



QMS[®] magicolor[®] 2 Print System Getting Started

1800481-001B

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1

Introduction

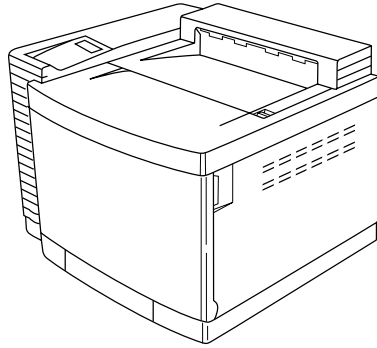
In This Chapter . . .

- “About the Printer” on page 1-2
- “About the Documentation” on page 1-3
- “What’s Next?” on page 1-10

About the Printer

The QMS *magicolor 2* Print System comes in two models: CX and EX.

An optional 250-sheet lower input feeder is available for either model.







QMS <i>magicolor 2</i> CX Print System	QMS <i>magicolor 2</i> EX Print System
<ul style="list-style-type: none">■ 24 MB RAM (upgradable to 384 MB)■ 300x300 and 600x600 dpi resolutions; upgradable to 1200x600 dpi or 2400x600 dpi■ Flash ROM to hold system software	<ul style="list-style-type: none">■ 80 MB RAM (upgradable to 384 MB)■ 300x300, 600x600, 1200x600, and 2400x600 dpi resolutions■ Hard disk to hold system software■ Time-of-day clock
<ul style="list-style-type: none">■ 16 ppm (pages-per minute) monochrome/4 ppm color print speed (letter/A4 paper; 600x600 dpi)■ 250-sheet letter/A4 media cassette■ PostScript Level 2, HP PCL 5c, HP-GL, and Line printer emulations■ Centronics/IEEE 1284 parallel, RS-232C serial, and QMS CrownNet Ethernet (EtherTalk, LAN Manager/LAN Server, NetWare, TCP/IP) interfaces■ Energy Star compliant	






About the Documentation

The documentation provides a window into the many capabilities of your printer. The more familiar you are with the documentation, the easier it'll be for you to achieve the results you want from your printer. This section gives you an idea of how we've organized information and which documents you'll probably refer to the most.

Standard Product Documentation

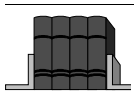
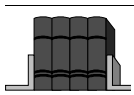
 <p>QMS magicolor 2 Print System Getting Started</p>	<p>You're looking at this document right now. It introduces the printer and documentation; provides instructions on getting the printer set up and running; and explains the control panel.</p> <p>» Note: <i>This manual is also in Adobe Acrobat PDF format on the magicolor 2 CD-ROM.</i></p>
 <p>QMS magicolor 2 Print System Operation</p> <p><i>magicolor 2</i> CD-ROM (Adobe Acrobat PDF format)</p>	<p>This manual guides you through the day-to-day operation of your printer. It includes information on printing files; adding print media, and replacing toner. It also includes information on handling, cleaning, and maintaining your printer; improving print quality; and troubleshooting printer problems.</p>
 <p>QMS magicolor 2 Print System Options</p> <p><i>magicolor 2</i> CD-ROM (Adobe Acrobat PDF format)</p>	<p>Refer to this manual for information on installing and using printer options: emulations, security key, memory upgrades, fonts, interfaces, CrownCopy, hard disks, and system software updates.</p>
 <p>QMS magicolor 2 Print System Reference</p> <p><i>magicolor 2</i> CD-ROM (Adobe Acrobat PDF format)</p>	<p>Refer to this manual when you need to change your printer's configuration. It also provides information on typefaces and fonts, job accounting, printer memory, and other advanced printer features. The system administrator should get the most use from this manual.</p>

About the Documentation

 <p>Software Utilities CD-ROM</p>	<p>QMS Crown Remote Console User's Guide</p> <p>(Adobe Acrobat PDF format)</p>	<p>This manual describes how to use the Remote Console software to access printer information and change printer configuration settings from anywhere on the network.</p>
 <p>Software Utilities CD-ROM</p>	<p>QMS Crown Network Notes</p> <p>(PostScript format)</p>	<p>Refer to this document for network tips. It discusses 3Com 3+Open, Banyan VINES, LAN Manager-based LANs, Novell NetWare, TCP/IP, UNIX, DECnet, and VMS. In most cases, only advanced network users and system administrators need this information.</p>
 <p>Software Utilities CD-ROM</p>	<p>QMS CrownNet Setup Guide</p> <p>(Adobe Acrobat PDF format)</p>	<p>Refer to this manual for complete setup information on the QMS CrownNet Ethernet and QMS CrownNet Token-Ring interfaces.</p>
 <p>Software Utilities CD-ROM</p>	<p>QMS CrownNet System Administrator's Guide</p> <p>(Adobe Acrobat PDF format)</p>	<p>Refer to this manual when configuring the printer's QMS CrownNet Ethernet or optional QMS CrownNet Token-Ring interface and when using the QMS CrownAdmin 3 software.</p>
 <p>Software Utilities CD-ROM</p>	<p>QMS Crown Document Option Commands</p> <p>(Adobe Acrobat PDF format)</p>	<p>This manual lists and explains all QMS Document Option Commands (DOCs), software codes you insert in documents to enable printer features that can't be accessed by your application or page description language. Printer-supported DOCs are listed in appendix C, "Document Option Commands," of the <i>Reference</i> manual. In most cases only advanced users or system administrators need this information.</p>

Related Documentation

Several other documents are also helpful when using your printer:

	PostScript Reference Manuals	Other manuals that contain PostScript information are the <i>PostScript Language Reference Manual</i> (Adobe Systems, Inc., Reading, MA: Addison-Wesley, 1990 ISBN-0201-18127-4), and other PostScript <i>Language Reference Manual</i> supplements.
	Other Reference Sources	Don't forget that your application documentation, host operating system documentation, and network documentation all contain useful printing information. Further information on QMS printers is available through the Internet and Q-FAX. See appendix A, "QMS Customer Support," for details.

Manuals on the CD-ROMs

The manuals included on the *QMS magicolor 2 Print System Documentation* and *QMS Software Utilities* CD-ROMs are in Adobe Acrobat PDF format. We've also provided the Acrobat Reader and QuickTime programs on both CD-ROMs. The CD-ROM insert provides instructions on installing them.

About Adobe Acrobat Reader

Adobe Acrobat PDF-formatted manuals give you more flexibility and convenience than do hardcopy manuals when you have to access information. Here are some of the advantages PDF-formatted manuals provide:

- You can store the PDF manuals in a central location for access by anyone on the network.
- You can view and print the manuals on Windows, Macintosh, and UNIX platforms.
- You can view the manuals on web browsers using the Acrobat plug-in.

About the Documentation


- You can view the manuals on-screen in different formats (side-by-side or two-up, one page at a time, scrolling two-up, article flow, and zooming capability up to 800%).
- You can conduct full-text searches through all of the manuals.
- You can watch QuickTime video clips on Windows and Macintosh platforms that enhance the text and illustrations for a number of commonly performed procedures. (When installing the Reader, be sure to select the option to install QuickTime.)
- You can print only the manual pages that you need.
- The PDF-formatted manuals have been enhanced for on-screen viewing and navigation. Throughout each manual are numerous hotlinks to cross-reference points. The table of contents and the index are fully hotlinked to their respective page references, and all World Wide Web addresses are linked to their respective home pages.

We hope you enjoy using the Acrobat software to access the information in your manuals. They'll never become dog-eared and yellowed or collect dust on some forgotten shelf with quick on-line access. Your PDF-formatted manuals will empower you to take full advantage of all the capabilities of your printer.

Using Adobe Acrobat Reader

When you use Acrobat to view your manuals, keep the following tips in mind for using some of the navigation features built into Acrobat and your manuals.

- You may view the document in three different styles: page only, with bookmarks, or with thumbnails. Try each to see which you like best. Viewing with bookmarks will enable you to use a quick table of contents to move around the document.
- The toolbar also gives you quick access to page navigation features. For example, you may click a button to advance (>) or reverse (<) one page, go to the start (|<) or end (>|) of the document, or use the history button (<<) to go to the previous pages you viewed. There are other buttons in the toolbar to change view or magnification of the document.

- As you browse through the document the open hand tool will sometimes turn into a pointing hand. You have discovered an embedded link in the manual. You will find these links in the table of contents, index, www addresses, and cross references. Click on the link to jump to a new location.
- You may discover a movie camera icon on Windows and Macintosh platforms. Click the icon to play a QuickTime video clip of the procedure described in the text. 
- Use the Acrobat Reader Online Help for a more complete explanation of these features.

A Note on Media

All QMS manuals are also available in hard copy. In the US, call 1 (800) 523-2696 for purchase information. Elsewhere, refer to appendix A, "QMS Customer Support."

In addition, many applications, utilities, and printer drivers on the *QMS Software Utilities* CD-ROM are available on alternate media. Contact your QMS vendor for media availability and purchase information. You can also download many of these files via ftp from our World Wide Web Server at <http://www.qms.com>, our ftp resource at [ftp.qms.com](ftp://ftp.qms.com), or CompuServe at go qmsprint. Refer to appendix A, "QMS Customer Support," for sales and support locations and telephone numbers.


About This Manual

This manual contains detailed, illustrated instructions to guide you as you unpack and set up your printer and connect it to a host computer or network. In addition, it introduces you to the printer's control panel.

1	Introduction	Presents an overview of the documentation and of the printer's features.
2	Setting Up Your Printer	Guides you in selecting a location for your printer and explains how to unpack and set up your printer.
3	Connecting to a PC	Explains how to connect the printer to a PC using either the parallel or serial port.
4	Connecting to an Ethernet Network	Explains how to connect the printer to an Ethernet network using the Ethernet port and how to do the necessary printer and network configuration.
5	Connecting to a Macintosh	Explains how to connect the printer to a Macintosh using the optional LocalTalk port.
6	Using the Control Panel	Introduces the parts of the printer control panel.
A	QMS Customer Support	Provides product sales and support telephone numbers and describes how to communicate with QMS through CompuServe, the Internet, and Q-FAX.

Typographic Conventions

The following typographic conventions are used in this manual:

Mixed-Case Courier	Text you type, and messages and information displayed on the screen
<i>Mixed-Case Italic Courier</i>	Variable text you type; replace the italicized word(s) with information specific to your printer or computer
UPPERCASE COURIER	Information displayed in the printer message window
lowercase bold	PostScript operators and DOS commands
<i>lowercase italic</i>	Variable information in text
UPPERCASE	File and utility names
↵	Press the Enter key (PC) or Return key (Macintosh)
^	Press and hold down the Ctrl key (PC)
	In Adobe Acrobat PDF versions of the manual, click to play a QuickTime video clip of the procedure described in the text.

» **Note:** Notes contain tips, extra information, or important information that deserves emphasis or reiteration.

▲ **Caution:** Cautions present information that you need to know to avoid equipment damage, process failure, or extreme annoyance.

💧 **WARNING!** Warnings indicate the possibility of personal injury if a specific procedure is not performed exactly as described in the manual.

ACHTUNG! Bitte halten Sie sich exakt an die im Handbuch beschriebene Vorgehensweise, da sonst Verletzungsgefahr bestehen könnte.

What's Next?

Chapter 2, "Setting Up Your Printer," explains how to find a good location for the printer, unpack the printer, install consumables (toner cartridges, belt cartridge, fuser oil, and fuser cleaning pad), load and install the standard media cassette, turn the printer on, and print a start-up page.



2

Setting Up Your Printer

In This Chapter . . .

