media has exceeded the limit in the <X> output bin.	Remove the media from the specified output bin.

<b>This message...</b>	<b>means...</b>	<b>do this...</b>
PAPER SIZE MISMATCH	The media detected in the tray doesn't match the media size setting.	Change the media in the tray or change the media size setting in the driver.
PRINTING STATUS	A status page is printing.	Wait until after the status page prints and the message clears.
PUT <X> IN <Y> BIN	The specified input tray <Y> needs to be refilled with the specified media <X> size or type, for example, letter-sized label stock.	Refill the specified input tray with the specified media.
RESETTING ACCOUNTING	The reset accounting operation is in process.	Wait. No other action needed.
SYS UPDATE ERROR <X>	The indicated error <X> has been reported.	Verify the update file and send it again or check with <a href="http://www.minolta-qms.com/support">www.minolta-qms.com/support</a> and click on the Answer Base for the latest code update.
TONER CART. MISINSTALLED	The toner cartridge is not seated properly in the printer.	Reinstall the approved MINOLTA-QMS toner cartridge.
TONER EMPTY	The toner cartridge is empty.	Replace the toner cartridge and, if no duplexer is installed, the exhaust filter.
TONER LOW	The toner cartridge is nearing the end of its life. Approximately 750 letter/A4 pages (at 5% coverage) after the printer displays TONER LOW, the printer stops.	No action needed. If print quality is reduced, replace the toner cartridge and, if no duplexer is installed, the exhaust filter.

<b>This message...</b>	<b>means...</b>	<b>do this...</b>
<X> MISINSTALLED	The specified item <X>, such as the toner cartridge, is misinstalled.	Reinstall the item.
WARMING UP	The printer is getting ready to print.	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, check the *Service & Support Guide* for additional contact information or MINOLTA-QMS-authorized service providers.

<b>This service message...</b>	<b>means...</b>	<b>do this...</b>
SERVICE CALL <X>	An error has been detected with the item indicated <X> in the service message. A service call is needed.	Reboot the printer. If the condition persists, contact your local vendor and place a service call. Refer to the <i>Service &amp; Support Guide</i> or <a href="http://www.minolta-qms.com">www.minolta-qms.com</a> for further information.

## 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.

<b>Menu</b>	Administration/Startup Options/Do Error Handler
<b>Choices</b>	Yes—Load the Error Handler on reboot. No—Don't load the Error Handler on reboot.
<b>Default</b>	No
<b>Notes</b>	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](http://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](http://www.minolta-qms.com) for current information on getting help.



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## ***Installing Other Accessories***

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# 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

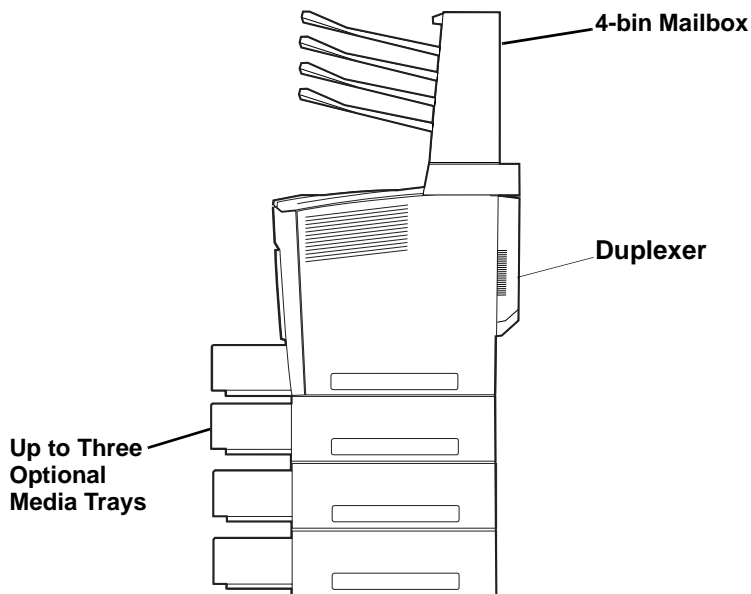
Use of accessories not manufactured/supported by MINOLTA-QMS is not supported by your printer and will void your warranty.

This chapter provides information about the following accessories. Contact your local vendor or [www.minolta-qms.com](http://www.minolta-qms.com) for purchase information.

4-bin Mailbox	Optional
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 in the two DIMM slots
Duplexer	With built-in exhaust filter
Emulations, Fonts, Forms, and Other Software	<ul style="list-style-type: none"><li>■ ImageServer</li><li>■ VMS Host Software</li><li>■ CGM</li><li>■ Kanji Font Internal IDE Hard Disk Drive</li><li>■ QFORM</li><li>■ PlanetPress (forms-creation utility)</li><li>■ QUIC II</li><li>■ Fonts</li></ul>
Interfaces and Daughterboards	<ul style="list-style-type: none"><li>■ CrownNet for Ethernet 10BaseT/100BaseTX (equipped with RJ45 connector)</li><li>■ CrownNet for Token-Ring (equipped with STP and UTP connectors)</li></ul>
Internal IDE Hard Disk Drive	Optional



<b>Optional media tray(s)</b>	Up to three optional 500-sheet media trays may be added.  Purchasing extra trays may be convenient when changing media formats and/or when media qualities vary.
<b>Time-of-Day Clock</b>	Optional



See appendix A, "Technical Specifications" on page 145 for dimensions and clearances.

If MINOLTA-QMS printer failure or damage is found to be directly attributable to the use of non-MINOLTA-QMS 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.

## Attention

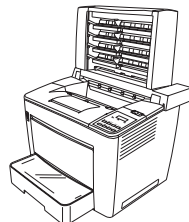
It's very important to protect the printer controller board and any associated daughterboard or module from electrostatic damage while performing any task involving the controller board.

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.

## 4-bin Mailbox

Use the 4-bin mailbox to output collated print jobs, or choose a specific bin to output to individually. Mailbin 1, Mailbin 2, Mailbin 3, and Mailbin 4 can be renamed for your convenience (Administration/Engine/Output X Bin Name menu option), but you may not select the named bin and also collate a print job at the same time.

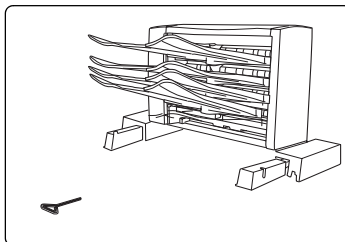


### What's in the 4-bin mailbox kit?

- Mailbox
- Transport unit
- 4 bins (renamable)
- Allan wrench



*A common screwdriver is needed for this procedure.*



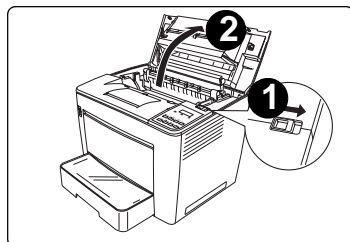
## Installing the 4-bin Mailbox



*If both the duplexer and the 4-bin mailbox are to be installed, install the 4-bin mailbox first.*

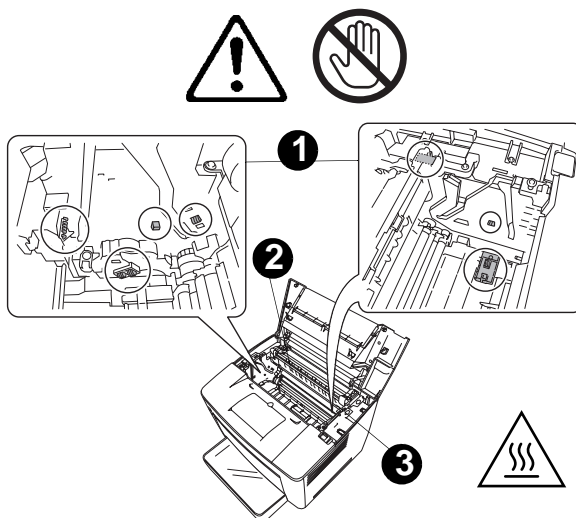
*If the duplexer is already installed, remove it before installing the 4-bin mailbox. See "Failure to follow instructions as outlined in this chapter could result in voiding your warranty." on page 134.*

- 1 Turn off the printer and unplug the power supply cord and interface cable.
- 2 Open the top cover.



### **Attention**

Never touch the copper or brass electrodes ① or electrical parts that are located inside the top cover and underneath the toner cartridge, as a printer malfunction can result.



Be careful not to touch ② around the image transfer roller (*touching certain parts in this area may result in reduced print quality*) or ③ around the fusing unit (*since the inside reaches temperatures of about 392 °F (200 °C), touching any part in this area may result in burns*).

- 3 With the top cover slightly closed, pull out the tabs ① (two on each side).

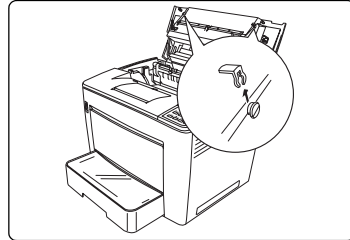
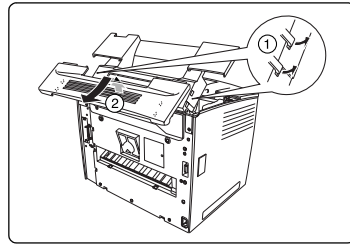
*Pulling the tabs with force may break them.*

- 4 At the back of the top cover, slightly pull up the back section, and then remove it ②, sliding it toward the back of the printer.

- 5 Remove the brackets (one on each side) at the rear of the top cover.

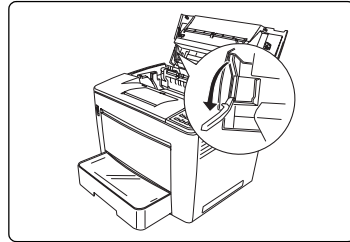


*Keep the removed back section of the top cover and the brackets in a safe place for future use.*



- 6 Lower the stopper at the back left of the top cover.

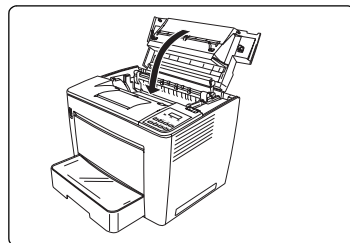
*The stopper prevents the top cover from closing when the 4-bin mailbox is installed.*



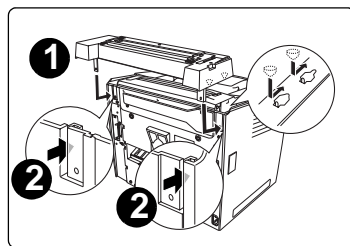
### **⚠ Attention**

**Before using the printer after removing the 4-bin mailbox, make sure that the stopper lowered in step 6 is returned to its original position.**

- 7 Close the top cover.



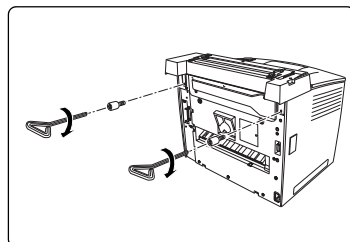
- 8 Attach the transport unit ① to the printer.
- 9 Insert the metal tabs on the left and right sides ② of the transport unit into the notches in the printer, and then slide the transport unit toward the front of the printer to install it.



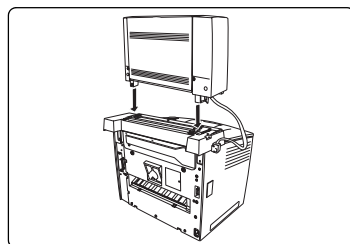
- 10 Using the wrench and screws supplied with the 4-bin mailbox, secure the left and right brackets on the transport unit to the printer.



*After using the wrench, keep it in a safe place for future use.*



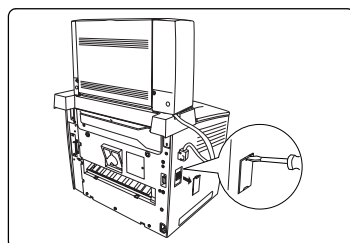
- 11 Attach the 4-bin mailbox to the transport unit.
- 12 Insert the extensions (one on each side) at the bottom of the 4-bin mailbox into the holes in the transport unit, pushing down until they lock into place.