- “Introduction” on page 2-2
 - “Finding a Good Location” on page 2-2
 - “Checking Shipment Contents” on page 2-4
 - “Registering the Printer” on page 2-5
 - “Unpacking the Printer” on page 2-6
 - “Getting Acquainted with Your Printer” on page 2-9
 - “Installing Consumables” on page 2-10
 - “Loading the Media Cassette” on page 2-15
 - “Printing a Start-up Page” on page 2-17
 - “Installing Options” on page 2-18
-

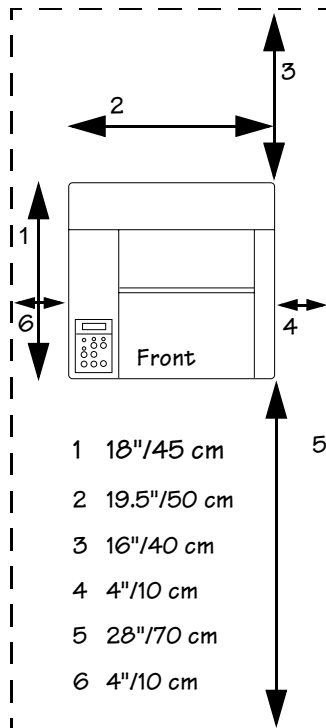
Introduction

This chapter explains how to set up your printer for the first time. It includes information on finding a good location for the printer, unpacking and checking the shipment contents, installing consumables (toner cartridges, OPC belt cartridge, fuser oil bottle, and cleaning pad), loading the media cassette, turning the printer on, and printing a start-up page.

Finding a Good Location

Location Requirements

- With enough space to allow adequate ventilation and easy servicing.
- Away from cooling and heating sources, extreme temperature changes, direct sunlight, excessive dust, corrosive chemicals or vapors, water pipes, refrigerators, and any strong electromagnetic field (such as that created by an air conditioner),
- Away from items that can easily burn (such as curtains) and items that produce excessive vibration.
- In an area with a temperature range of 50°–90.5° F (10°–32.5° C) and relative humidity range of 20%–80%.
- At an altitude of 0–8202' (0–2500 m).
- On a hard, level surface capable of supporting the 79 lb (36 kg) printer. The printer must be placed within 1.5° of level.



- In a well-ventilated room.
- Close to an easily accessible power supply. Don't connect it to the same electrical outlet as noise-generating equipment.
- Near your computer—6.5' (2 m) or less for an IEEE 1284 directional parallel connection; cables for other connections may be longer.

Power Requirements

- Your printer requires a properly grounded AC outlet with a rated line voltage of 100 V, 120 V, or 220-240 V.
- The line voltage must remain within ± 10 percent of the rated voltage for proper operation of the printer.
- The amperage capacity of the electrical outlet must be at least 1.2 times that used by the printer.
- The maximum electrical current required during operation is 10 amps for a 100 V system, 8.3 amps for a 120 V system, and 4 amps for a 220-240 V system.
- Noise-generating equipment should not be connected to the same electrical outlet as the printer.
- The recommended frequency is 50–60 Hz ± 2 Hz for a 100 V system, 60 Hz ± 2 Hz for a 120 V system, and 50 Hz ± 2 Hz for a 220-240 V system.

Checking Shipment Contents

Energy Star Compliance

The QMS *magicolor 2* Print System is compliant with US Environmental Protection Agency (EPA) Energy Star regulations. After a specified period of inactivity, the printer changes to a low-power state (the engine remains on, but the fuser turns off). When a print job is received, the printer returns to normal power within 90 seconds.



Checking Shipment Contents

Shipment Contents

Make sure that all items are included in your shipment before setting up your printer. If any items are missing or damaged, contact your shipping company or your QMS vendor. See appendix A, "QMS Customer Support," for product sales and support information.

- 250-sheet letter/A4 media cassette
- Consumables starter kit
 - 4 starter toner cartridges (1 each black, cyan, magenta, and yellow); at normal 5% coverage, the black cartridge will print 5,000 simplex letter/A4-size pages while the cyan, magenta, and yellow cartridges will each print 3,000 pages
 - OPC belt cartridge
 - Fuser oil
 - Fuser cleaning roller
 - Fuser oil removal syringe
- Power cord
- *QMS magicolor 2 Print System Getting Started* (this manual)

- *QMS magicolor 2 Documentation CD-ROM*
 - *QMS magicolor 2 Print System Getting Started* (this manual)
 - *QMS magicolor 2 Print System Operation*
 - *QMS magicolor 2 Print System Options*
 - *QMS magicolor 2 Print System Reference*
 - Adobe Acrobat Reader 3.0 software
 - *QMS Software Utilities CD-ROM*
 - *Warranty and registration card*
- » **Note:** *Interface cables aren't included in the shipment. If you need cables, contact your QMS vendor or a local computer store. See chapters 3, 4, and 5 of this manual for information on the type cable needed.*

Media

If you need alternate media, contact your QMS vendor for media availability and purchase information. (See appendix A, "QMS Customer Support," for sales and support locations and telephone numbers.) You can also download some of these files via ftp from our World Wide Web Server at <http://www.qms.com>, our ftp resource at <ftp.qms.com>, or CompuServe at [go qmsprint](go.qmsprint).

Registering the Printer

You can register your printer through our World-Wide Web site, <http://www.qms.com/support/prodreg>. To register by mail, fill out and send in your warranty card. To register by telephone, in the US call QMS at (334) 633-4300. In other countries, refer to appendix A, "QMS Customer Support," for the appropriate telephone number.

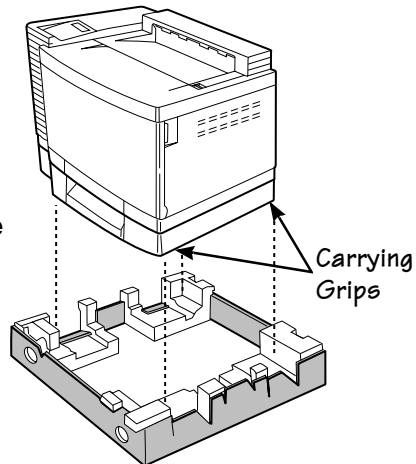
Unpacking the Printer

Save the packing materials in case you ever have to move or ship the printer to a new location.

-
- ▲ **Caution:** *Remove all packing materials before turning on the printer, or you may damage it.*
-

- 1 Remove everything except the printer from the shipping carton.
- 2 Open the protective plastic covering the printer.
- 3 With another person's help, lift the printer from the base tray, and place it in its permanent location.

When lifting or carrying the printer, use the carrying grips on the bottom sides of the printer.



WARNING! *The printer weighs approximately 64 lbs (29 kg) without consumables. Do not attempt to lift the printer by yourself.*

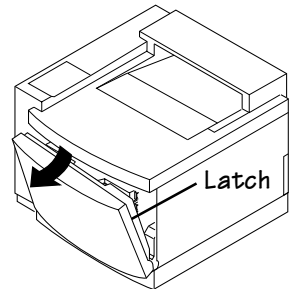
ACHTUNG! *Der Drucker hat ein Gewicht von ungefähr 29 kg. Bitte versuchen Sie niemals, den Drucker alleine anzuheben oder zu transportieren.*

- 4 Remove any tape securing the front, top, and rear covers.

Unpacking the Printer

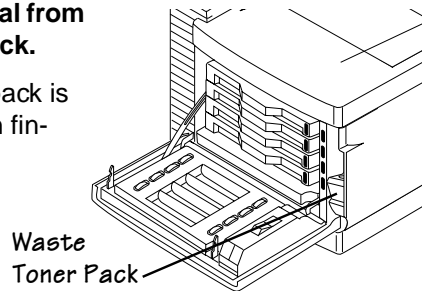
5 Open the printer's front cover.

Squeeze the latch near the upper-right corner of the cover.



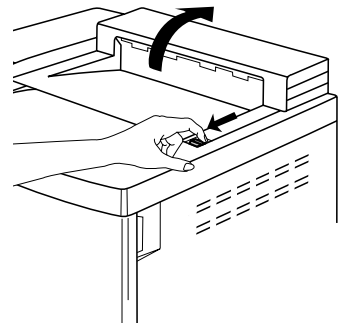
6 Remove any packing material from the printer's waste toner pack.

Ensure that the waste toner pack is reinserted into its cavity when finished.



7 Remove any other packing material from inside the printer's front cover and toner cartridge cavity.

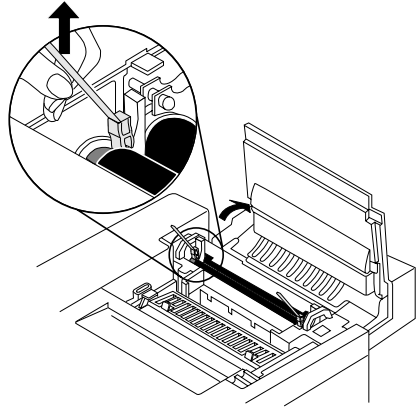
8 Pull the latch to release the top cover, and then open the cover.



Unpacking the Printer

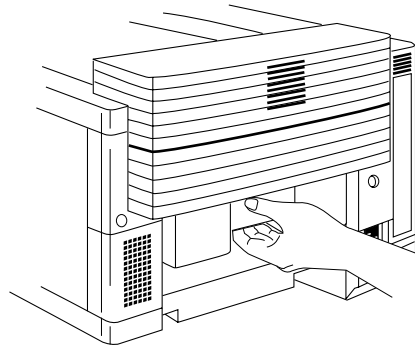
- 9 Remove any packing material from inside the printer.
- 10 Remove the orange shipping spacers from between the fuser rollers.

» **Note:** Save the spacers in case you need to repack the printer for relocation or shipping later.

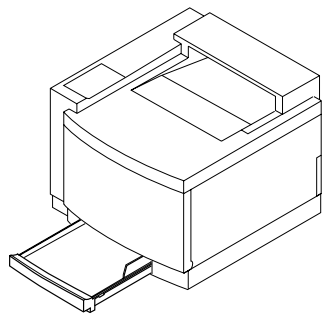


- 11 Open the rear cover, and remove any packing material.

Pull the handle on the rear cover to open it.

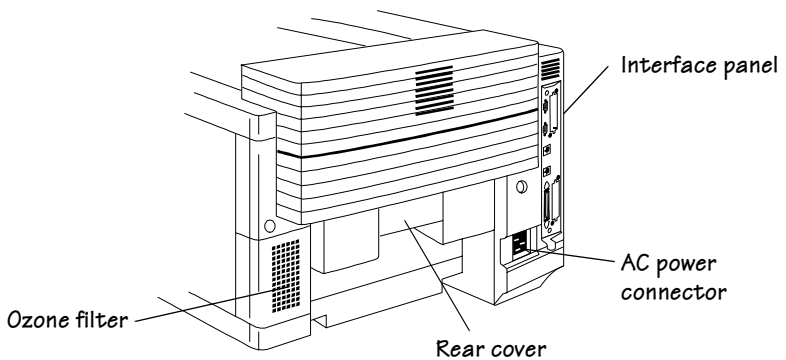
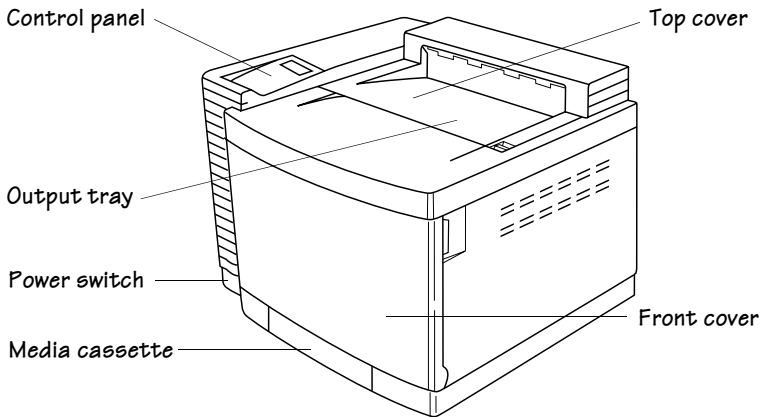


- 12 Close all the printer's covers.
- 13 Remove the media cassette, and then remove any packing material from the cassette.
- 14 Slide the media cassette back into the printer.



Getting Acquainted with Your Printer

Before installing the consumables and operating the printer, you should become familiar with certain physical items:



Installing Consumables

OPC Belt Cartridge

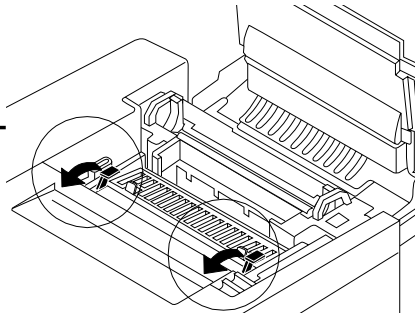
-
- ▲ **Caution:** *The OPC belt is extremely sensitive to bright light and direct sunlight. Always leave it in its protective bag until you're ready to install it. Also, handle the cartridge carefully. The belt is also extremely sensitive to hand oils and scratches, both of which reduce print quality.*
-

1 If it's not already open, open the printer's front cover.

- ▲ **Caution:** *This is necessary as it pulls the toner cartridges forward slightly to make room for the OPC belt cartridge. You could damage the OPC belt if you don't do this.*
-

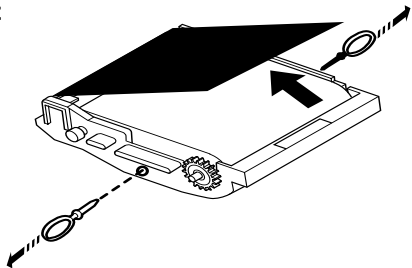
2 Open the printer's top cover.

3 Rotate up the two lock levers (one on each side of the OPC belt cartridge opening) to prepare the opening for the cartridge.



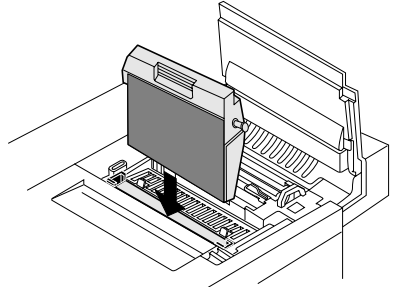
4 Remove the protective sheet from the cartridge, and then pull out the two orange tension-release pins (one on each side of the cartridge).

- » **Note:** *Save the spacers in case you need to repack the printer for relocation or shipping later.*



- 5 **Holding the cartridge above the printer, align the guide pins on the cartridge with the guide slots in the lock levers.**

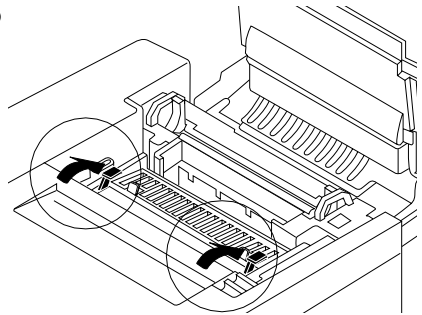
The white gear on the cartridge goes to the right, and the green surface of the cartridge faces you.



- 6 **Gently guide the cartridge into the printer.**

▲ **Caution:** *The cartridge should slide easily into the printer. Don't force it.*

- 7 **Rotate the two lock levers to secure the OPC belt cartridge in the printer.**
- 8 **Close the printer's front cover.**



Toner Cartridges

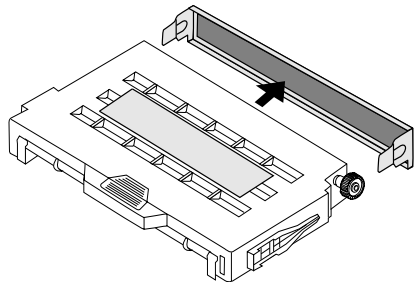
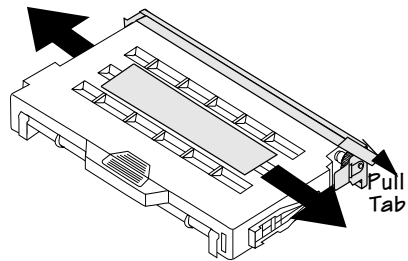
Your printer uses four toner cartridges: black, yellow, magenta, and cyan.

- » **Note:** *The starter toner cartridges shipped with your printer contain half the capacity of replacement toner cartridges. In other words, the black starter toner cartridge will print 5,000 images (at normal 5% coverage) while the yellow, magenta, and cyan starter toner cartridges will each print 3,000 images (at normal 5% coverage).*

- 1 Open the printer's front cover.**
- 2 Remove the toner cartridges from their shipping cartons.**
- 3 Distribute the toner in the cartridges.**

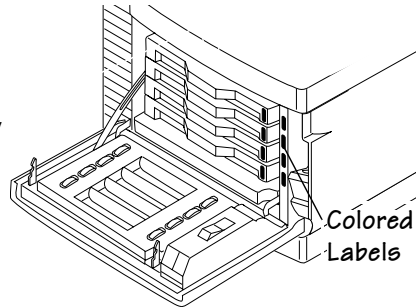
Holding a cartridge with both hands, gently rock it from side-to-side five or six times.

- 4 Pull the tab.**
- 5 Remove the orange protective cover from each cartridge.**



6 Install the four toner cartridges.

Align each toner cartridge with its cartridge guides, and gently push the cartridge into the printer.



- ▲ **Caution:** *Each toner cartridge has a colored label that corresponds to a colored label to the right of the cartridge slots. Always install the toner cartridge in the slot with a label of the same color.*

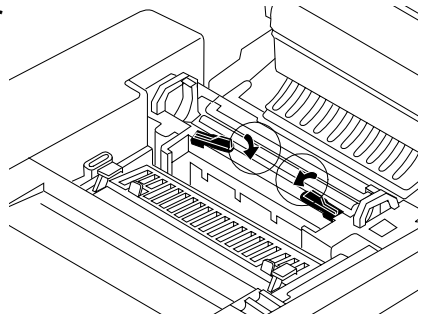
If a toner cartridge doesn't slide in easily, don't force it. Check that you're installing the correct color toner cartridge into the correct slot. (Each cartridge is physically as well as visually keyed to ensure correct installation.) In addition, toner cartridges don't snap into place and may appear not to be fully inserted; however, closing the front door will guide the cartridges into their final position.

7 Leave the printer's front cover open for now.

Fuser Oil Bottle and Cleaning Roller



- 1 Open the two cleaning roller lock levers by rotating them toward you.

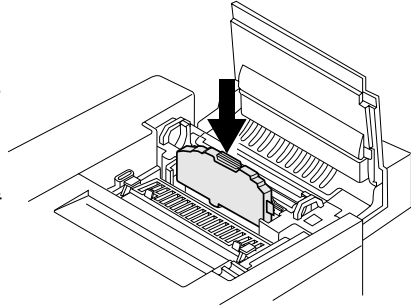


Installing Consumables

2 Lower the oil bottle into its slot.

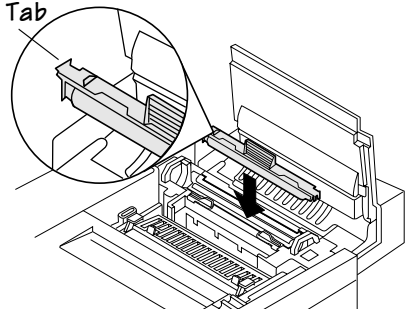
The tab on the side of the bottle must be on the right.

- » **Note:** *Because the first oil bottle must prime the printer, it has less than the normal 12,000-page life expectancy.*



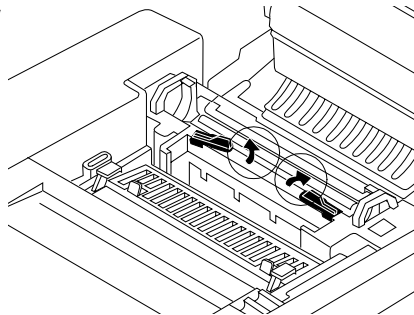
3 Install the cleaning roller in its slot.

The tab on the top of the cleaning roller must be on the left.



4 Close the two lock levers by rotating them away from you.

5 Close all the printer's covers.



Loading the Media Cassette

Prepare the Paper

- 1 Take a stack of about 250 sheets ($\frac{1}{2}$ ream).
- » **Note:** *Don't unpack the media above the printer as this might cause media particles to fall into the printer.*
- 2 Holding the stack with one hand, fan the sheets with the other hand.

This gets air through the sheets and prevents static buildup.

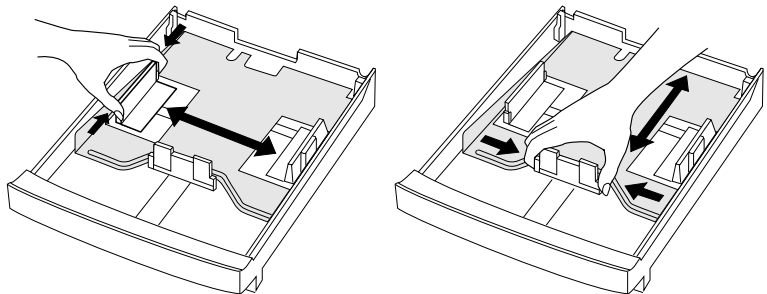
- 3 Take off the top and bottom sheets.

These sheets sometimes have residual glue buildup that could cause a media jam.

Load the Cassette

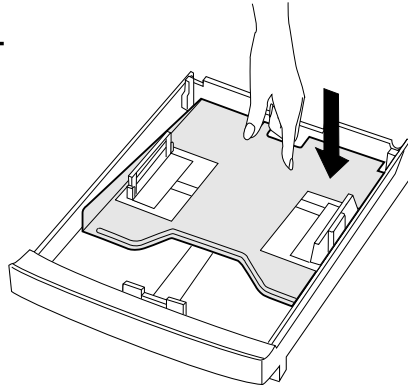
- 1 Remove the media cassette from the printer.
- 2 Adjust the media guides to fit the size paper you're loading.

Squeeze the retainers at the ends of the left width guide and/or the length guide, move the guide to the appropriate location (media sizes are listed on the cassette), and release the retainers.



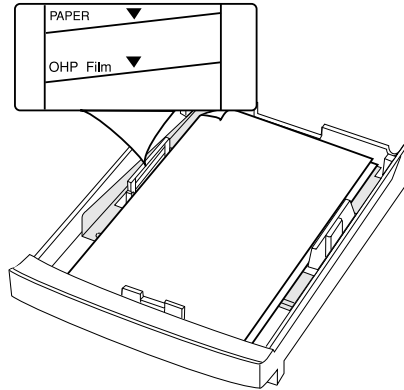
Loading the Media Cassette

- 3 Push the media pressure plate down to lock it in position.



- 4 Load the paper.