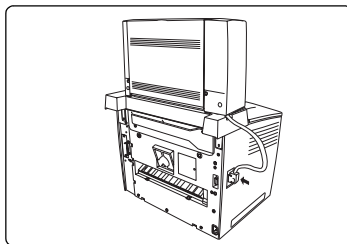
- 13 Using a screwdriver, remove the connector cover on the left side of the printer.



*Keep the removed connector cover in a safe place for future use.*

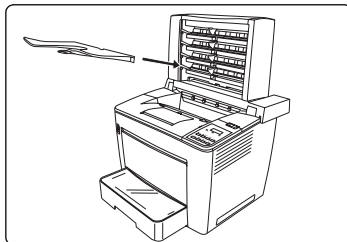


- 14** Insert the 4-bin mailbox cable into the connector on the left side of the printer until it locks into place.



- 15** Install the four mailbins (trays) onto the 4-bin mailbox by inserting the tabs on the left and right sides of the tray into the slots in the 4-bin mailbox.

*Install the trays starting from the bottom.*



- 16** Reconnect all interface cables.

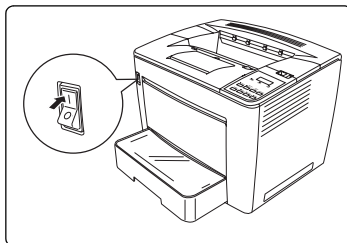
- 17** Reconnect the power cord and turn on the printer.



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



*Before moving the printer, even just a small distance, be sure to disconnect and remove the 4-bin mailbox from the printer. Refer to "How do I remove a duplexer?" on page 135.*



## 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 BuzzBox kit?

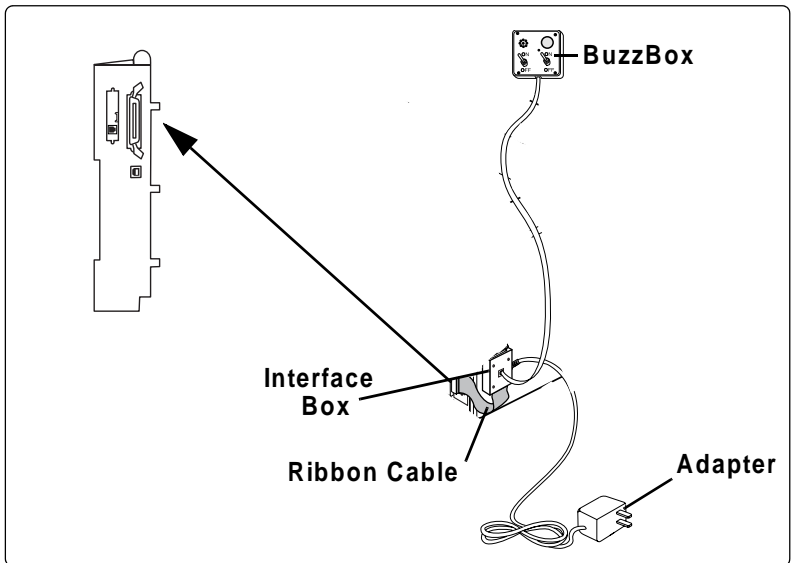
The BuzzBox kit contains the following items:

- 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 the 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 87 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 PagePro 9100 comes with 64 MB SDRAM printer memory.

However, you can upgrade the PagePro 9100 to a maximum of 512 MB of RAM through the installation of additional DIMMs. Two DIMM slots are available. Additional memory must be 32, 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 media size for your printing (refer to the *CrownBooks* in PDF on the *Documentation* CD-ROM for further information).

Print Type   
--

# Installing Dual In-Line Memory Modules

## 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 100. 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.*

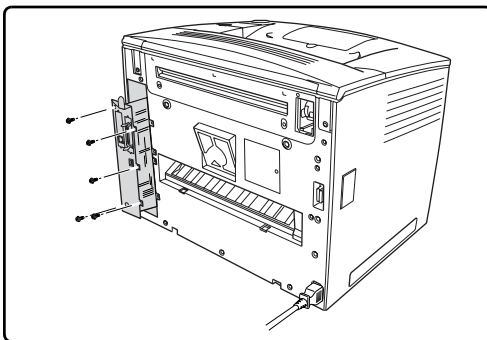
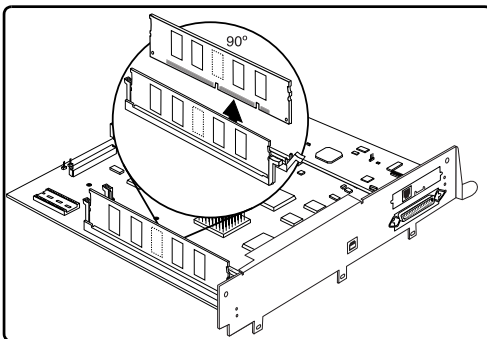


*Installing DIMMs automatically restores memory defaults. If your memory settings are specific to your environment, print an advanced status page before installing DIMMs, so you can recover the current memory settings.*

- 2 Turn off the printer and disconnect the power cord and all interface cables.
- 3 Remove the controller board.

*Loosen four screws, and pull the controller board from the printer.*

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

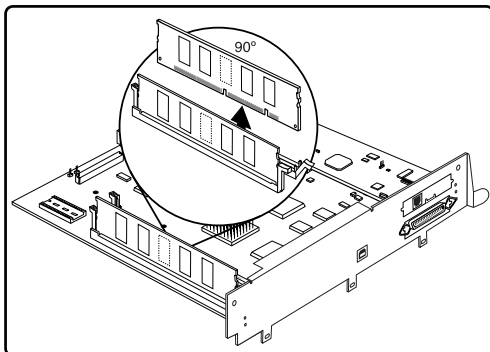




*If you want to install more memory, you may exchange one or more DIMMs for DIMMs with a greater memory capacity.*

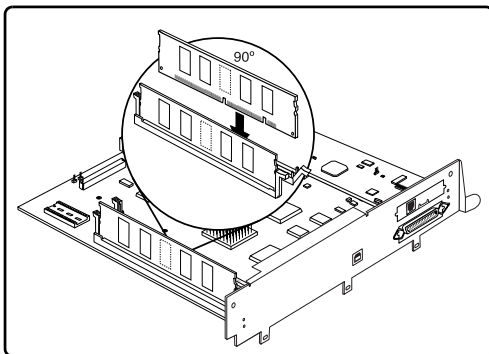
- 5** If you need to remove a DIMM before installing one, remove it as follows; otherwise, skip to step 6.

- 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 four screws.*


- 8** Reconnect all interface cables.

- 9** 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."*

- 10 Print a startup page or an advanced status page, and verify that the total size of the RAM installed in your printer is listed.



**Startup Page**

**PRINTER INFORMATION**  
Product Name: PagePro 9100  
Printer Name: pctest5  
Serial Number: Q  
System Software Release: 1.0.1  
Language Version: 3010.041, Revision 27  
Installed Memory: 64 MB  
Typeface Fonts: 252  
Current Resolution: 600x600

**USAGE SUMMARY**  
Faces Printed: 19128  
Sheets Printed: 15250  
A3/11x17 Faces Printed: 0  
A3/11x17 Sheets Printed: 0  
Transparencies: 79

**PAPER SOURCES**  
Multipurpose(Bin1): letter  
Standard(Bin2): letter  
Optional1(Bin5): letter  
Optional2(Bin6): letter  
Optional3(Bin7): letter

[www.minolta-qms.com](http://www.minolta-qms.com)


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

**USB**  
Emulation: ESP







**OPTIONAL NIC: Enabled**  
Type: CrownNet 6.10ET+  
Emulation: ESP  
HW Address: 08.00.86.16.B3.3B  
IP Address: 000.000.000.000

**INSTALLED OPTIONS**  
Duplexer  
Mailbox

**PagePro**  
9100

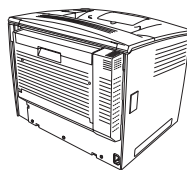


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# Duplexer

Duplex (2-sided) printing can be done automatically with a duplexer and enough memory installed. See “Duplexing” on page 45.



## What's in the duplexer?

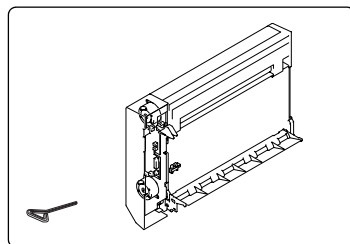
- Duplexer
- Wrench

## Installing a Duplexer

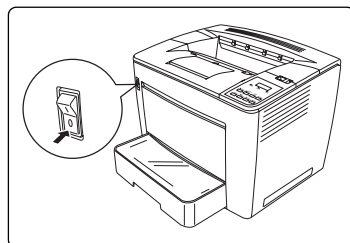


*If both the optional duplexer and the 4-bin mailbox are to be installed, install the 4-bin mailbox first.*

*If the duplexer is already installed, remove it before installing the 4-bin mailbox. See “Failure to follow instructions as outlined in this chapter could result in voiding your warranty.” on page 134.*



- 1 Turn off the printer, and unplug the power supply cord and interface cable.

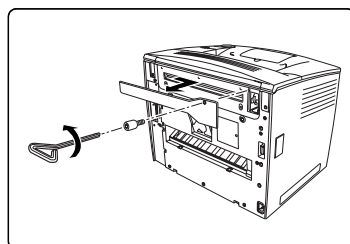


- 2 Remove the cover from the back of the printer.

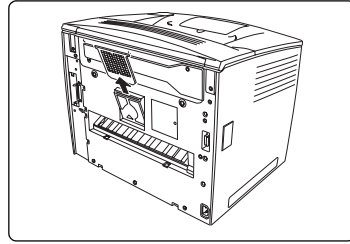
*Since the back cover is secured with a screw, use the wrench supplied with the duplexer to loosen it.*



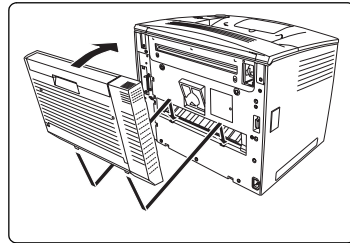
*Keep the removed cover in a safe place for future use.*



- 3 If the exhaust filter has been installed, remove it



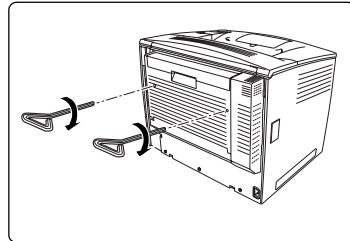
- 4 Attach the duplexer to the printer.
- a Hook the two tabs at the bottom of the duplexer onto the notches on the back of the printer.



### Attention

**If the duplexer is released before it is secured with the screws, it may fall and break. Be sure to keep the top of the duplexer supported until the screws are tightened.**

- b Using the wrench supplied with the duplexer, tighten the two screws on the duplexer to secure it to the printer.



*The two screws are attached to the duplexer and cannot be removed.*

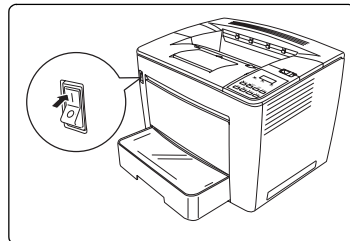


*After using the wrench, keep it in a safe place for future use.*

- 3 Reconnect all interface cables.
- 4 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."*



# Emulations, Fonts, and Other Software

## Emulations

Optional emulations, such as ImageServer 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.



- 10 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.*



*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.

## 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, and MINOLTA-QMS QUIC fonts.
- Develops custom PCL, PostScript, 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 PagePro 9100 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

QFORM allows you to use existing lineprinter and forms-printing applications on your PagePro 9100. 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 preprinted 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 CrownAdmin 3 Utility for Windows to download fonts. Other methods include downloading via

Ethernet, USB, or parallel connections (refer to the *(in PDF on the Software Utilities CD-ROM)* for more information).