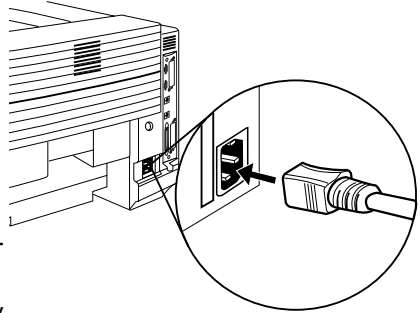
- A fill limit mark is provided on the inside left side of the cassette. The media cassette holds 250 sheets of 20 lb (75g/m²) paper. (Paper is packed in reams of 500 sheets.) Do not overfill the cassette.
- The paper should face up with its top towards the rear of the cassette. An arrow on the paper package label indicates the face-up side of the paper.



- 5 Slide the media cassette back into the printer.

Printing a Start-up Page

- 1 Make sure the printer is turned off.
- 2 Plug the printer into a grounded, surge-protected, electrical outlet.
- 3 Turn on the printer.



Press in the power button near the bottom left of the printer.

After a brief warm-up (typically

3 minutes) the printer produces a start-up page. More information about start-up pages is included in the *Reference* manual.

- 4 If the start-up page prints and the print quality is good, go on to the next section, “Installing Options.”

» **Note:** *The number of sheets/faces printed statistics on the start-up page differ from the number of sheets/faces printed statistics in CrownView and on the consumables statistics page (Operator Control/Consumables/Print Statistics). The numbers on the start-up page refer to the number of sheets/faces printed during the life 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).*

If the start-up page doesn't print or the print quality is not good, skip ahead to “Installation Troubleshooting” on page 2-18.

Installing Options

If you purchased any printer options, such as extra memory (SIMMs), emulations, an interface card, or an internal hard disk, install them now. If installation instructions are included with the option, follow them. If not, use the installation instructions in the *Options* manual.

Installation Troubleshooting

If you see this...	It's probably because...	Do this...
Colors aren't registering properly.	The OPC belt cartridge is not pushed all the way in.	Repeat the steps in "OPC Belt Cartridge" on page 2-10.
CHECK WASTE TONER message appears in the message window.	The waste toner pack isn't properly installed.	Make sure it sits loosely in its compartment and that the top of the pack is not wedged under the top of the compartment.
Printouts seem faded on one side of the page.	The printer is not on a level enough surface.	Level the printer surface. The slant of the surface holding the printer should not exceed 1.5° after the printer is placed on it (for example, a round pencil laid on the surface shouldn't roll in any direction).
The colors look drastically wrong.	The toner cartridges are not correctly installed.	Check the toner cartridge installation. Refer to "Toner Cartridges" on page 2-12.
The start-up page comes out skewed.	The transfer unit was jarred open during the installation and needs to be closed.	Refer to the "Troubleshooting" chapter in the <i>Operation</i> guide for information on opening and closing the unit.

If you've followed all of the instructions in this chapter and still have problems you can't solve, see appendix A, "QMS Customer Support," for information on getting help.

What's Next?

Now that you've set up your printer and installed any options you might have purchased, refer to one of the following chapters to connect it either directly to a computer or to a network:

- Chapter 3, "Connecting to a PC"
- Chapter 4, "Connecting to an Ethernet Network"
- Chapter 5, "Connecting to a Macintosh"



3

Connecting to a PC

In This Chapter . . .

- “Introduction” on page 3-2
- “Making a Parallel Connection” on page 3-3
- “Making a Serial Connection” on page 3-5
- “PC Printing Software” on page 3-7
- “Printing from the PC” on page 3-16
- “If You Have Trouble” on page 3-17
- “What’s Next?” on page 3-17

Introduction

This chapter explains how to connect your printer to a PC through either the parallel port or serial port.

- » **Note:** *If you're connecting to a PC through an Ethernet network, refer to chapter 4, "Connecting to an Ethernet Network."*

Overview

- 1 **Turn off both the printer and the PC.**
- 2 **Connect the printer to the PC.**
 - If you're connecting to a PC through a parallel interface, connect the printer to the PC as described in "Making a Parallel Connection" on page 3-3.
 - If you're connecting to the PC through a serial interface, connect the printer to the PC as described in "Making a Serial Connection" on page 3-5.
- » **Note:** *If the printer is more than 6.5 feet (2 meters) from the PC, we recommend using a serial connection for better communication.*
- 3 **Turn on both the printer and the PC.**
- 4 **Install a printer driver.**

See "PC Printing Software" on page 3-7.
- 5 **You're ready to print.**

Making a Parallel Connection

What You Need for a Parallel Connection

Interface cables are not included with your printer. If you're replacing a printer, you may already have the necessary cables. If not, you'll need to purchase the cables from your QMS vendor or a local computer store.

To connect your printer to a single PC, you need a parallel cable with a 36-pin male and a 25-pin male connector.

How to Choose a Parallel Cable

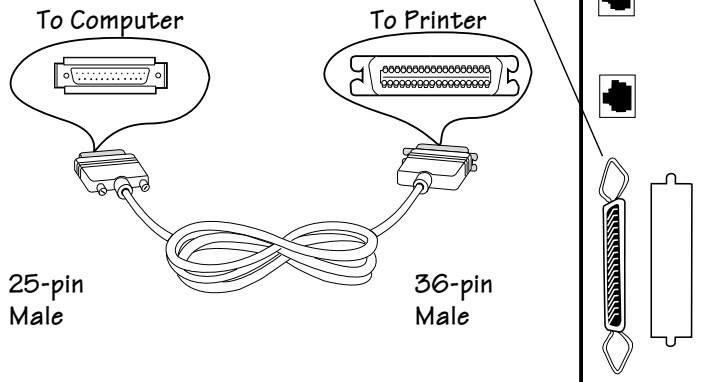
Your printer supports both Centronics parallel and IEEE 1284 bidirectional parallel communications. The type of parallel cable you use depends on the type of parallel communication your computer supports (check your computer user's manual if you're unsure).

- If your computer supports IEEE 1284 bidirectional parallel communication, you need an IEEE 1284 bidirectional parallel cable (IEEE 1284 is indicated on the cable). This cable must be 6.5 feet/2 meters or less in length.
- If your computer supports only Centronics parallel unidirectional communication, you may use either a Centronics parallel cable (unmarked on cable) or an IEEE 1284 bidirectional parallel cable (IEEE 1284 is indicated on the cable). QMS recommends the IEEE 1284 cable. The IEEE 1284 cable must be 6.5 feet/2 meters or less in length while the Centronics cable may be longer.

Making a Parallel Connection

Making the Connection

- 1 Turn off both the printer and the PC.
- 2 Connect the PC and the printer using a parallel cable.
 - a Connect the 25-pin end of the cable to the PC's parallel port, and then tighten the screws.
 - b Attach the 36-pin end of the cable to the printer's parallel port, and close the clips.



- 3 Turn on both the printer and the PC.

A start-up page should print. If it doesn't, refer to chapter 8, "Troubleshooting," of the *Operation* manual.

- 4 Test the communication between the printer and the PC.

You can do this by sending a file from one of your applications, or refer to chapter 8, "Troubleshooting," of the *Operation* manual.

Making a Serial Connection

What You Need for a Serial Connection

Interface cables are not included with your printer. If you're replacing a printer, you may already have the necessary cables. If not, you'll need to purchase the cables from your QMS vendor or a local computer store.

To connect your printer to a single PC, you need a serial cable with either a 9- or 25-pin connector (depending on your PC's serial port) and a 9- or 25-pin null modem assembly to connect to the serial cable. Depending on the type of null modem assembly you have, you may also need a 9-to-25-pin adapter. See your cable vendor for more specific cable assembly information.

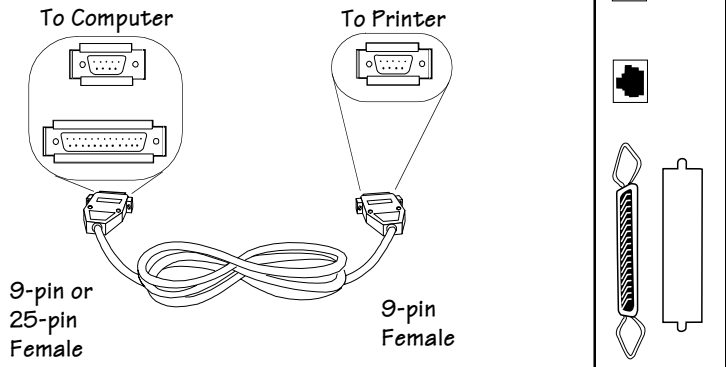
How to Choose a Serial Cable

For best results, the serial cable should be less than 25 feet (7.6 meters long).

Making a Serial Connection

Making the Connection

- 1 Turn off both the printer and the PC.
- 2 Connect the PC and the printer using a serial cable.
 - a Connect the serial cable (with the null modem adapter attached) to the PC's 9- or 25-pin male serial port, and tighten the screws.
 - b Connect the other end of the cable to the printer's serial port, and tighten the screws.



- 3 Turn on both the printer and the PC.

A start-up page should print, and Serial RS-232C should be listed as an interface. If it doesn't, refer to chapter 8, "Troubleshooting," of the *Operation* manual.

- 4 Test the communication between the printer and the PC.

You can do this by sending a file from one of your applications, or refer to chapter 8, "Troubleshooting," of the *Operation* manual.

PC Printing Software

If you're replacing a PostScript printer, you can probably start printing now with the printing software already in place. Refer to your application documentation for instructions on sending documents to the printer.

However, if you want to be able to use all your printer's special features, or if you've never printed to a PostScript printer before, we recommend you take a few minutes to make sure you have the following printing software installed:

- A PostScript Level 2 printer driver
- Printer description files (if you use QuarkXPress 3.3, PageMaker, or Photoshop)

Installing a PostScript Printer Driver

Windows Applications

If you're using Windows, we recommend that you install one of the QMS-developed Level 2 Windows drivers on the *QMS Software Utilities* CD-ROM we shipped with your printer. Drivers are available for

- Windows 3.1
- Windows for Workgroups 3.11
- Windows 95
- Windows NT 3.51
- Windows NT 4.0

Refer to the README file on the CD-ROM for information on the directory location of each driver. Then refer to the README file in that directory for installation information.

Non-Windows Applications

If you're using a non-Windows application, read the printing section of the application documentation for information on choosing a

PostScript driver. If the application does not provide a PostScript driver, contact the application manufacturer to see if one has become available since you bought the program. Also, PostScript drivers for some applications are available through CompuServe. See appendix A, "QMS Customer Support," for information.

Also, check to see if application notes (tips for printing from specific applications) are available for your application from Q-FAX or CompuServe. Appendix A, "QMS Customer Support," explains how use these QMS information services.

Installing a QMS Level 2 Windows Driver

Windows 95

System Requirements

- An IBM or compatible PC with 386 or higher processor
- A hard disk with at least 1 MB of free space
- At least 4 MB of RAM
- Windows 95

Installation

- 1 **With Windows 95 running, insert the CD-ROM in your PC's CD-ROM drive.**
- 2 **From the Start menu choose Settings.**
- 3 **From the Settings menu choose Printers.**
- 4 **In the Printers window double-click on Add Printer.**
- 5 **Follow the instructions in the Add Printer Wizard.**
- 6 **When you're prompted to select a manufacturer and printer, choose Have Disk...**
- 7 **In the Install From Disk window, choose Browse...**

- 8 Change to the *x*/PLATFORM/WINDOWS/DRIVERS/MC2_95PS directory, where *x* is the PC's CD-ROM drive.**

QMS.INF displays in the File Name list.

- 9 Choose OK to return to the Install from Disk window.**

- 10 Choose OK again.**

QMS magicolor 2 CX displays in the Printers list.

- 11 Continue following the instructions in the Add Printer Wizard to complete the installation.**

- 12 When the installation is complete, exit from the Printers window.**

- 13 Remove the CD-ROM, and store it in a safe place.**

Windows 3.1, Windows for Workgroups 3.11, Windows 95, Windows NT 3.51

System Requirements

- An IBM or compatible computer with 386 or higher processor
- A hard disk with at least 1 MB of free space
- At least 4 MB of RAM
- MS-DOS 5.0 or higher
- Either Windows 3.1, Windows for Workgroups 3.11, Windows 95, or Windows NT 3.51

Installation

- 1 Insert the CD-ROM in your CD-ROM drive.**
- 2 With Windows running, from Program manager's File menu, choose Run.**

» **Note:** *Running the installation program outside of windows will automatically start Windows and run the program.*

3 In the Run dialog box, type

x:\platform\windows\drivers\pslv12\setup.exe↓

where x is the letter of your CD-ROM drive, and then choose OK.

4 Read the license agreement, and choose Yes upon acceptance.

5 Select the destination hard disk.

6 Specify the installation directory.

7 Select the QMS printer(s) to be installed.

▲ **Caution:** *Windows limits the total number of installed printers to 16.*

8 Choose OK.

Windows NT 4.0

System Requirements

- An IBM or compatible PC with 386 or higher processor
- A hard disk with at least 128 MB of free space
- At least 16 MB of RAM (32 MB recommended)
- Windows NT 4.0

Installation

- » **Note:** *If you want to be able to print to a QMS CrownNet port, the QMS CrownNet Print Utility for Windows must be installed on your Windows NT workstation or server, and a port must be created before continuing with this installation procedure. See the PRTMONNT.PDF file (Adobe Acrobat format) in the \PLATFORM\WIN_NT\MONITOR directory of the QMS Software Utilities CD-ROM for details on installing and setting up this utility. In addition, if a Windows NT 4.0 or a QMS Level 2 Windows NT 4.0 printer driver has been previously installed, you must use the reinstallation procedure on page 3-12.*
- 1 With Windows NT 4.0 running, insert the QMS Software Utilities CD-ROM disk in the CD-ROM drive on your workstation.**

- 2 In the Windows NT Start menu choose Settings.**
- 3 In the Settings menu choose Printers.**
- 4 Choose Add Printer.**
- 5 Choose Next.**
- 6 When prompted, choose the appropriate radio button to identify how the printer is attached to your workstation (Local Printer or Network Printer), and then choose Next.**
- 7 When prompted to select a port to use with the printer, select the appropriate port, and then choose Next.**
- 8 When prompted to select a manufacturer and model of printer, choose Have Disk.**
- 9 In the Install from Disk dialog box, choose Browse.**
- 10 Change to the *y*/PLATFORM/WIN_NT/DRIVER/4X/*type* directory, where *y* is the workstation's CD-ROM drive, and *type* is the type of processor on your workstation.**
OEMSETUP.INF displays in the File Name list.
- 11 Choose OK.**
A list of QMS printers displays.
- 12 Select QMS magicolor 2 CX, and choose Next.**
- 13 When prompted, choose Replace Existing Driver, and then choose Next.**
- 14 When prompted for a printer name, either accept the displayed name or type a new one, and then choose Next.**
- 15 When prompted for sharing information, choose either Shared (and type a Share Name) or Not Shared, and choose Next.**
- 16 When prompted, select the operating systems of ALL computers that will be printing to the printer, and then choose Next.**
- 17 When asked if you'd like to print a test page, choose either Yes or No, and then choose Finish.**

Reinstallation

- » **Note:** *If a Microsoft Windows NT 4.0 or a QMS Level 2 Windows NT 4.0 printer driver has been previously installed, you must use the following procedure to delete the files before installing a new printer driver.*
 - 1 Open Windows NT Explorer (from the Start>Programs menu choose Windows NT Explorer).**
 - 2 Delete the printer(s) you want to replace or upgrade.**
 - 3 Install the new printers using the installation procedure on page 3-10.**
 - 4 Reboot your workstation.**

Notes on Installing Printer Description Files

The QMS Level 2 Windows Driver install program SETUP.EXE copies PPD and PDF files into separate subdirectories under the specified installation directory. See the QMS Level 2 Windows Driver for more detailed driver information. Online help is provided through the QMS Level 2 Windows driver. You may delete the PPD and/or PDF files if you don't use applications that require them.

Applications may require special files, drivers, and/or configurations to produce correct output on your QMS *magicolor 2* Print System. Check your application's documentation to determine if you need to use one or more of these files.

Adobe Illustrator 5.5

For best output quality and accurate screening, install the QMS-developed Windows driver as described in "Installing a QMS Level 2 Windows Driver" on page 3-8. Then do the following to change the default resolution:

- 1 In Adobe Illustrator, enable 600 dpi by choosing Document Setup from the File menu.**
- » **Note:** *Adobe Illustrator 5.5 has a default setting of 300 dpi.*
- 2 Click on Use Printer's Default Screens to enable it.**
 - 3 Go to Output Resolution and enter the resolution.**

Adobe Photoshop

For best output quality and accurate screening, install the QMS-developed Windows driver as described in "Installing a QMS Level 2 Windows Driver" on page 3-8. Then do the following:

- 1 From Page Setup dialog box of the Photoshop application, select Screens.**
- 2 Then click the Use Printer's Default Screen box to enable it.**

In addition, RGB graphics created in Photoshop 2.5 and later include data called RGB tags, which causes Photoshop to use its own algorithms when converting RGB data to CMYK for separations. Unless these tags are disabled (possible in all versions except 3.01), Photoshop converts all RGB data to CMYK rather than letting the printer perform the conversion. Use the following procedure to disable RGB tags in Photoshop for Windows. (RGB tags are disabled by default in Photoshop for Macintosh.)

- 1 Make a backup copy of the Photoshp.ini (Photoshop 2.5x) or Photos30.ini (Photoshop 3.0 and later) initialization file.**
- 2 Using a text editor, open the original initialization file.**
- 3 In the [Photoshop} section of the initialization file, add the following line:**

```
Disablergbtags=1
```
- 4 Save the initialization file (in text-only format).**
- 5 Restart Photoshop.**

Aldus PageMaker 5.x/Adobe PageMaker 6.x

We recommend that you install a Windows Printer Description (WPD) file instead of the QMS Level 2 Windows driver with PageMaker 5.0 because PageMaker requires a Microsoft 3.56 or higher Windows driver. Use the following procedure to install a WPD file.

» **Note:** *Keep in mind that many of the QMS Level 2 Windows driver features are not available from within PageMaker using the Microsoft Windows Driver.*

1 In the Windows Main group, double-click the Control Panel icon.

2 Double-click the Printers icon.

The Printers dialog box displays the list of installed printers. If no printer is installed, the install button and the list of available Windows 95 printers displays. If no printer is installed, skip to step 4, otherwise continue at step 3.

3 Click the Add button to install a new printer.

4 In the List of Printers dialog box, select Install Unlisted or Updated Printer.

5 Click the Install button and the Install Driver window displays.

6 Insert the *QMS Software Utilities* CD-ROM.

7 Type `y:\platform\windows\ppd\PPD95` (where *y* is the drive in which you inserted the CD-ROM), or use Browse to select the path, and then choose OK.

The list of available QMS printers displays.

8 Select the QMS *magicolor 2* printer, then choose OK.

If Windows does not ask for an updated driver, the printer appears in the list of installed printers.

If Windows asks for an updated driver, put PageMaker disk #6 in the disk drive, then type the letter of that drive.

9 Choose OK.

The printer appears in the list of installed printers.

PPD files are also to be used with PageMaker 5.0. They were copied into the PPD subdirectory of the QMS Level 2 Windows driver directory during the installation process. They should be stored in the \ALDUS\USENGLISH\PPD4 directory. This directory is typically found in the \WINDOWS directory, but PageMaker allows you to install it anywhere on your system.

If you're not sure where the \ALDUS directory is, open Windows File Manager, and search (the File menu) for "aldus" starting from the C:\ directory. Make sure you select "Search All Subdirectories."

Aldus Persuasion 2.1

This application won't print EPS (Encapsulated PostScript) images if the PostScript driver isn't PSCRIPT.DRV.

CorelDRAW 4.0

This application provides a feature to control whether a PostScript driver is actually treated as a PostScript driver or not. In the COREL-PRN.INI file under the [PSDRIVERS] section, specify which driver by either of the following statements:

QMSPS=1↵ (PostScript driver)

QMSPS=0↵ (Non-PostScript driver)

Microsoft Excel 5.0

If your using this application with color cell backgrounds in a sparse dot pattern, the background may not always print in all resolutions and/or orientations. Interference between the bit pattern and the PostScript halftoning for color causes this inconsistency. Change the resolution to one that does work for the background and use a darker shade of black for the pattern color, or enable the All Colors to Black option from within the Excel Images dialog box.

Other Applications

The scaling factor set in the driver is independent of any scaling factor set in an application. While the application's scaling factor is likely to affect the size and placement of image elements, the driver scaling factor simply scales the resultant image from the center of the page.

QuarkXPress 3.3

Follow this procedure to install the PDF. See your QuarkXPress documentation for detailed information on installing PDFs.

- » **Note:** *All PDFs are copied into a PDF subdirectory during the QMS Level 2 Windows Driver installation process.*
- 1** After you install the QMS driver for Windows, close the QuarkXPress application on your PC.
- 2** Copy the QuarkXPress PDF from its installation directory to the QuarkXPress directory on your PC.
- 3** Restart QuarkXPress.
- 4** Check the Page Setup menu to verify that your printer is in the list of available printers.

Printing from the PC

You're now ready to print from your PC. From this point, you'll probably perform most printing tasks from your application. For specific information, check the printing section in your application documentation.

For information on print media types and sizes, see chapter 2, "Print Media," in the *Reference* manual.

If You Have Trouble

If you have trouble connecting and configuring your PC interface, refer to chapter 8, “Troubleshooting,” of the Operation manual for troubleshooting tips.

What’s Next?

Now that you’ve connected your printer to a PC, continue with chapter 6, “Using the Control Panel,” in this manual to learn about the printer’s control panel keys, indicators, and message window.



4

Connecting to an Ethernet Network

In This Chapter . . .

- “Introduction” on page 4-2
- “Connect to the Network” on page 4-3
- “Install the CrownNet Software” on page 4-3
- “Configure the Interface” on page 4-4
- “Configure the Network” on page 4-11
- “Install the QMS CrownNet Print Utility or the QMS Network Print Monitor” on page 4-12
- “Where To Go From Here” on page 4-12
- “If You Have Trouble” on page 4-13
- “What’s Next?” on page 4-13

Introduction

The QMS CrownNet Ethernet interface is a combination of hardware and host software that allows your printer to be connected to an Ethernet network that supports the following:

Operating System	Protocol
AppleTalk	EtherTalk
LAN Manager/LAN Server	NetBIOS/NetBEUI
NetWare	IPX/SPX
TCP/IP	TCP/IP
Windows 3.1/Windows 95/Windows NT	TCP/IP/NetBIOS/NetBEUI/EtherTalk

The instructions given in this chapter are the minimum steps needed to get your printer up and printing. For complete installation information refer to the *QMS CrownNet Setup Guide*. For information on configuring the CrownNet interface and using the CrownNet software (CrownAdmin, CrownAdmin 3, CrownNet Manager, and the CrownNet Print Utility for Windows), refer to the *QMS CrownNet System Administrator's Guide*.