If you need assistance, more details can be found at [www.minolta-qms.com/support](http://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 PagePro 9100.

## **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 PagePro 9100, the Kanji fonts are available for use just as if they were resident on the printer.

### **What's in the Kanji font internal IDE hard disk kit?**

- Internal IDE hard disk drive preformatted with the following Kanji fonts:
  - GothicBBB Medium
  - Ryumin Light
- 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 123 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* in PDF on the *Documentation* CD-ROM for information on how to configure your printer's memory when using an internal IDE hard disk drive.

## 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)

You can install one of these interface cards in addition to the standard interfaces—USB, parallel, and Ethernet. 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, but if installing other optional interface cards, you must remove the Ethernet card first to install another NIC.

See the "Notices" section in the *Installation Guide* for FCC compliance classification information.

## What's in the interface 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.

## Installing an Interface or Daughterboard

### 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 100. 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 Remove the controller board.

*Loosen four screws, and pull the controller board from the printer.*

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

*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

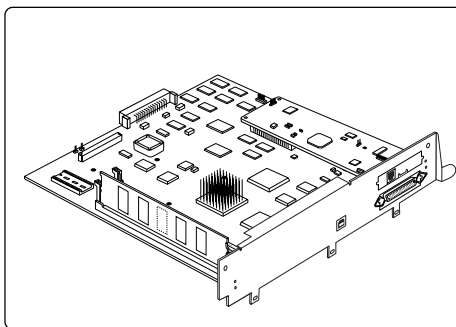
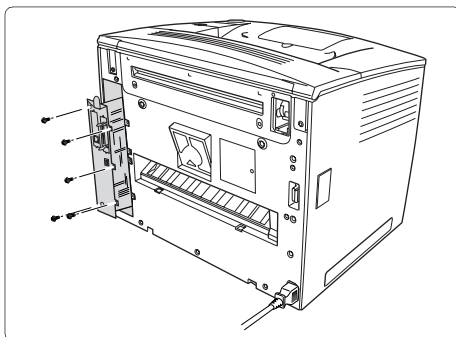
**Make sure that the connectors on the interface card and controller board are properly aligned. Damage to the interface card and/or controller board could result if the pins are misaligned.**

- 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 four screws.*

- 7 Reconnect all interface cables.



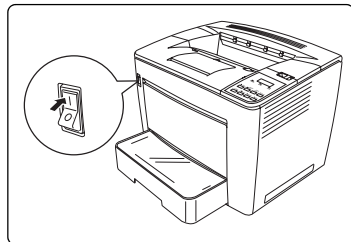
- 8 Reconnect the power cord, and turn on the printer.



*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 "Printer Interfaces."*



## 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 *CrownBook* for information on connecting to the network, installing the software, and configuring the interface and the network.

## SCSI Interface

The optional SCSI interface allows you to connect an optional SCSI devices, 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 (*in PDF on the Software Utilities CD-ROM*).

### What's in the SCSI interface 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

### 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 100. 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.

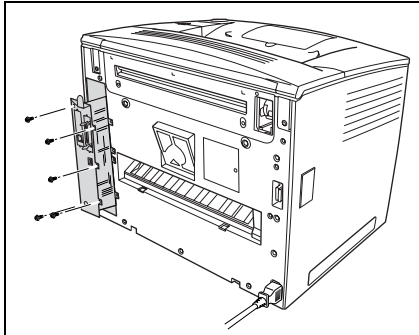
- 2 Remove the controller board.

*Loosen four screws, and pull the controller board from the printer.*

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

- 4 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.*



- 5 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 is fully seated, and then tighten the four screws.*

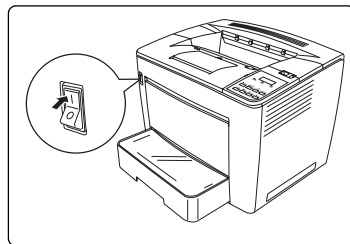


6 Reconnect all interface cables.

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."*

## Internal IDE Hard Disk Drive



### Attention

---

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

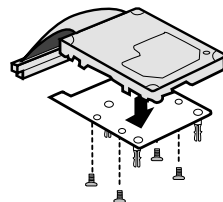
---

One optional internal IDE hard disk is supported.

### What's in the internal IDE hard disk drive kit?

The internal IDE hard disk drive kit includes the following:

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



## Installing an Internal IDE Hard Disk Drive

### 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 108. 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) does 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.

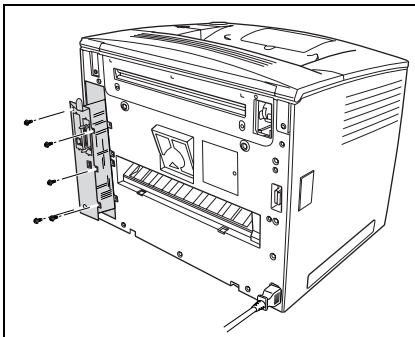
- 1 Turn off the printer, and then disconnect the power cord and all interface cables from the printer.

- 2 Remove the controller board.

*Loosen four screws, and pull the controller board from the printer.*

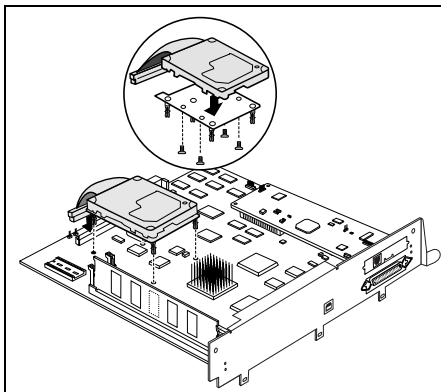
- 3 Position the controller board on a flat surface so it lies flat and the I/O connector panel is facing you.

- 4 Position the controller board on a flat surface so the controller board lies flat and the interface panel is facing you.



- 5 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.*



- 6 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.
- 7 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.**

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

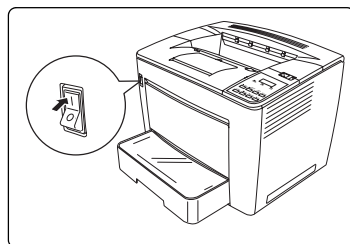
### **! Attention**

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

- 9 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.*
- 10 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 four screws.*
- 11 Reconnect all interface cables.
- 12 Reconnect the power cord and turn on the printer.

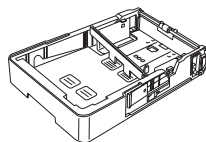


*In compliance with UL guidelines, "The appliance inlet is considered to be the main disconnect device."*



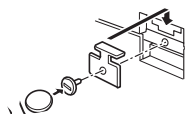
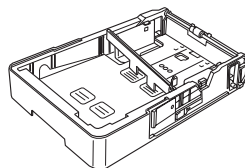
# Optional Media Tray(s)

Each optional media tray increases your printer's media feed capacity by 500 sheets. Up to three LFU units can be added. The LFU is positioned under the printer, so no extra horizontal space is necessary.



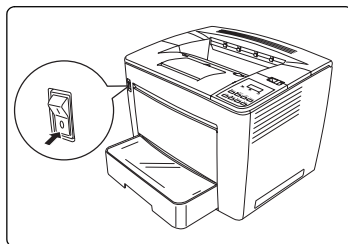
## What's in the optional media tray kit?

- Optional media tray, up to three may be installed (500 sheets each)
- Four screws (for each tray)
- Two brackets (for each tray)



## Installing an Optional Media Tray

- 1 Turn off the printer, and unplug the power supply cord and interface cable.

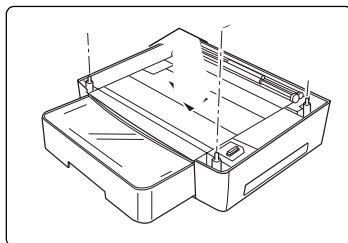


- 2 Remove the optional media tray(s) from the shipping carton, and place it on a table or flat surface near the printer.

- 3 Remove any tape and packing material.

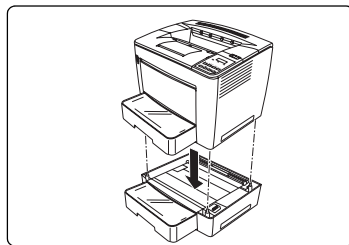


*We **strongly** suggest that you save the packaging materials in case you ever need to move or ship the printer.*



- 4 If multiple 500-sheet media trays are to be installed, stack them on top of each other at the desired setup location for the printer.

- 5 With another person's help, place the printer on top of the stack.



## WARNING!

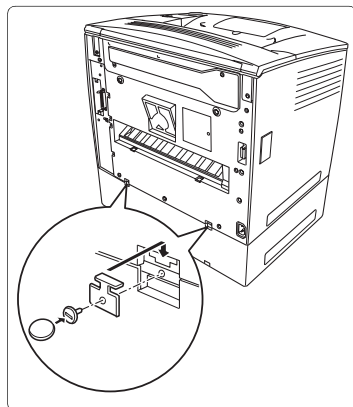
**Your printer weighs approximately 61.7 lbs (28 kg) fully assembled. Be sure to have help when lifting and moving it.**

**ACHTUNG! Das Gewicht dieses Druckers beträgt ohne Verbrauchsmaterial ca. 28 kg. Bitte versuchen Sie niemals, den Drucker alleine anzuheben oder zu transportieren.**

- 6 Align the positioning pins on the media tray with the holes in the bottom of the upper media tray and the printer to stack them correctly.

- 7 Using the mounting parts (four screws and two brackets), secure the printer to the media tray.

- a Using the enclosed screws, attach the enclosed brackets to the two locations on the back of the printer.
- b Tighten the screws.



- 8 Remove the media tray from the upper unit (printer or other 500-sheet media tray), and then secure the two units at the two locations shown using the enclosed screws. (Use a coin to tighten the screws.) After tightening the screws, replace the media tray.

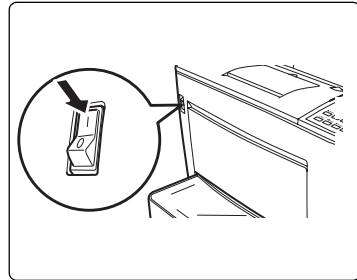
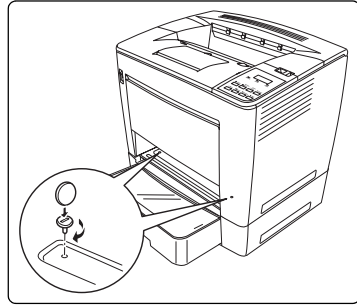
*When installing multiple 500-sheet media trays, secure each using the same procedure.*

- 9 Reconnect all interface cables.

- 10 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."*



## Media Trays

The printer comes with a 200-sheet multipurpose tray (inputbin 1) and a 500-sheet upper media tray (inputbin 2). You may install up to three 500-sheet optional media trays (inputbins 5 through 7). Additional trays may be purchased. The replacement trays provide these 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.

## Time-of-Day Clock

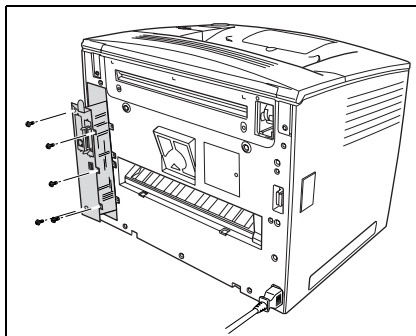
The time-of-day clock provides time and date information on the startup page and in the accounting data.

## Installing a Time-of-Day Clock

### 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 100. 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 four screws and pull the controller board from the printer.



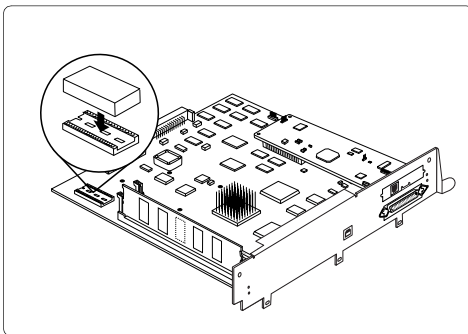
### WARNING!