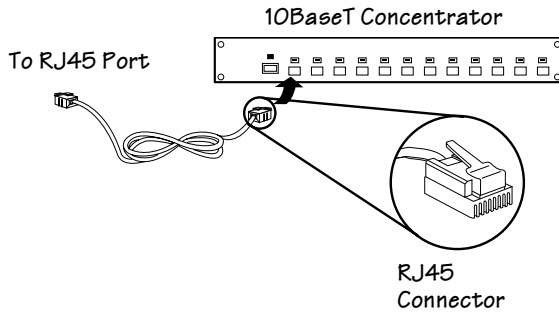
Overview

- 1 **Connect the printer to the network.**
- 2 **Install the CrownNet software.**
- 3 **Configure the CrownNet interface.**
- 4 **Configure the network.**
- 5 **Install the QMS CrownNet Print Utility or a QMS Network Print Monitor.**

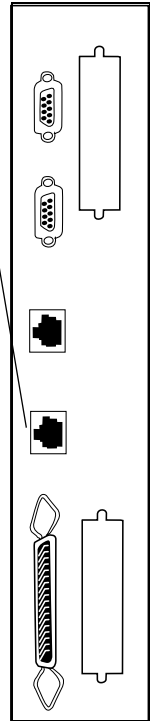
Connect to the Network

The printer provides a twisted-pair (10BaseT) Ethernet interface. Twisted-pair Ethernet connections use RJ45 connectors.

- 1 Turn off the printer, and unplug the power cord.
- 2 Connect one end of the twisted-pair Ethernet cable to the printer's Ethernet port.
- 3 Connect the other end of the cable to the 10BaseT concentrator.



- 4 Plug in the printer, and turn it on.



Install the CrownNet Software

It's not necessary to do this right now. You can install the CrownNet software after the printer is up and printing.

For complete instructions, refer to the *QMS CrownNet Setup Guide* on the *QMS Software Utilities CD-ROM*.

Configure the Interface

This section briefly describes the configuration procedure for the CrownNet Ethernet printer interface. For a complete discussion of all of the configuration options available through the Administration/Communications/Network2/CrownNet menu, see chapter 2, "Interface Configuration," of the *QMS CrownNet System Administrator's Guide*.

You can make these configuration changes through any of the following means:

- **Printer control panel**—For information on using the printer control panel to change configuration menu settings, refer to chapter 4, "Printer Configuration," of the *Reference* manual.
- **CrownAdmin (for DOS and Macintosh), CrownAdmin 3 (for AIX, HP-UX, Solaris/SunOS, and Windows/Windows NT/Windows for Workgroups), or CrownNet Manager (for OS/2)**—For more information on using this software, refer to the appropriate chapter in the *QMS CrownNet System Administrator's Guide* or to the software's on-line help.
- **Remote Console**—For information on accessing Remote Console, refer to the appropriate chapter in the *QMS CrownNet System Administrator's Guide*. For information on using Remote Console, refer to the *QMS Crown Remote Console User's Guide*.

EtherTalk Interface Configuration

- 1 **If your network has more than one zone, use the Administration/Communications/Network2/CrownNet/EtherTalk/Zone Name/Zone Part 1 and Zone Part 2 menus to enter the name of the zone to which the printer is attached.**
 - » **Note:** *The two Zone Part x menus allow you to identify 1 zone with a name up to 32 characters long. (Up to 16 characters can be entered in each of the two menus). You cannot use these two menus to identify two zones. Trailing spaces are not considered part of the zone name. All standard printable ASCII characters are valid except the @ and ' symbols. The names are case sensitive.*

2 You're now ready to print.

From this point, you'll probably perform most printing tasks from your application. For specific information, check the printing section in your application documentation.

For information on print media types and sizes, see chapter 2, "Print Media," in the *Reference manual*.

OS/2 LAN Manager/LAN Server and Microsoft Windows Network Interface Configuration

1 One unique printer name is broadcast to the network. Use the Administration/Communications/Network2/CrownNet/LAN Manager/Printer Name menu to enter the name of the printer.

- » **Note:** *The name can be up to 16 characters long. Spaces and lowercase characters are not allowed. Underscore characters (_) are allowed to simulate multiword names (for example, PRODUCT_MKTG).*

2 You're now ready to print.

From this point, you'll probably perform most printing tasks from your application. For specific information, check the printing section in your application documentation.

For information on print media types and sizes, see chapter 2, "Print Media," in the *Reference manual*.

NetWare Interface Configuration (Netware 3.x)

Unless you want to use the default settings, use the following procedure to name the file and print servers. These names must be unique.

- » **Note:** *In CrownAdmin, the printer shows up as QMS_xxxx_Print_System_hardwareaddress, where xxxx is the printer model number and hardwareaddress is the printer's hardware address as found on the printer start-up page. This address will be blank until the interface has been reset following installation.*

Configure the Interface

- 1 In the Administration/Communications/Network2/CrownNet/NetWare/Config PServer/File Srv Name[1], File Srv Name[2], and File Srv Name[3] menus, enter the name of the target file server (primary 3.x configuration server).

- » **Note:** *The three File Srv Name[x] menus allow you to identify 1 file server with a name up to 47 characters long. (Up to 16 characters can be entered in each of the 3 menus). You cannot use these 3 menus to identify 3 file servers. Up to 16 file servers are supported. To enter the 15 other file server names, use CrownAdmin 3.*

Spaces and lowercase characters are not allowed within file server names. However, underscore characters (_) are allowed to simulate multiword names (for example, PUBS_SERVER). At the printer control panel only, a space must be used following the last character of the file server name to end the name. For example, the file server name

FIRSTGROUP_GROUPS_BLUE_TEAM_TEAMS_CRC_QMS

is 42 characters long, and must be entered as follows:

```
FILE SRV NAME[1]
FIRST_GROUP_GROU

FILE SRV NAME[2]
PS_BLUE_TEAM_TEA

FILE SRV NAME[3]
MS_CRC_QMS<space>
```

where <space> is the space character.

- 2 In the Administration/Communications/Network2/CrownNet/NetWare/Config PServer/PServer Name[1], PServer Name[2], and PServer Name[3] menus, enter the name of the bindery print server.

- » **Note:** *The three PServer Name[x] menus allow you to identify one print server with a name up to 47 characters long. (Up to 16 characters can be entered in each of the 3 menus). You cannot use these 3 menus to identify 3 print servers.*

Configure the Interface

Spaces and lowercase characters are not allowed in print server names. However, underscore characters (_) are allowed to simulate multiword names (for example, PUBS_PSERVER). At the printer control panel only, a space must be used following the last character of the print server name to end the name. For example, the print server name

FIRSTGROUP_GROUPS_BLUE_TEAM_TEAMS_CRC_QMS

is 42 characters long, and must be entered as follows:

```
PSERVER NAME[ 1 ]
FIRST_GROUP_GROU

PSERVER NAME[ 2 ]
PS_BLUE_TEAM_TEA

PSERVER NAME[ 3 ]
MS_CRC_QMS<space>
```

where <space> is the space character.

- 3 In the Administration/Communications/Network2/CrownNet/NetWare/RN Printer#1/Printer Slot # menu, enter the printer slot number.**
 - » **Note:** *This number must match the slot number chosen in the Printer Configuration submenu of the Print Server Configuration menu in the NetWare PCONSOLE utility.*
- 4 In the Administration/Communications/Network2/CrownNet/NetWare/RN Printer#1/PServer Name[1], PServer Name[2], and PServer Name[3] menus, enter the name of the print server.**
 - » **Note:** *The three PServer Name[x] menus allow you to identify 1 print server with a name up to 47 characters long. (Up to 16 characters can be entered in each of the 3 menus). You cannot use these 3 menus to identify 3 print servers.*

Spaces and lowercase characters are not allowed. However, underscore characters (_) are allowed to simulate multiword names (for example, PUBS_PSERVER). At the printer control panel only, a space must be used following the last character of

Configure the Interface

the print server name to end the name. For example, the print server name

FIRSTGROUP_GROUPS_BLUE_TEAM_TEAMS_CRC_QMS

is 42 characters long, and must be entered as follows:

```
PSEVER NAME[ 1 ]
FIRST_GROUP_GROU

PSEVER NAME[ 2 ]
PS_BLUE_TEAM_TEA

PSEVER NAME[ 3 ]
MS_CRC_QMS<space>
```

where <space> is the space character.

- 5 Reset the CrownNet interface by using the Administration/Communications/Network2/CrownNet/Common/Soft Reset menu.**

- 6 You're now ready to print.**

From this point, you'll probably perform most printing tasks from your application. For specific information, check the printing section in your application documentation.

For information on print media types and sizes, see chapter 2, "Print Media," in the *Reference manual*.

NetWare Interface Configuration (Netware 4.x)

Unless you want to use the default settings, use the following procedure to name the file and print servers. These names must be unique.

- » **Note:** *In CrownAdmin, the printer shows up as QMS-xxxx-Print-System-hardwareaddress, where xxxx is the printer model number and hardwareaddress is the printer's hardware address as found on the printer start-up page.*

- 1 In the Administration/Communications/Network2/CrownNet/NetWare/Config PServer/PServer Context[1], PServer Context[2], and PServer Context[3] menus, enter the name of the configuration file server and print server context.

» **Note:** *The three PServer Context[x] menus allow you to identify the name of the NDS configuration file server and the print server context.*

The format for the option is

- File server name
- Space
- Print server context

For example, if the configuration file server name is QMS-4 and the print server context is PRINTSERV2.SALES.QMS, you would enter:

QMS-4 PRINTSERV2.SALES.QMS

» **Note:** *Make sure to put a space between the file server name (QMS-4) and the print server context (PRINTSERV2.SALES.QMS).*

Up to 16 characters can be entered in the Pserver Context[1] field, and additional 16 characters in Pserver Context[2] field, and 16 characters in the Pserver Context[3] field.

» **Note:** *If you want to assign more than 14 characters to the file server name you must use CrownAdmin 3 to enter the name.*

- 2 **Reset the CrownNet interface by using the Administration/Communications/Network2/CrownNet/Common/Soft Reset menu.**

- 3 **You're now ready to print.**

From this point, you'll probably perform most printing tasks from your application. For specific information, check the printing section in your application documentation.

For information on print media types and sizes, see chapter 2, "Print Media," in the *Reference manual*.

TCP/IP Interface Configuration

- 1 If necessary, in the Administration/Communications/Network2/CrownNet/TCPIP/Internet Address menu, enter the printer's Internet address.**

The factory default Internet address is 161.033.128.024.

- » **Note:** *Only the IP address needs to be entered. It is not necessary to enter the subnet mask.*

- 2 If necessary, in the Administration/Communications/Network2/CrownNet/TCPIP/Default Router menu enter the Internet address of the default router.**

The factory default router address is 000.000.000.000.

- 3 If necessary, in the Administration/Communications/Network2/CrownNet/TCPIP/Subnet Mask menu enter the printer's subnet mask.**

The default subnet mask is 000.000.000.000. This setting provides automatic sensing of gateways. If you identify a subnet mask, automatic sensing is disabled.

- 4 You're now ready to print.**

From this point, you'll probably perform most printing tasks from your application. For specific information, check the printing section in your application documentation.

For information on print media types and sizes, see chapter 2, "Print Media," in the *Reference manual*.

Configure the Network

Unless you are using TCP/IP, it is not necessary to do this right now. You can configure the network after the printer is up and running.

For complete instructions, refer to the *QMS CrownNet Setup Guide*.