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.

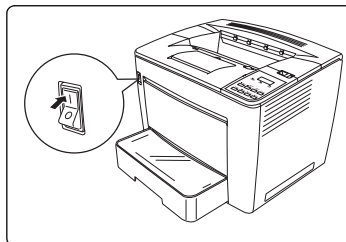
*Gently slide the controller board into the printer's tracks until it is fully seated, and then tighten the four screws.*

- 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."*



- 7 The presence of the clock will be automatically sensed.



## 8 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.*

### **Using the Time-of-Day Clock**

For instructions about setting and using the time-of-day clock, refer to the *CrownBooks in PDF on the Documentation CD-ROM*.



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***Storing,  
Deinstalling,  
Relocating,  
Repacking, and  
Shipping***

---

6

# Introduction

<b>Storing the Printer</b>	
"What do I do when <b>storing</b> the printer for an extended period?"	page 134
"How do I <b>care for media</b> ?"	page 135
<b>Deinstalling Accessories</b>	
"How do I <b>remove a duplexer</b> ?"	page 135
"How do I <b>remove a 4-bin mailbox</b> ?"	page 135
"How do I <b>remove an optional media tray</b> ?"	page 137
<b>Relocating the Printer</b>	
"How do I <b>relocate</b> my printer?"	page 139
<b>Repacking the Printer</b>	
"What's involved in <b>repacking</b> ?"	page 140
<b>Checklist</b>	page 140
<b>Packing</b>	page 141
<b>Strapping and Buckling</b>	page 142
<b>Shipping the Printer</b>	
"How do I <b>ship</b> my printer?"	page 144
"Where can I get more <b>information</b> ?"	page 144

## Attention

Failure to follow instructions as outlined in this chapter could result in voiding your warranty.

## Storing the Printer

### What do I do 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 toner cartridge from the printer and return it to its original packaging. If the original packaging is not available, protect the toner cartridge from light and from spilling toner.
- 4 Remove the media from all media tray(s).

## How do I care for media?

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 moist or wet paper*

*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 against other objects or placed in an upright position

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

## Deinstalling Accessories

### Attention

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**Before transporting the printer, remove the toner cartridge, put the cartridge in its original package or in a plastic bag, and then transport it without subjecting it to strong impacts.**

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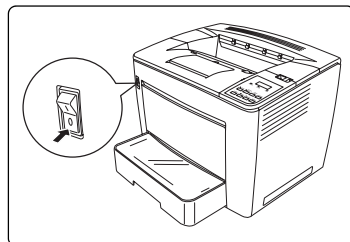
## How do I remove a duplexer?



*If both the optional duplexer and the 4-bin mailbox are to be removed, remove the duplexer first.*

- 1 Turn off the printer, and unplug the power supply cord and interface cable.

*The illustration shows the printer without a 4-bin mailbox. Follow the same instructions if a 4-bin mailbox is installed.*



- 2 Detach the duplexer from the printer.

### **Attention**

**If the duplexer is released too quickly, it may fall and break. Be sure to keep the duplexer supported until the screws are loosened.**

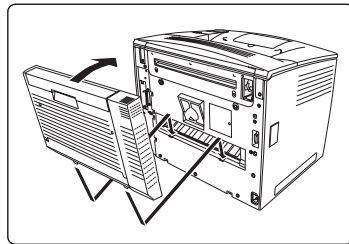
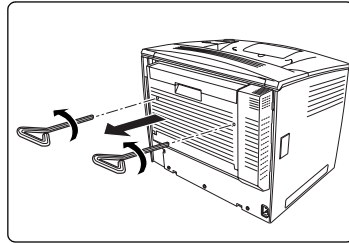
- a** Using the wrench supplied with the duplexer, loosen the two screws on the duplexer.

*The two screws are attached to the duplexer and cannot be removed.*



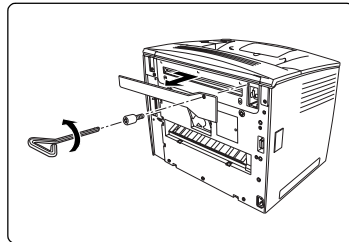
*After using the wrench, keep it in a safe place for future use.*

- b** Unhook the two tabs at the bottom of the duplexer from the notches on the back of the printer.
- c** Store the duplexer in its original packaging.

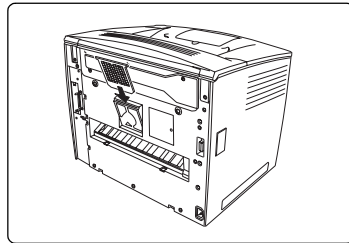


- 4 Replace the cover on the back of the printer.

*Use the wrench supplied with the duplexer to tighten it.*

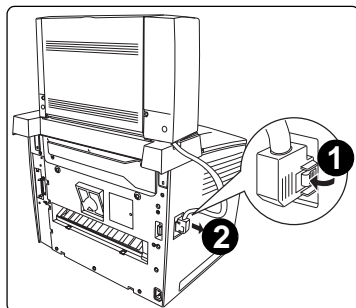


- 5 Replace the exhaust filter.

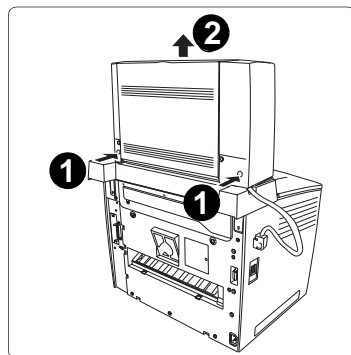


## How do I remove a 4-bin mailbox?

- 1 Turn off the printer.
- 2 Unplug the power supply cord and interface cable.
- 3 Remove the four mailbins (trays) from the 4-bin mailbox.
- 4 Disconnect the 4-bin mailbox cable from the connector on the printer.
  - a Press ①.
  - b Unplug the connector ②.

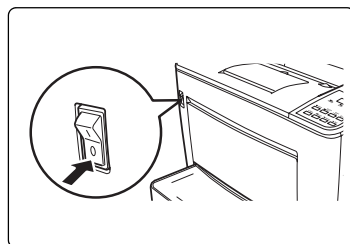


- 3 Press in the two buttons ① (one on each side) at the back of the 4-bin mailbox, and then lift the sorter up off the transport unit ②.
- 4 Remove the two screws securing the transport unit, and then remove the transport unit from the printer.
- 5 Return the stopper to its original position.
- 6 Install the two brackets, the back section of the top cover, and the connector cover, removed during installation of the 4-bin mailbox.
- 7 If you are going to use the printer without the 4-bin mailbox, reconnect the printer's power supply cord and interface cable.

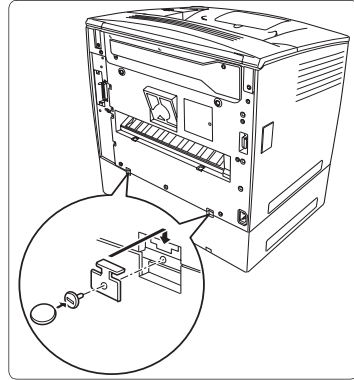


## How do I remove an optional media tray?

- 1 Turn off the printer, and unplug the power supply cord and interface cable.
- 2 Remove the upper media tray.



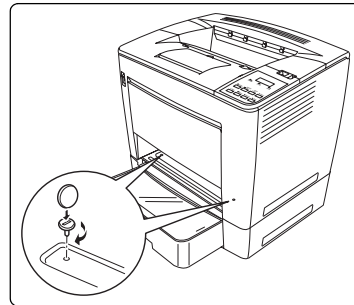
- 3 Detach the mounting brackets from the two locations on the back of the printer.



- 4 Loosen and remove the screws in front. (Use a coin to loosen the screws.)

*When deinstalling multiple optional media trays, remove each using the same procedure.*

- 5 After loosening the screws, lift the printer away from the optional media tray(s).

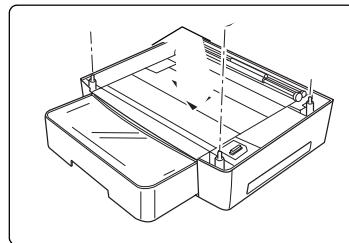


## WARNING!

**Your printer weighs approximately 61.7 lbs (28 kg) without consumables. Be sure to have help when lifting and moving it.**

**ACHTUNG! Das Gewicht dieses Druckers beträgt ohne Verbrauchsmaterial ca. 28 kg. Bitte versuchen Sie niemals, den Drucker alleine anzuheben oder zu transportieren.**

- 6 Replace any tape and packing material.

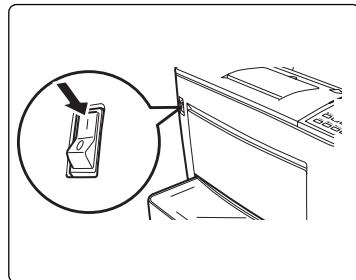




- 7 If you are going to use the printer without the optional media tray(s), reconnect the printer's interface cables.
- 8 Reconnect the power cord, and turn on the printer.



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



## Relocating the Printer

### How do I relocate my printer?

Occasionally, you may have to move your printer to a different location, either nearby or to a distant location.

To avoid damage to your printer, we advise you to follow the next instructions very carefully.

- 1 Turn off the printer.
- 2 If the printer has accessories, such as a 4-bin mailbox, remove them.
- 3 If you are moving to a distant location, follow the instructions for repacking the printer on page 140.
- 4 Relocate the printer.

### **WARNING!**

**Your printer weighs approximately 61.7 lbs (28 kg) without consumables. Be sure to have help when lifting and moving it.**

**ACHTUNG! Das Gewicht dieses Druckers beträgt ohne Verbrauchsmaterial ca. 28 kg. Bitte versuchen Sie niemals, den Drucker alleine anzuheben oder zu transportieren.**

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

# Repacking the Printer

## What's involved in repacking?

- 1 Turn off the printer.
- 2 Unplug the printer's power cords and interface cables.
- 3 Remove the toner cartridge and store it in its original packaging.
- 4 Remove all media.
- 5 Deinstall the duplexer, 4-bin mailbox, and optional media trays (if attached).



*If you're returning the printer for service, you don't need to return the accessories unless instructed to do so.*

- 6 Pack the printer for shipment.

Before packing the printer and strapping it, verify that the actions described in the following list 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 prominently on the outside of the carton.	page 140
	Replacement Packaging Kit part number 2600713-100	Acquired, if necessary	page 138
	Power cord and cables	Removed	page 140
	Toner cartridge	Removed	page 140
	Duplexer	Removed	page 135
	4-bin mailbox	Removed	page 137
	Optional media tray(s)	Removed	page 137
	Printer	Bagged	page 141

## Packing

### Attention

If the printer is not securely strapped or if the RMA number is not *prominently* visible on the outside of the return inventory, MINOLTA-QMS will not accept receipt. With another person's help, put the printer into the plastic bag.

### 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. If you need replacement packaging, in the United States, call MINOLTA-QMS Spares at (251) 633-4300 x2530 and request catalog number 2600713-100. For locations outside the United States, refer to the *Service & Support Guide* or [www.minolta-qms.com](http://www.minolta-qms.com).