TCP/IP NetWork Configuration

- 1 Log on the UNIX system as root.
- 2 Edit the system host table by adding the following line to the */etc/hosts* file:

```
internetaddress hostname
```

where *internetaddress* is the Internet address of the printer (Administration/Communications/Network2/CrownNet/TCPIP/Internet Address menu) and *hostname* is the name of the host.

- 3 If necessary, set the hardware address.

▲ **Caution:** *We strongly recommend that you do not change the hardware address.*

- If you're working on a system other than a UNIX system, set the hardware address through the printer control panel.
- If you're working on a UNIX system, send the hardware address to the print server by typing

```
arp -s hostname hardwareaddress temp␣  
ping hostname␣
```

where *hostname* is the name of the host and *hardwareaddress* is the hardware address of the printer (in the form *##.##.##.##* as found on the printer start-up page).

» **Note:** *You can also send the hardware address of a UNIX system through the BOOTP and RARP utilities.*

Install the QMS CrownNet Print Utility or the QMS Network Print Monitor

It is not necessary to install these right now. You can do this after the printer is up and printing.

For complete instructions, refer to the *QMS CrownNet Setup Guide*, *QMS Network Print Monitor for Windows NT Administrator's Guide*, or *QMS Network Print Monitor for Windows 95 Administrator's Guide*.

Where To Go From Here

In addition to this chapter, the following documentation contains information you may need:

- *QMS CrownNet Setup Guide*—Contains detailed setup information.
- *QMS CrownNet System Administrator's Guide*—Provides detailed configuration and utility information.
- CrownAdmin 3 on-line help—Contains detailed information on using CrownAdmin 3. Choose Contents from the Help menu in the main CrownAdmin 3 window (or choose any Help button) to access the on-line user's guide.
- CrownNet Print Utility on-line help—Contains detailed information on using CrownNet Print Utility.
- *QMS Crown Remote Console User's Guide*—Explains how to use Remote Console to control printing from a workstation anywhere on the network.
- Your network documentation—Contains information on printing.

- *QMS Network Print Monitor Administrator's Guide*—Contains detailed information on using the QMS Network Print Monitor for Windows NT.
- QMS Network Print Monitor on-line help—Contains detailed information on using the QMS Network Print Monitor for Windows NT.
- *Network Print Monitor for Windows 95 Administrator's Guide*—Contains detailed information on using the QMS Network Print Monitor for Windows 95.
- QMS Network Print Monitor for Windows 95 on-line help—Contains detailed information on using the QMS Network Print Monitor for Windows 95.

If You Have Trouble

If you have trouble connecting and configuring your Ethernet interface, refer to the “CrownNet Problems” section of chapter 8, “Troubleshooting,” of the *Operation* manual.

What's Next?

Now that you've connected your printer to an Ethernet network, continue with chapter 6, “Using the Control Panel,” in this manual to learn about the printer's control panel keys, indicators, and message window.



5

Connecting to a Macintosh

In This Chapter . . .

- “Introduction” on page 5-2
- “Making the Connection” on page 5-3
- “Macintosh Printing Software” on page 5-5
- “Printing from the Macintosh” on page 5-9
- “If You Have Trouble” on page 5-9
- “What’s Next?” on page 5-9

Introduction

This chapter describes how to connect your printer to a Macintosh via LocalTalk port.

- » **Note:** *If you're connecting to a Macintosh through an Ethernet network, refer to chapter 4, "Connecting to an Ethernet Network."*

Overview

- 1 Turn off both the printer and the Macintosh.**
- 2 Install an optional LocalTalk interface card in the printer.**

A LocalTalk interface is not standard on your printer. You need to install an optional LocalTalk interface card. See chapter 3, "Interfaces and Daughterboards," of the *Options* manual for installation information.

- 3 Connect the printer to the Macintosh.**
- 4 Turn on both the printer and the Macintosh.**
- 5 Install a printer driver.**

See "Macintosh Printing Software" on page 5-5.

- 6 Now you're ready to print.**

Making the Connection

What You Need for the Connection

Interface cables are not included with your printer. If you're replacing a printer, you may already have the necessary cables. If not, you'll need to purchase the cables from your QMS vendor or a local computer store.

To connect your printer to a single Macintosh, you must have

- An optional LocalTalk interface. See chapter 3, "Interfaces and Daughterboards," of the *Options* manual for installation information.
- Two PhoneNET-type transformer boxes: one with a DIN-8 connector for the printer port and one with a DIN-8 connector for the Macintosh port
- An RJ11 (telephone) cable
- Two terminating resistors to close the open sockets left in the transformer boxes after the connection is made

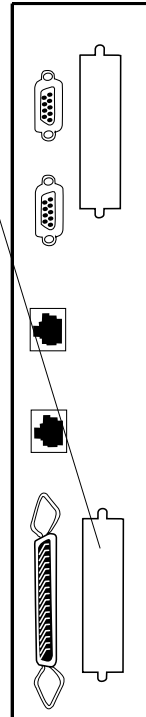
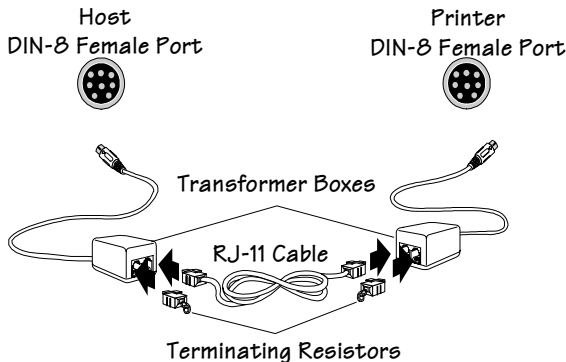
If you're connecting the printer to an AppleTalk network with more than one Macintosh, see your PhoneNET and Macintosh documentation for more information.

Making the Connection

Making the Connection

- 1 Turn off both the printer and the Macintosh.
- 2 Plug the connector from one transformer box into the printer's optional LocalTalk port (installed in the slot marked "Option").
- 3 Plug the connector from the other transformer box into the Macintosh printer port.
- 4 Connect the two transformer boxes with the telephone cable.
- 5 Put terminating resistors in all open sockets in the connector boxes.

This ensures proper communication and helps speed up transmission.



- 6 Turn on the printer.

A start-up page should print. If it doesn't, refer to chapter 8, "Troubleshooting," of the *Operation* manual.

Macintosh Printing Software

If you're replacing a PostScript printer, you can probably start printing now with the printing software already in place. Refer to your application documentation for instructions on sending documents to the printer.

However, if you want to be able to use all your printer's special features or if you've never printed to a PostScript printer before, we recommend you take a few minutes to make sure you have the following printing software installed:

- QMS Macintosh Utilities
- A PostScript printer driver
- Application-specific printer files

Installing Macintosh Utilities

QMS Macintosh Utilities are utilities for controlling the printer from the Macintosh. It is included on the *QMS Software Utilities* CD-ROM shipped with your printer.

- 1 **With the Macintosh on, insert the *QMS Software Utilities* CD-ROM in your Macintosh's CD-ROM drive.**
- 2 **If necessary, double-click the CD-ROM icon to display the CD-ROM contents.**
- 3 **Double-click the PLATFORM folder icon to display the folder contents.**
- 4 **Double-click the MAC folder icon to display the folder contents.**
- 5 **Double-click the UTILS folder icon to display the folder contents.**
- 6 **Double-click the UTILS installer icon.**

7 In the dialog box that appears, verify the Install location.

To change the Install Location you can either use the drop-down list box to display and select the appropriate disk, or you can choose the Switch Disk button to scroll through the available disks.

8 Also in the dialog box, choose Easy Install or Custom Install.

■ **Easy Install** automatically installs all of the utilities, including the PDF, PDX, and PPD files and the screen fonts.

■ **Custom Install** allows you to choose the options you want to install. The amount of available space on your Macintosh hard disk and the amount of space necessary for all of the selected options are indicated near the bottom of the window.

» **Note:** *If you're using Custom Install, you can click the small icon (it looks like a capital I inside a square) to the right of each install option for more information about that option.*

9 Choose the Install button to begin.

Installation takes approximately one minute. The Installer places all of the options inside a newly created PSExec folder in the location you chose in step 7.

10 When the installation is finished, you're prompted to choose either Continue to install additional options from the Custom installation option or Quit to exit the Utils installer program.

Installing Macintosh Printer Drivers

To be able to use all your printer's special features, you need to take a few minutes to load the following software:

- QMS *magicolor* 2 PPD file

See the following section, "Installing the QMS *magicolor* 2 PPD," for information.

- Printer files for Aldus/Adobe PageMaker, Aldus/MacroMedia FreeHand, Adobe PrePrint, Adobe Separator, or QuarkXPress

See "Application Notes" on page 5-8 for information.

Installing the QMS magicolor 2 PPD

Although the QMS *magicolor 2* supports LaserWriter 6, 7, and 8, we recommend using LaserWriter 8.

- » **Note:** *The LaserWriter driver is provided with your Macintosh system software. All Macintosh users on a network must use the same version of the LaserWriter and Laser Prep files to run correctly. For example, if the network has a mixture of LaserWriter 6.x, 7.x, and/or 8.x, the printer will experience frequent reinitialization problems. To check the version number, select the LaserWriter icon and then hold down the Command key and press the I (letter I) key. The driver version number appears in the Info window on the second-to-last line. LaserWriter 7.x and 8.x do not require a Laser Prep file to work correctly with your printer. The Laser Prep information is located within the LaserWriter driver itself.*

The QMS *magicolor 2* PPD (a printer description file) is provided with your printer so you can take advantage of special printer features while using the LaserWriter driver.

1 If you haven't already, install a LaserWriter driver.

Refer to your Macintosh documentation.

2 If you haven't already, follow the instructions given above in "Installing Macintosh Utilities" on page 5-5.

3 If you don't already have one, create a Printer Descriptions folder on your Macintosh hard disk:

System 8 and 7 users—Create a folder called Printer Descriptions inside the Extensions folder inside the System Folder.

System 6 users—Create a folder called Printer Descriptions inside the System Folder.

4 Open the PSExec *f* folder you created in "Installing Macintosh Utilities" on page 5-5.

5 Open the 4.x PPD's folder.

6 Select the QMS *magicolor 2* printer description file and drag it to the Printer Descriptions folder on your Macintosh hard disk.

- 7 From the Apple menu, choose Chooser.**
- 8 In the Chooser window, select the LaserWriter 8.x icon, and then select the QMS *magicolor 2*.**
- 9 Choose the Setup button.**

This causes the LaserWriter to query the printer and automatically choose the appropriate PPD.

- 10 Exit from the Chooser.**

Now, when you go into your application, you can access QMS printing options by choosing Options in your application's Print dialog box.

Application Notes

If you use any of these applications, install the appropriate printer description file (PPD, PDX, and/or PDF) as described below:

- 1 If you haven't already, follow the instructions given above in "Installing Macintosh Utilities" on page 5-5 and in "Installing the QMS *magicolor 2* PPD" on page 5-7.**
- 2 Install the appropriate printer description file(s) for your application from the PSExec *f* folder:**
 - **If you use Adobe Separator**, install the PPD file. Your Separator documentation explains where to put it.
 - **If you use Adobe PageMaker 5.x**, install the version 4.x PPD in the Printer Descriptions folder.
 - **If you use Macromedia FreeHand 4.x**, install the version 4.x PPD in the Printer Descriptions folder.
 - **If you use QuarkXPress 3.3 or later**, you can use the QMS *magicolor 2* PPD. However, **if you use an earlier version**, install the QMS *magicolor 2* PDF in the QuarkXPress folder in the PDF folder. To select the PDF, go to Quark's Page Setup dialog box. Under Printer Type, select the QMS *magicolor 2* PDF and select the Use Printer Default Screen Angles checkbox. Also in Quark's Page Setup dialog box, make sure None is selected for the EFI Color profile option.