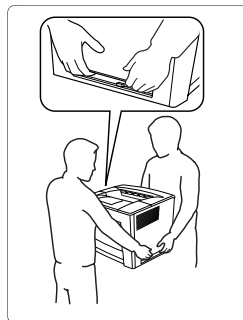




*Do not tilt it more than 1° in any direction at any time.*

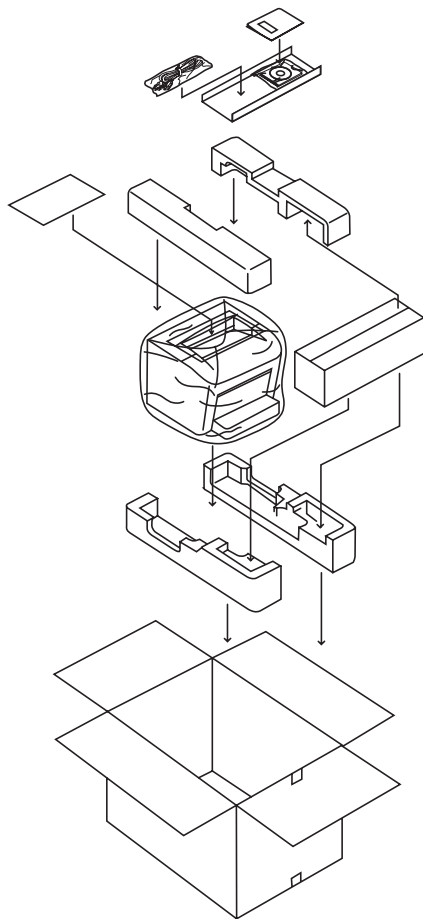
## WARNING!

**Your printer weighs approximately 61.7 lbs (28 kg) without consumables. Be sure to have help when lifting and moving it.**

**ACHTUNG! Das Gewicht dieses Druckers beträgt ohne Verbrauchsmaterial ca. 28 kg. Bitte versuchen Sie niemals, den Drucker alleine anzuheben oder zu transportieren.**



- 7** Pack the printer for shipment as shown in the illustration.
-  *Ensure the shipping carton rests squarely on top of the base tray.*
- 8** 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.*
- 9** Ensure that the top of the carton is securely taped.
- 10** Secure the shipping carton using proper strapping and buckling. Contact your local dealer for strapping and buckling supplies.

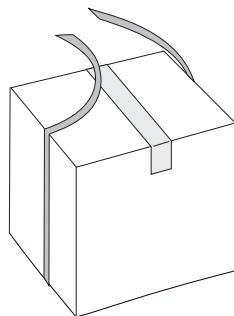


## Strapping and Buckling

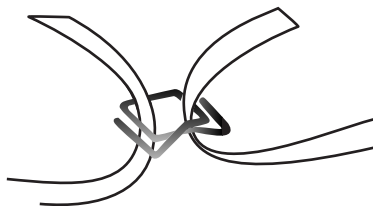
- 2 lengths of strapping precut to the appropriate length
- 2 buckles to secure the strapping



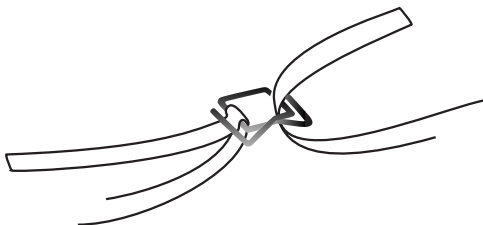
- 1 Thread one end of the strapping beneath the carton.
- 2 Pull the two ends of the strapping together at the top of the carton.



- 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.



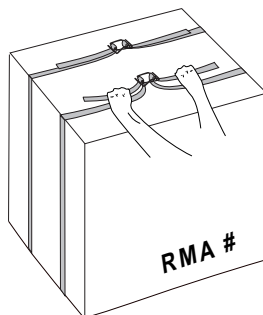
- 6 Weave the slack of the other end through the buckle.

- 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.



## Shipping the Printer

### How do I ship my printer?

If you need to ship your printer after installation, you must follow the procedures in this document to prevent damage to the printer and to keep your warranty valid.



*We **strongly** suggest that you save the packaging materials in case you ever need to move or ship the printer. If you're returning the printer for service, you don't need to return the accessories, documentation, interface cables, media tray(s), power cable, or toner cartridge.*



### Attention

**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 *prominently* 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.**

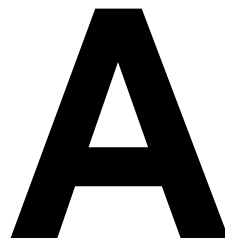
### Where can I get more information?

Refer to the *Service & Support Guide* or [www.minolta-qms.com](http://www.minolta-qms.com) for additional information on where to obtain assistance if necessary.

For information about your printer, go to [www.minolta-qms.com/support](http://www.minolta-qms.com/support), then click on the Answer Base, or contact Technical Support.

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# *Technical Specifications*




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# Requirements

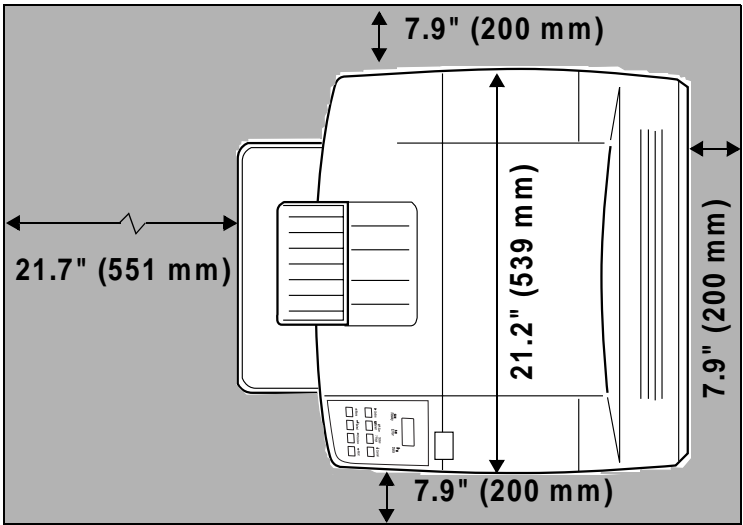
## Space Requirements


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

 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  $\pm 1^\circ$  slant) surface.

### Base Printer

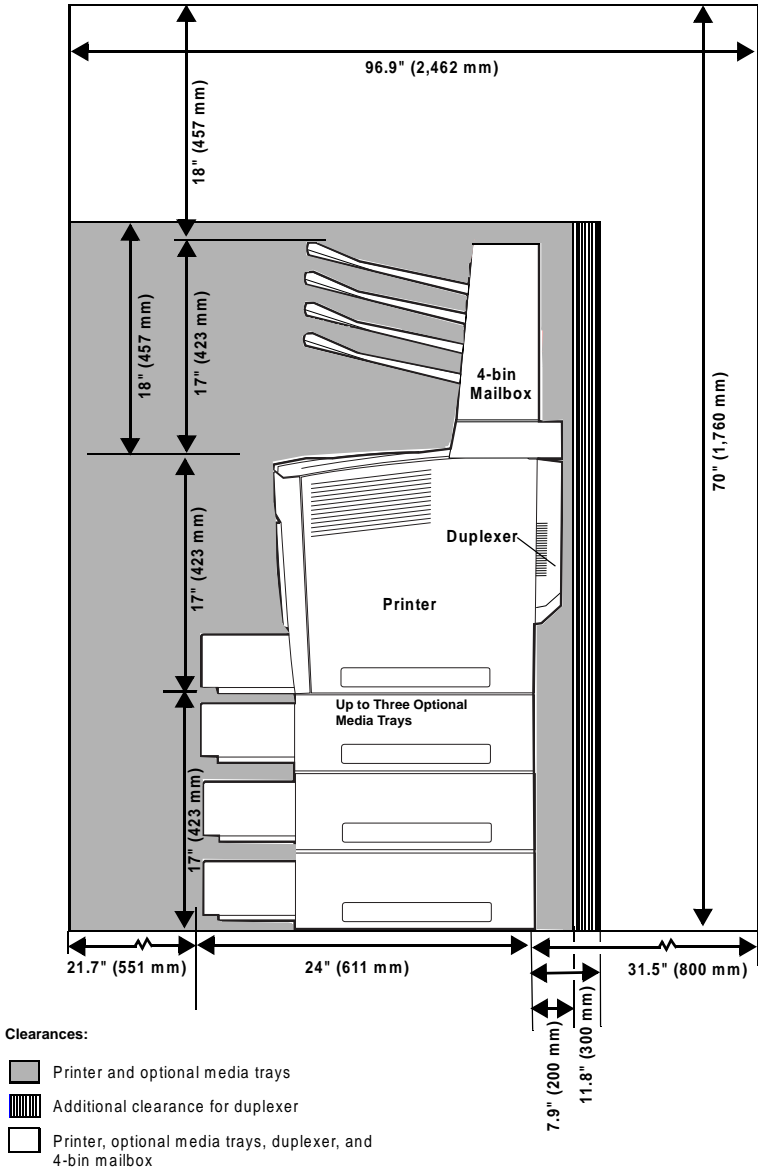
#### Top View



 = Clearance (not shown: 18" [457 mm] on top of printer)



# Printer with Accessories



## Location Requirements

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

Component	Weight
Printer	61.7 lbs (28 kg) or less
Printer with consumables (such as toner), manuals*	69.8 lbs (31.7 kg) or less
Basic system packaged to ship*	83.7 lbs (38.0 kg) or less
Media	5.2 lbs (1.9 kg) per ream of 20 lb bond (75 g/m <sup>2</sup> ) paper
Duplexer	4.50 lbs (2.04 kg)
4-bin mailbox	18.50 lbs (8.39 kg)
Optional media trays*	20.25 lbs (9.2 kg) each (up to three available)
Printer with duplexer, 4-bin mailbox, and all three optional media trays*	153.5 lbs (69.6 kg)
<b>Notes:</b> *Without media.	

With these characteristics...	But away from...
On a hard, flat, stable, level ( $\pm 1^\circ$ 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.
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.

With these characteristics...	But away from...
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.*

- 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."*

<b>Power</b>	<b>Japan</b>	100 VAC 50/60 Hz 8 amps
	<b>North America</b>	120 VAC 60 Hz 8 amps
	<b>Europe</b>	230–240 VAC 50/60 Hz 4 amps
	<b>Latin America</b>	120 VAC 60 Hz 8 amps 230 VAC 50/60 Hz 4 amps
	<b>Notes:</b> Amperage capacity at least 1.2 times that used by the printer.	
<b>Voltage Fluctuation Rate and Rated Line Voltage</b>	<b>Japan</b>	100 VAC $\pm 10\%$
	<b>North America</b>	120 VAC $\pm 10\%$
	<b>Europe</b>	220–240 VAC $\pm 10\%$
	<b>Latin America</b>	120 VAC $\pm 10\%$ 220–240 VAC $\pm 10\%$
	<b>Notes:</b> 10% of the rated line voltage for proper operation.	
<b>Frequency Variation Rate</b>	Within 50–60 $\pm 3$ Hz	
<b>Fused</b>	For at least 15 amperes (8 amperes for 240 V).	
<b>Printer</b>	Draws 8 A at 100 V, 110 V, or 120 V; or 4 A at 220 V or 240 V.	
<b>Maximum Electrical Current</b>	Required during operation is 8 amps for a 100 V or a 120 V system and 4 amps for a 220–240 V system.	
<b>Noise-generating Equipment</b>	Should not be connected to the same electrical outlet as the printer.	
<b>Grounding</b>	Your printer requires a properly grounded AC outlet.	

## ENERGY STAR Compliance

The PagePro 9100 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.



# Engine and Controller Specifications

## Print Speed

<div>Print Type</div> <div>Media Size</div>	Simplex			Duplex			
	RAM*		Speed	Feed	RAM*		Speed
	600 dpi	1200 dpi			600 dpi	1200 dpi	
A3	64 MB	96 MB	19.5 ppm	SEF	64 MB	96 MB	13 ipm
A4		64 MB	35 ppm	LEF			26 ipm
B4		96 MB	19.1 ppm	SEF			13 ipm
Ledger		96 MB	19 ppm	SEF			26 ipm
Legal		64 MB	17 ppm	SEF			13 ipm
Letter		64 MB	35 ppm	LEF			26 ipm
Notes	<div>dpi = dots per inch; ppm = pages per minute; ipm = images per minute; SEF = Short Edge Feed; LEF = Long Edge Feed.</div> <div>Duplexing is supported only up to 28 lb (105 g/m<sup>2</sup>) bond. Duplexing envelopes, Japanese postcards, labels, thick stock, and transparencies is not supported</div>						

## Engine

Engine	Minolta NC-A611
Standard average duty cycle	150,000 simplex letter/A4 sheets maximum per month The duty cycle is affected by the media type and percent coverage.
Printer type	Desktop, non-impact, monochrome printer
Print method	<b>Scanner:</b> Semiconductor laser with rotating mirror <b>Recorder:</b> Black writing electrophotographic <b>Process:</b> Black toner image transfer to print media <b>Fuser:</b> Heated rollers


<b>Resolution</b>	600 x 600 dpi You may also need additional memory (DIMMs) for the following: <ul style="list-style-type: none"> <li>■ To print at maximum performance</li> <li>■ To print complex graphics or complex PostScript documents</li> <li>■ For increased collation performance</li> <li>■ For increased spooling performance</li> </ul>
<b>Toner</b>	<b>Type:</b> Chemical-type <b>Packaging:</b> User-replaceable toner cartridges Toner cartridges are available from your local vendor or from <a href="http://www.q-shop.com">www.q-shop.com</a> . See the <i>Service &amp; Support Guide</i> or <a href="http://www.minolta-qms.com">www.minolta-qms.com</a> for information.
<b>Warm-up time</b>	<b>Typical:</b> 70 seconds from power on, assuming normal temperature and humidity.
<b>Input sources</b>	<b>Upper:</b> 200-sheet multipurpose tray 500-sheet upper tray <b>Optional:</b> Up to three 500-sheet optional trays may be added
<b>Output</b>	500-sheet output tray on top of printer 50-sheet optional 4-bin mailbox
<b>Media sizes and weights</b>	See “Using Media” on page 23.
<b>Media type</b>	Cut-sheet
<b>Notes</b>	The maximum media weight supported for duplex printing is 24 lb bond (90 g/m <sup>2</sup> ).

## Controller

<b>CPU</b>	IDT RC64474, operating at 200 MHz
<b>Resident emulations</b>	<p><b>HP PCL</b>—PCL XL/5e/5c, PCL6, PCL5e/GL2 (HP PaintJet XL300 compatible; 300/600 dpi; 300/600/1200 dpi, GL2 only)</p> <p><b>HP-GL</b>—7475A/7550/Draftmaster (300/600 dpi)</p> <p><b>Lineprinter</b>—(600 dpi)</p> <p><b>PDF</b>—Version 1.3 (Direct PDF Printing)</p> <p><b>PostScript</b>—Level 3 (600/1200 dpi)</p> <p><b>Press Emulations</b></p>
<b>Optional emulations</b>	<p><b>CGM</b></p> <p><b>ImageServer</b></p> <p><b>QForm</b></p> <p><b>QUIC II</b></p>
<b>Fonts</b>	<p>PostScript—252 resident PostScript fonts that can be scaled from 4 points upward and rotated to any angle in 1° increments; all typefaces have multi-lingual character sets</p> <p>HP PCL 5e, 5c—45 scalable and 9 bitmap fonts</p> <p>PCL XL—45 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>
<b>Optional Kanji fonts</b>	<b>Hard disk</b> —MINOLTA-QMS Kanji Internal IDE Hard Disk Drive with two Morisawa fonts
<b>Standard interfaces</b>	<p><b>CrownNet Ethernet</b>—10BaseT/100BaseTX</p> <p><b>Parallel</b>—Centronics/IEEE 1284 bidirectional</p> <p><b>USB</b>—USB Type B connector</p>





<b>Optional interfaces</b>	<p><b>Network interface</b>—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)</p> <p><b>SCSI interface</b>—Support for one external SCSI hard disk (up to 2 GB), Jaz drive, or Zip drive</p>
<b>RAM</b>	<p><b>Type:</b> PC-100 Compliant SDRAM DIMMs</p> <p><b>Base system RAM:</b> 64 MB</p> <p><b>Total RAM:</b> Upgradable to 512 MB (through 2 DIMM connectors)</p>
<b>Optional RAM</b>	<p>32, 64, 128, and 256 MB DIMMs</p> <p>Additional memory must be 32, 64, 128, or 256 MB PC-100 Compliant SDRAM DIMMs, up to a maximum of 512 MB.</p> <p><i>For information about DIMMs recommended for your printer, see the PagePro 9100 Answer Base through the Internet at <a href="http://www.minolta-qms.com/support/">www.minolta-qms.com/support/</a>, or contact Support. See the Service &amp; Support Guide for more information.</i></p>
<b>System software</b>	Softloadable; stored in Flash ROM
<b>Optional internal IDE hard disk</b>	<p>Up to 2.2 GB</p> <p> <i>For information about hard disks recommended for your printer, see the PagePro 9100 Answer Base through the Internet at <a href="http://www.minolta-qms.com/support/">www.minolta-qms.com/support/</a>, or contact Support. See the Service &amp; Support Guide for more information.</i></p>
<b>Time-of-day clock</b>	Optional
<b>Job accounting</b>	Crown job accounting; requires an optional internal IDE hard disk drive
<b>Warning function convenience</b>	Optional, BuzzBox (light/buzzer printer warning device); operates over a parallel connection

# Electrical

## Voltage and Power

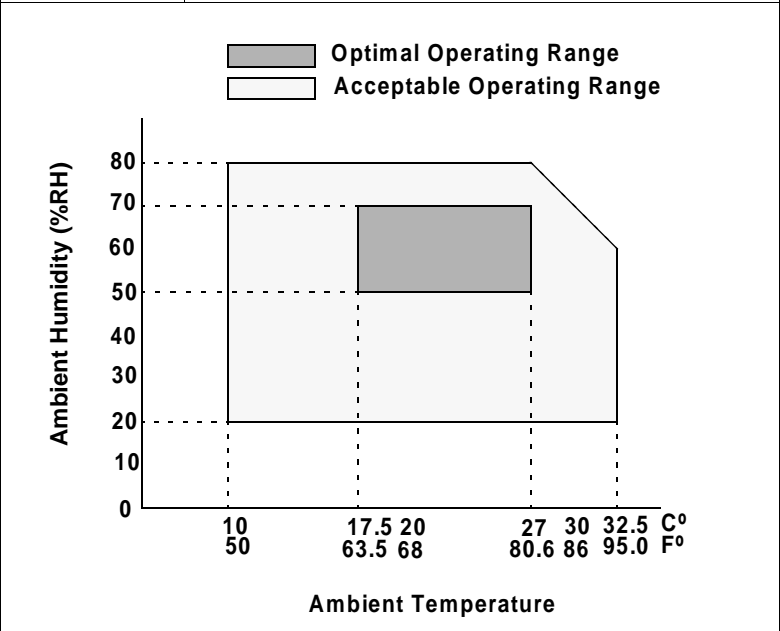
<b>Voltage and frequency</b>	<b>US:</b> 120 volts $\pm 10\%$ at 60 Hz $\pm 2$ Hz <b>Japan:</b> 100 volts $\pm 10\%$ at 50/60 Hz $\pm 2$ Hz <b>International:</b> 220-240 volts $+6/-10\%$ at 50 Hz $\pm 2$ Hz		
<b>Phase</b>	Single		
<b>Power consumption</b>	<b>Mode</b>	<b>Average</b>	<b>Maximum</b>
	<b>Operation</b> <b>Standby</b> <b>Power saver</b>	450 watts 180 watts	850 watts 850 watts 45 watts
<b>Certification</b>	ENERGY STAR compliant		

## Current

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

## Environmental

<b>Acoustic noise data by ISO 7779</b>	57 dB(A) max. (printing) 38 dB(A) max. (stand-by)
<b>Noise Declaration for Germany</b>	Maschinenlärminformationsverordnung 3. FSGV, 18.01.1991: Der höchste Schalldruckpegel beträgt 70 dB (A) oder weniger gemäß EN 27779.
<b>Relative humidity</b>	<b>Operating:</b> 20-80% RH (without condensation) <b>Transportation/Storage:</b> 10–90% RH (without condensation)
<b>Temperature range</b>	<b>Operating:</b> 50-90.5° F (10-32.5° C) <b>Transportation/Storage:</b> 32-95° F (0-35° C)
<b>Altitude</b>	<b>Operating:</b> 0-8202 ft (0-2500 m)
<b>Inclination</b>	<b>Operating:</b> ±1° or less slant at any point around the machine



# Physical

	Main Body	Duplexer	Optional Media Tray (per Tray—up to Three Total Available)	4-bin Mailbox
<b>Dimensions</b>	<b>W:</b> 21.22 in. (539 mm)  <b>H:</b> 16.65 in., (423 mm)  <b>D:</b> 17.64 in., (448 mm)	<b>W:</b> 3.94 in. (100 mm)  <b>H:</b> 11.02 in. (280 mm)  <b>D:</b> 16.34 in. (415 mm)	<b>W:</b> 20.16 in. (512 mm)  <b>H:</b> 5.28 in. (134 mm)  <b>D:</b> 21.69 in. (551 mm)	<b>W:</b> 18.31 in. (465 mm)  <b>H:</b> 11.22 in. (285 mm)  <b>D:</b> 15.55 in. (395 mm)
<b>Weight (without consumables)</b>	<b>Unpacked:</b> 61.7 lbs (28 kg)  <b>Packed for shipment:</b> 82.7 lbs (37.5 kg)	4.50 lbs (2.04 kg)	20.25 lbs (9.19 kg) each (up to three available)	18.50 lbs (8.39 kg)
<b>Weight</b>	<b>(with consumables, duplexer, three optional media trays, 4-bin mailbox, manuals, but not media)</b>  151 lbs (68.49 kg)			
<b>Media</b>	5.2 lbs (1.9 kg) per ream of 20 lb bond (75 g/m <sup>2</sup> ) paper			

# 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.

Item	Average Life Expectancy (in Simplex Pages)	Comment
<b>Fuser</b>	300,000 intermittent printing (for example, one-page jobs)  500,000 continuous printing (average four-page jobs)	The fuser must be replaced by a MINOLTA-QMS-authorized service provider. Refer to the <i>Service &amp; Support Guide</i> or <a href="http://www.minolta-qms.com">www.minolta-qms.com</a> for further information.
<b>Media Pickup Roller—Multi-purpose Tray</b>	Approximately 150,000 and each time you have the fuser replaced	User replaces after fuser replaced (more frequently if the media is not being picked properly), and after every 150,000 pages. See “Multipurpose Tray Pickup Roller” on page 16.
<b>Paper Separation Roller—Media Tray(s)</b>	Approximately 200,000 and each time you have the fuser replaced	User replaces after fuser replaced (more frequently if the media is not being picked properly), and after every 200,000 pages. See “Paper Separation Roller” on page 14.
<b>Toner Cartridge and Exhaust Filter</b>	<b>Starter Cartridge</b> = 6,000 <b>Replacement Cartridge</b> = 15,000 continuous printing or 12,000 intermittent printing. (REPLACE TONER CARTRIDGE displays in the message window)	Replace the toner cartridge and the exhaust filter (if you don't have a duplexer installed) at the same time. See “How do I replace and recycle the toner cartridge?” on page 9.
<b>Transfer Roller</b>	Approximately 150,000	See “How do I replace the transfer roller?” on page 20.
<b>Notes</b>	<p>A <b>face</b> is a single <b>pass</b> of media past the OPC. A <b>two-sided</b> (duplex) page (also called a <b>sheet</b>) consists of two passes.</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).</p> <p>The numbers on the startup page refer to number of sheets/faces printed during the lifetime of the printer. 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](http://www.q-shop.com) or check [www.minolta-qms.com](http://www.minolta-qms.com) or the *Service & Support Guide* for the MINOLTA-QMS office closest to you.

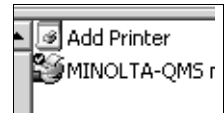
## What is IPP?