Printing from the Macintosh

You're now ready to print from your Macintosh. From this point, you'll probably perform most printing tasks from your application. For specific information, check the printing section in your application documentation. For information on print media types and sizes, see chapter 2, "Print Media," in the *Reference* guide.

A Note for Users of Aldus Applications

If you use an Aldus application (or one that used to be owned by Aldus, such as PageMaker or FreeHand), when you want to print, hold down the Option key while selecting Print from the File menu. This brings up the LaserWriter windows, which contains the QMS printing options. Normally, Aldus applications bypass LaserWriter and use an Aldus printer driver, which prevents you from accessing QMS printing options.

A Note for Users of Adobe PhotoShop

If you use Adobe PhotoShop, go to PhotoShop's Page Setup dialog box, and select Use Printer's Default Screen under the Screens option. This allows your choices in the QMS driver to take effect.

If You Have Trouble

If you have trouble connecting and configuring your Macintosh interface, refer to chapter 8, "Troubleshooting," in the *Operation* manual for troubleshooting tips.

What's Next?

Now that you've connected your printer to a Macintosh interface, continue with chapter 6, "Using the Control Panel," to learn about the printer's control panel keys, indicators, and message window.



6

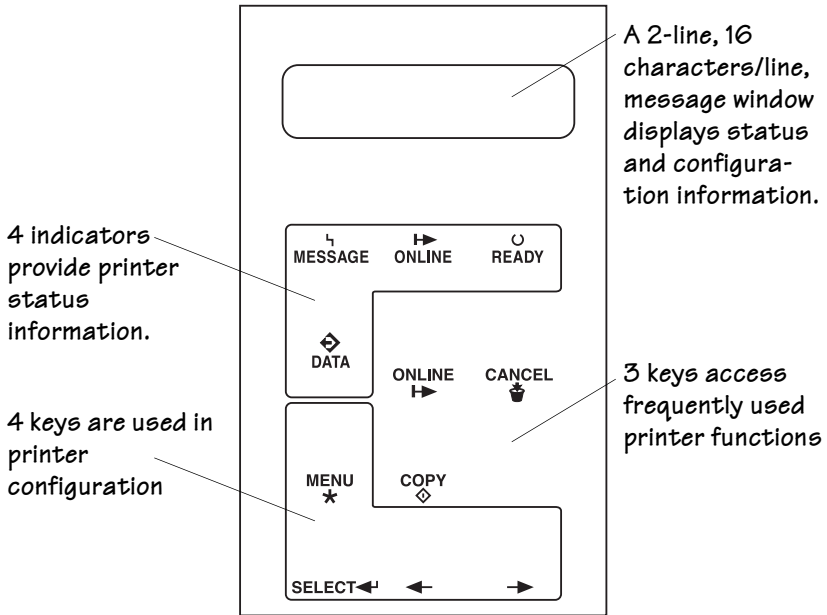
Using the Control Panel

In This Chapter . . .

- “Introduction” on page 6-2
- “Message Window” on page 6-2
- “Control Panel Indicators” on page 6-3
- “Control Panel Keys” on page 6-4
- “What’s Next?” on page 6-6

Introduction

The control panel, located on the front of the printer, allows you to direct the printer's operation. In addition, it displays the current status of the printer, including any condition that needs your attention.



Message Window




The control panel message window provides status and configuration information. Status messages are listed in chapter 8, "Troubleshooting," of the *Operation* manual. Printer configuration is explained in chapter 4, "Printer Configuration," of the *Reference* manual.

Setting the Message Window Language


Menu	Administration/Miscellaneous/Keypad Language
Purpose	Change the message window language.
Choices	English, French, German, Spanish
Default	English
Notes	The printer must be restarted for changes to this menu to take effect. You can either let the printer restart automatically after you save the change and exit from the configuration menu, or you can wait for the change to take effect the next time you manually turn on the printer.

Control Panel Indicators

Four indicators display printer status information.

Indicator	Off	On	Blinking
 READY	The printer is not ready to print.	The printer has finished warming up and is ready to print.	The printer is warming up, or the printer is in Energy Saver mode.
 ONLINE	The printer is off line and not ready to accept data.	The printer is on line and ready to accept data.	
 MESSAGE	No problem.	The printer requires operator attention (usually accompanied by a status message in the message window).	



Control Panel Keys

Indicator	Off	On	Blinking
 DATA	The printer is not receiving data.	The printer is receiving data through one or more of its simultaneous interfaces (usually accompanied by a status message in the message window).	


Control Panel Keys

Online, Copy, and Cancel Keys

These keys access frequently used printer functions.





Key	Function
ONLINE 	<p>The Online key switches the printer between on-line to off-line status.</p> <p>When off line, the printer continues printing until it has finished all jobs received, but it doesn't accept any new data. Although jobs continue to compile and print using the data already received, a job may be interrupted.</p> <p>If a remote console has taken the printer off line, pressing the Online key on the control panel will not take effect until the console puts the printer back on line.</p> <p>» Note: <i>You must take the printer off line before using all other keys except the Cancel and Copy keys.</i></p>
COPY 	<p>When CrownCopy and the copy key are installed, this key allows you to access the Copy menu to print a copy or configure CrownCopy. You can use this key while the printer is on line.</p>

Control Panel Keys

Key	Function
CANCEL 	<p>The Cancel key allows you to cancel one or more print jobs. (See chapter 3, “Advanced Printing Features,” in the <i>Operation</i> manual for complete information.) You can use this key while the printer is on line.</p> <p>» Note: <i>If you press the Cancel key by mistake, or if you decide not to cancel a print job after pressing this key, press the Menu key to “cancel” the Cancel key’s function.</i></p>

Menu, Select, Previous, and Next Keys

The Menu, Select, Previous, and Next keys are used in printer configuration (explained in detail in chapter 4, “Printer Configuration,” of the *Reference* manual). Before using any of these keys, press the Online key to take the printer off line.

Key	Function
MENU 	<p>The Menu key provides access to the configuration menu. First press the Online key to take the printer off line, and then press the Menu key to access the configuration menu. When you’re changing the printer configuration, press this key to cancel a change (before pressing the Select keys), to return to a previous menu, or to return to a previous character when entering character information.</p>
SELECT 	<p>Press the Select key to access a menu or to choose a displayed menu option.</p>
	<p>Press the Previous key to return to the previous selection or option for the current menu. When changing character information, use this key to return to the previous choice for the current input character.</p>
	<p>Press the Next key to advance to the next selection or option in the current menu. When changing character information, use this key to advance to the next choice for the current input character.</p>

What's Next?

What's Next?

Now you're ready to print. For more information on the day-to-day operation of your printer, refer to the *Operation* manual. For more technical information, refer to the *Reference* manual.



A

QMS Customer Support

In This Appendix . . .

- “Sources of Support” on page A-2
- “QMS World-wide Offices” on page A-5

Sources of Support

Several sources of help and information are available, depending on the type of help you need:

Your QMS Vendor

Your local vendor (the one from whom you bought the printer) may be best equipped to help you. Your vendor has specially trained service technicians available to answer questions, and the equipment to analyze your printer problems.

Your Application Vendor

Often, "printing" problems have more to do with the application being used than with the printer. In this case, the application manufacturer is the best source of help.

Q-FAX

Q-FAX, a QMS information retrieval service, provides application notes, technical support notes on common printing problems, and information about printer specifications, options, accessories, consumables, and prices.

In the United States and Canada, call (800) 633-7213 to reach Q-FAX. In all other countries, call (334) 633-3850. Have your fax number handy when you call (or place the call from your fax machine's handset).

You can choose to have either a directory (a list of currently available documents) or a specific document sent to you. The first time you call, request the directory (press 2 on your phone or fax keypad when prompted). Then call back to request specific documents. You can order up to three documents per call.

CompuServe

Through CompuServe, you ask general (non-technical) questions, share information with other users, and access printing information and programs. When you use CompuServe, type `go qmsprint` to go directly to the forum where QMS is located. The QMS library section contains application notes, printer drivers, utilities, technical information, and announcement files.

Internet

The QMS server provides access to technical reports, new product announcements, a trade show schedule, and other general information about QMS.

If you have access to the World Wide Web, you can view the QMS home page at <http://www.qms.com/>. The QMS ftp resource is <ftp.qms.com>.

QMS Customer Response Center (CRC)

You can contact the QMS Customer Response Center (CRC) in three different ways:

- **Telephone**—You can call the CRC at (334) 633-4500 (US) Monday–Friday, 7:00 am–6:00 pm, Central Time.
- » **Note:** *If you call for assistance, have the following information ready so our technicians can help you more quickly:*
 - ☑ Your phone number, fax number, and shipping address
 - ☑ A description of the problem
 - ☑ The printer model
 - ☑ The type of host computer you're using
 - ☑ The type and version of operating system you're using
 - ☑ The interface you're using, and, if serial, the protocol (for example, XON/XOFF)
 - ☑ The application and version you're using
 - ☑ The emulation you're using
 - ☑ Your printer firmware version (listed on the status/start-up pages)
- **Fax**—You can fax questions to the CRC at (334) 633-3716 (US). Provide the same information as listed above, and indicate whether you would like a faxed or a phoned reply.
- **Internet**—If you have access to the World Wide Web, you can access the CRC through the QMS home page at <http://www.qms.com/>

QMS World-wide Offices

QMS United States and Latin America

General Contact

1 (334) 633-4300

Fax 1 (334) 633-4866

Email info@qms.com

Internet <http://www.qms.com>

Information on QMS products, supplies, and accessories, and on the authorized QMS remarketer or service provider nearest you

1 (800) 523-2696

Customer Response Center (CRC)

Technical Assistance

1 (334) 633-4500

7:00 am–6:00 pm Central Time

Fax 1 (334) 633-3716

Internet <http://www.qms.com>

Latin America Fax

1 (334) 639-3347

National Service

Service Information, Installation, and Maintenance Pricing

1 (800) 762-8894

On-Site Service and Depot Repair Information

1 (800) 858-1597

7:00 am–7:00 pm Central Time

Spare Parts Ordering and Information

1 (334) 633-4300 x2530

8:00 am–5:00 pm Central Time

QMS Canada

General Contact

1 (514) 333-5940

Fax 1 (514) 333-5949

Supplies and Accessories

1 (800) 268-0343 x223

National Service

On-Site Service and Depot Repair Information

1 (800) 268-4969

8:30 am–7:00 pm Eastern Time

Spare Parts Ordering and Information

1 (905) 206-9234 x238

8:30 am–5:00 pm Eastern Time

QMS in Japan

General Contact

(+81)-3 3779-9600

Fax (+81)-3 3779-9650

Internet <http://www.qmsj.co.jp>

QMS in Latin America

General Contact

Cra 43 DD#8-42

Officina 201

Medellin, Colombia

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QMS South Africa	Saskay House Unit 24 Sunninghill Business Park Peltier Road, Sunninghill, Johannesburg Republic of South Africa (+27) 11-807 6957 Fax (+27) 11-807 6960
QMS UK United Kingdom and Ireland	Old Bridge House, The Hythe Staines, Middlesex TW18 3JF United Kingdom (+44) 1784-442255 Fax (+44) 1784-461641



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