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 PagePro 9100, 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 in PDF on the Documentation CD-ROM.*

- 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\wppnpins.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 PagePro 9100. 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:

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

## CALS Commands (Optional Emulation Required)

Automatic rotation of image	%%IncludeFeature: autorotation
Automatic scaling of image	%%IncludeFeature: autoscaling

## TIFF Commands (Optional Emulation Required)

Automatic rotation of image	%%IncludeFeature: autorotation
Up or down scaling of image	%%IncludeFeature: autoscaling
Automatic selection of paper size	%%IncludeFeature: sheetsel

Annotation  
Reverse image control  
Control disk scratchfile size  
Set annotation tag number

%%IncludeFeature: annotation  
%%IncludeFeature: reverse  
%%IncludeFeature: scratchfile  
%%IncludeFeature: tag

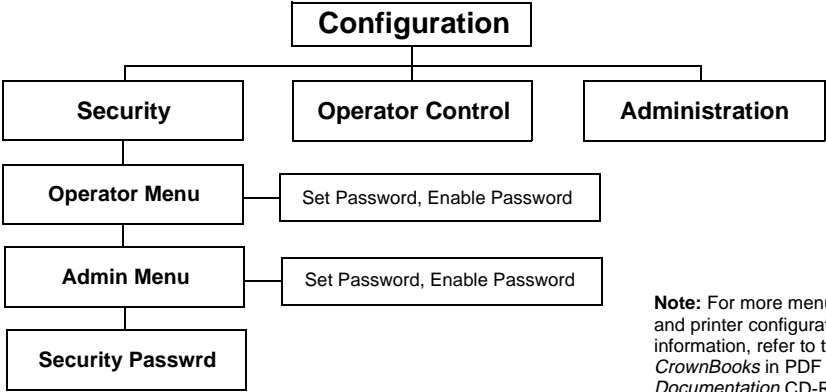
# Menus

## Configuration Chart Conventions

The following conventions are used in the menu charts:

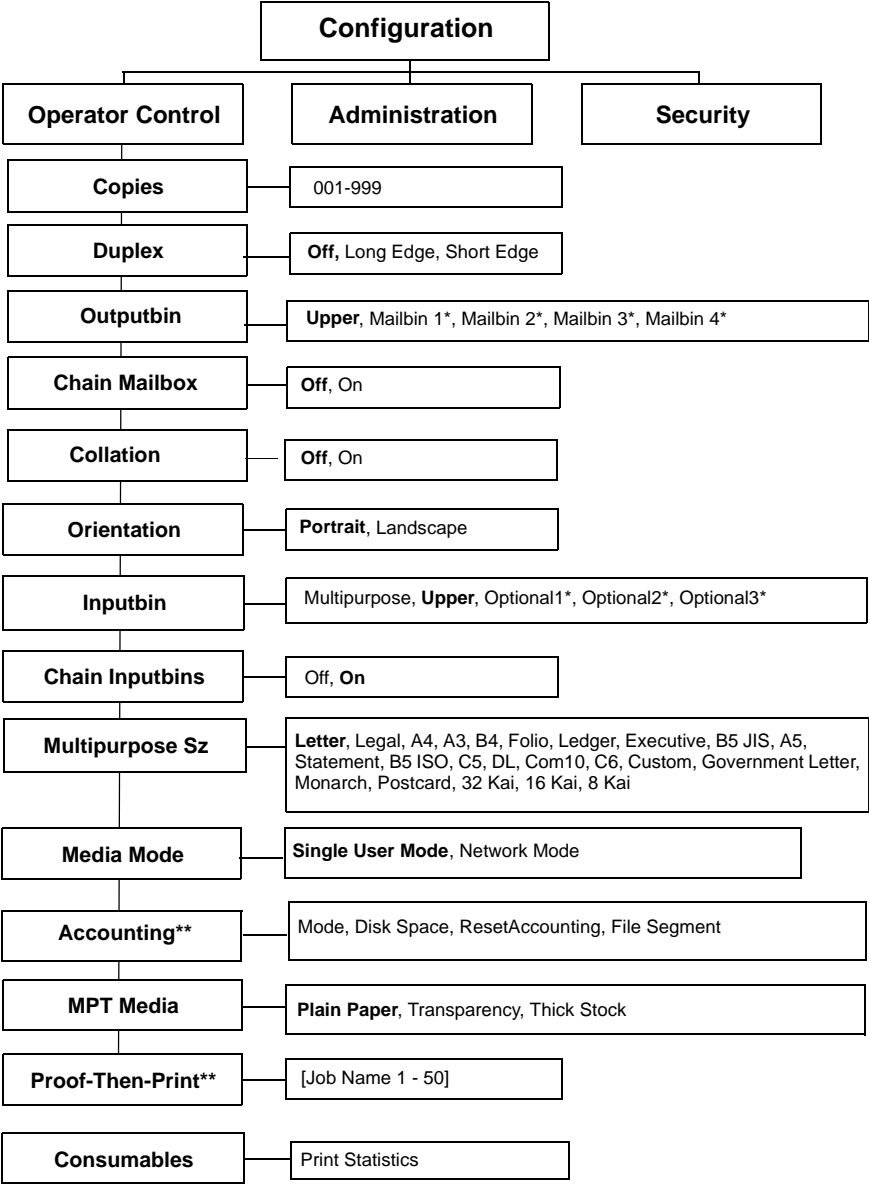
- Some menu choices are marked as optional, indicating that the selection appears in the menu only when the option is installed.
- These charts show only the top-level menus. See the *CrownBooks* in PDF on the *Documentation* CD-ROM for detailed information on menu options.

## Security Menu



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

# Operator Control Menu



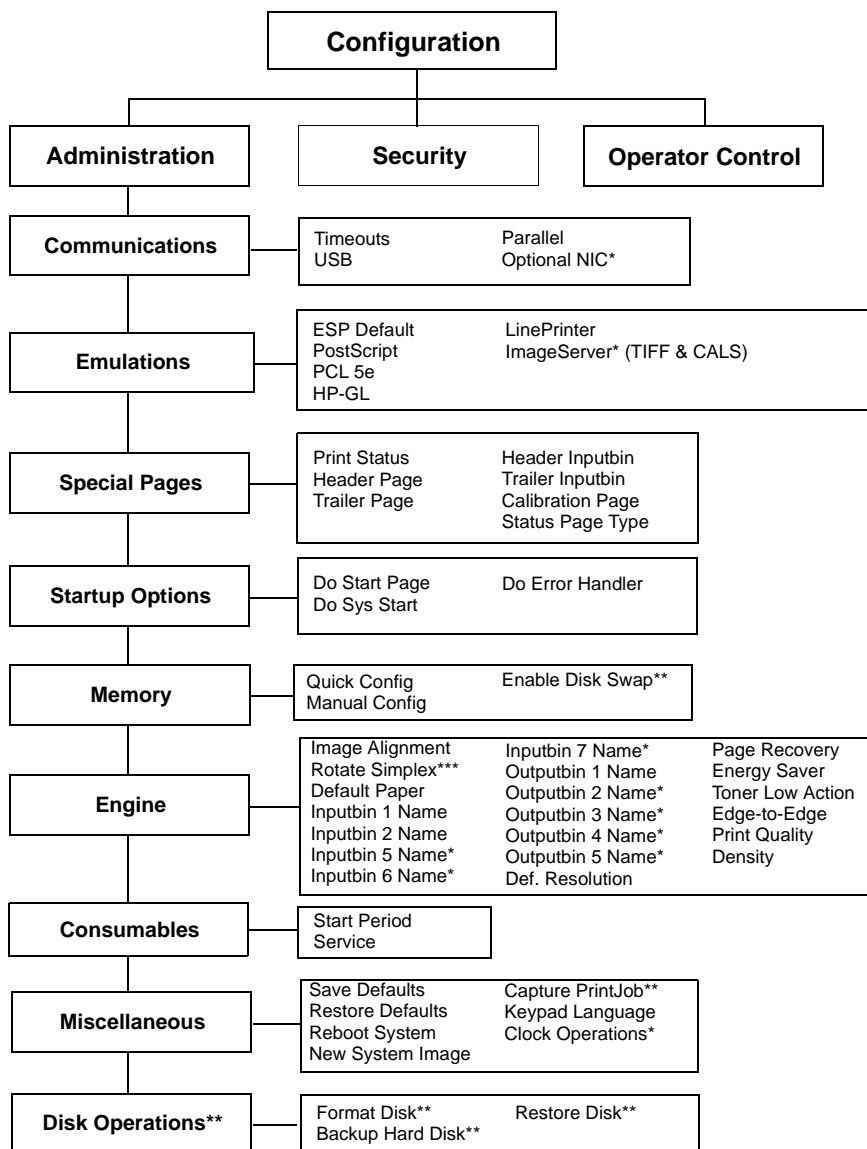
\*Only with an optional media tray(s) installed

\*\*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 *Documentation* CD-ROM.

# Administration Menu



\* Optional

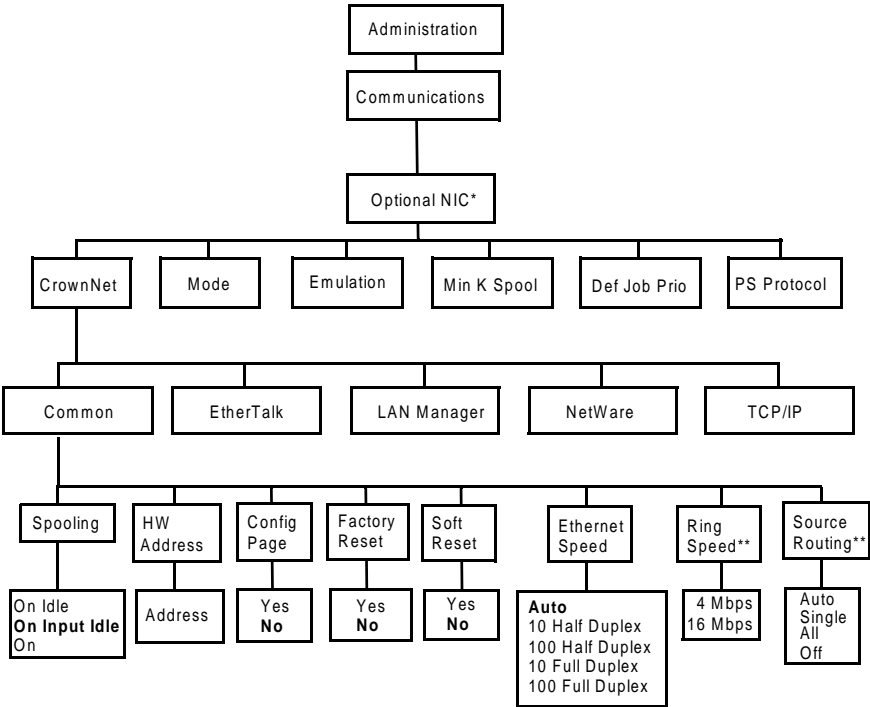
\*\* Only with an optional hard disk installed

\*\*\*Only with an optional duplexer installed

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

# Administration/Communications/Optional NIC/ CrownNet Menu

## Common Menu



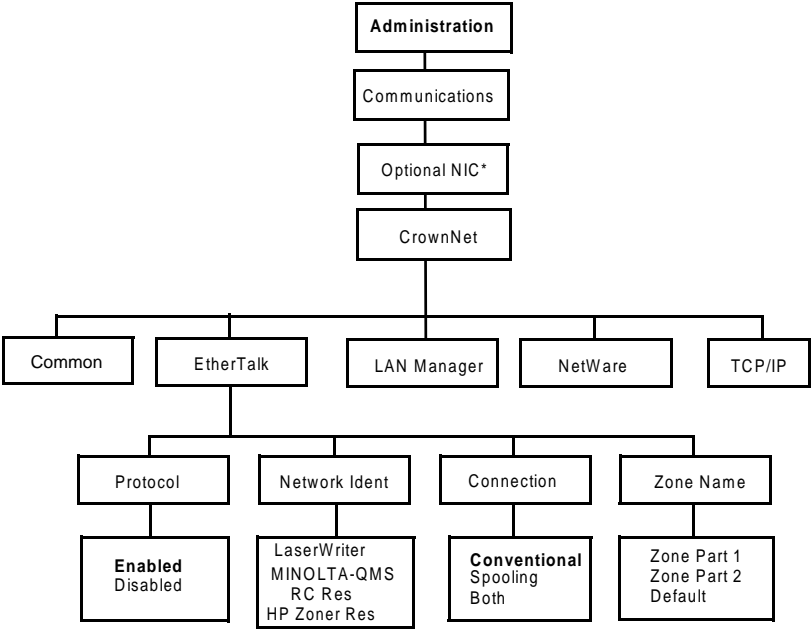
\*Optional

\*\*Token-Ring only

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



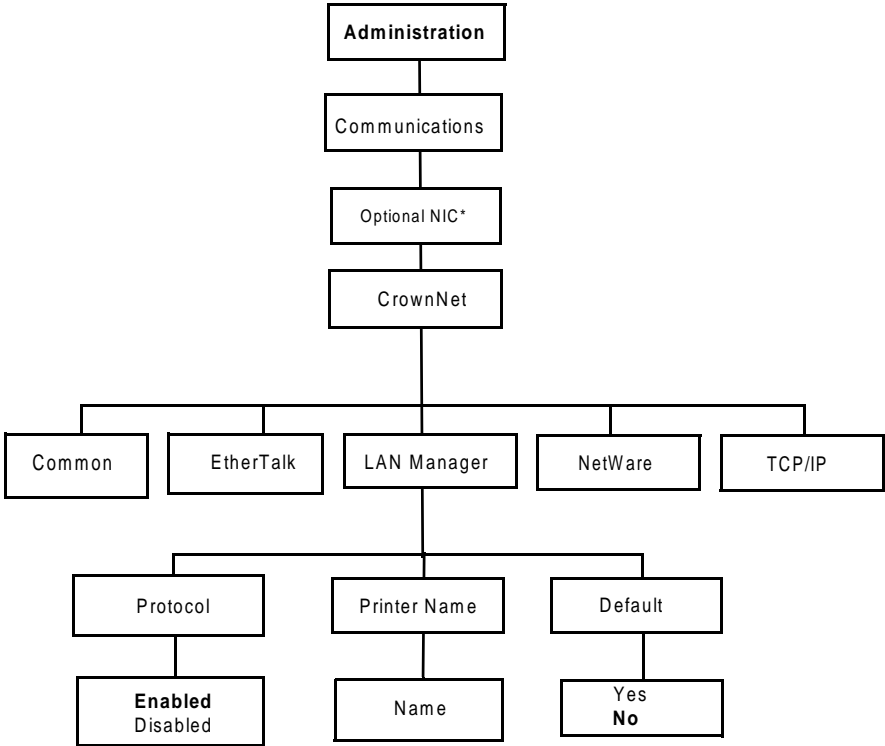
# EtherTalk Menu



\*Optional

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

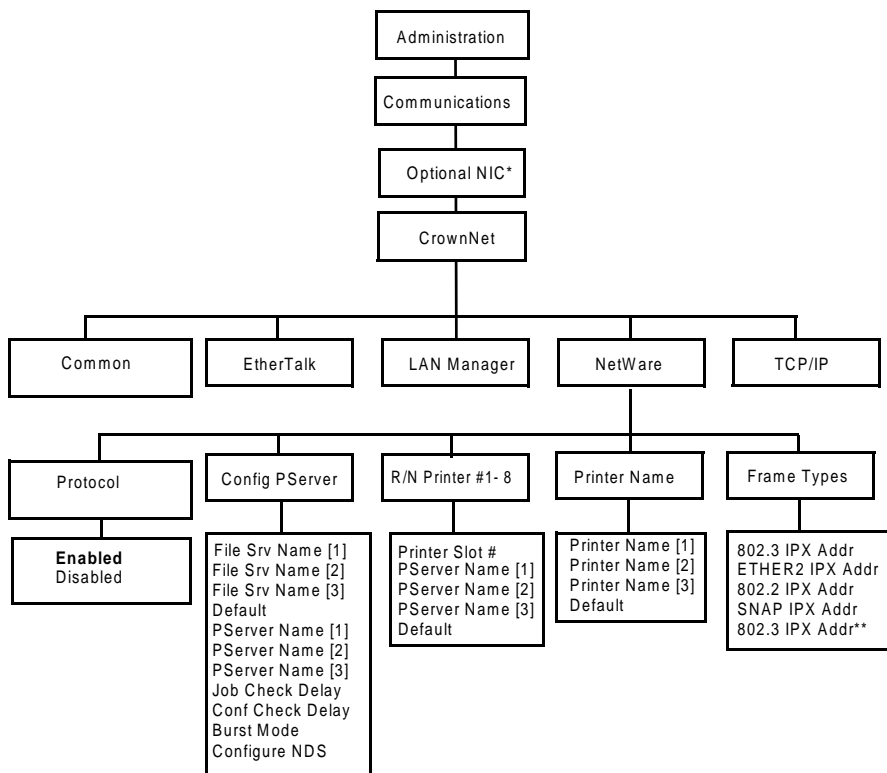
# LAN Manager Menu



\*Optional

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

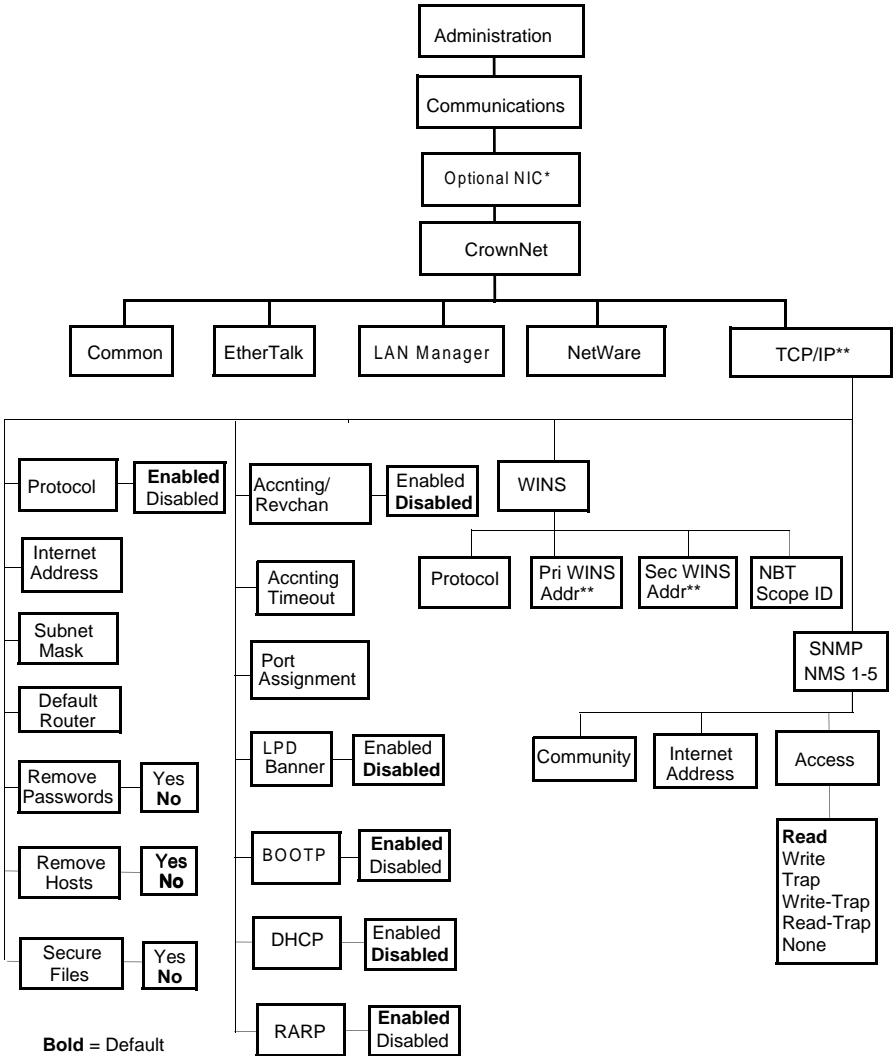
# NetWare Menu



\*Optional  
\*\*Token-Ring only

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

## Warranty Considerations

Various factors can affect a printer's warranty, such as electrostatic damage, unsupported consumables, and other actions listed on the following page. Read your printer warranty carefully. Information about your warranty is posted on the web site at <http://www.qms.com/service/warranty/index.html>.

If MINOLTA-QMS printer failure or damage is found to be directly attributable to the use of non-MINOLTA-QMS approved consumables, print media, 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.

These Actions Will Result in Voiding Your Warranty	
Print Media	Use of nonsupported such as coated color transparencies (OHP) or inkjet paper.  See chapter 2, "Using Media," in the <i>User's Guide</i> . Check <a href="http://www.minolta-qms.com">www.minolta-qms.com</a> for current approved media.  To order approved transparency media, go to <a href="http://www.q-shop.com">www.q-shop.com</a> .
Electrostatic Discharge	Failure to protect the printer controller board and any associated daughterboard or module from electrostatic discharge or damage while performing any task involving the controller board.
Instructions	Failure to follow instructions in the printer documentation.
Modifications	Any modifications or changes to this product not expressly approved in writing by the manufacturer responsible for compliance to Federal Regulations could void your authority to operate this product within the Laws and Regulations of the Federal Communications Commission.
Consumables	Use of consumables not manufactured or supported by MINOLTA-QMS. Any damage to the printer or quality problems caused by a refilled toner cartridge use.
Toner Cartridge	Any damage resulting from mishandling the toner cartridge (including its OPC) or the transfer roller.
Accessories	Use of accessories not manufactured/supported by MINOLTA-QMS.

## **Attention**

---

Don't return any merchandise to the manufacturer without calling for a Return Merchandise Authorization (RMA) number. Refer to the *Service & Support Guide* for the Support telephone number where you can obtain an RMA number. If the RMA number is not *prominently* visible on the outside carton of items returned, MINOLTA-QMS will not accept receipt.

---

# 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

PagePro 9100

(base product family name)

PagePro 9100

(model number located on dataplate)

4128

(print engine model/type number)

to which this declaration relates is in conformity with the following

EN 60950:2000:

CB scheme in accordance with IEC 60950:1991+A1+A2+A3+A4:

CB Certificate number JPTUV-003718:

IEC 60825-1:1993+A1:

EN 55022:1994:1995+A1:1997+A2 Class A ITE:

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

IEC 61000-4-2:1995:

IEC 61000-4-3:1995:

IEC 61000-4-4:1995:

IEC 61000-4-5:1995:

IEC 61000-4-6:1995:

IEC 61000-4-8:1993:

IEC 61000-4-11:1994:

(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—January, 2002

(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

PagePro 9100

(base product family name)

PagePro 9100

(model number located on dataplate)

4128

(print engine model/type number)

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

UL 60950 Third Edition:CAN/CSA C22.2 No. 60950-00

FCC Class A Digital Device Title 47 CFR Ch. I., Part 15:

Industry Canada ICES-003 Issue 3 Class A Digital Device:

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—January 2002

(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

PagePro 9100

(base product family name)

PagePro 9100

(model number located on dataplate)

4128

(print engine model/type number)

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

EN 60950:2000;

CB scheme in accordance with IEC 60950:1991+A1+A2+A3+A4;

CB Certificate number JPTUV-003718;

IEC 60825-1:1993+A1;

EN 55022:1994:1995+A1:1997+A2 Class A ITE;

EN 61000-3-2:1995:1998+A1+A2;

IEC 61000-4-2:1995;

IEC 61000-4-3:1995;

IEC 61000-4-4:1995;

IEC 61000-4-5:1995;

IEC 61000-4-6:1995;

IEC 61000-4-8:1993;

IEC 61000-4-11:1994;

(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).

Mobile, Alabama, USA—January 2002

(place and date of issue)



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