



2560 Print System Getting Started

1800532-001B

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Contents

1 Introduction

Introduction	1-2
Registering the Printer	1-2
Requirements	1-2
Power Requirements	1-2
Energy Star Compliance	1-3
Space Requirements	1-3
Installation Precautions	1-4
Power Source Precautions	1-4
Grounding	1-4
Operational Precautions	1-5
Operating Environment	1-5
Printer Usage	1-5

Moving the Printer	1-7
About This Manual	1-8
Product Documentation	1-9
Related Documentation	1-10
Manuals on the CD-ROM	1-10
Typographic Conventions	1-12

2 Unpacking and Setting Up

Introduction	2-2
Checking Shipment Contents	2-2
Finding a Good Location	2-3
Unpacking the Printer	2-4
Loading the Media Trays	2-5
Preparing the Media	2-5
Loading Media	2-6
Loading Paper into the Multipurpose Tray	2-6
Loading Paper into the Main Tray	2-8
Installing a Toner Cartridge	2-10
Plugging in and Turning on the Printer	2-13

3 Connecting the Printer to a Computer

Introduction	3-2
Making a Parallel Connection	3-2
Parallel Interface Requirements	3-2
How to Choose a Parallel Cable	3-2
Making the Connection	3-3

Making a Serial Connection	3-4
Serial Requirements 3-4	
How to Choose a Serial Cable 3-4	
Making the Connection 3-5	

4 Connecting the Printer to a Network

Introduction	4-2
Connecting to a Network	4-2
Configuring the Interface/Network	4-3
EtherTalk 4-4	
IPX/SPX 4-4	
TCP/IP 4-5	

5 Installing and Using Print Utilities

Introduction	5-2
PC Printing Software	5-2
Windows Operating Systems 5-2	
Non-Windows Operating Systems 5-3	
Installing a QMS Printer Driver	5-3
Minimum System Requirements 5-3	
Installation 5-4	
Macintosh Printing Software	5-5
Installing Macintosh PPDs 5-5	
CrownView	5-6
Accessing the Printer's CrownView Web Page 5-7	

CrownAdmin	5-8
Application Notes	5-9
Adobe Illustrator 5-9	
Adobe Photoshop 5-9	
Aldus Persuasion 5-9	
CorelDRAW 5-9	
Microsoft Excel 5-10	
Other Applications 5-10	

A QMS Customer Support

Sources of Support	A-2
Your Vendor A-2	
Your Application Vendor A-2	
Internet A-2	
Technical Support A-3	
QMS World-wide Offices	A-4
QMS United States and Latin America A-4	
QMS Canada A-5	
QMS Japan A-5	
QMS EMEA A-5	

Index



1

Introduction

In This Chapter . . .

- “Introduction” on page 1-2
 - “Registering the Printer” on page 1-2
 - “Requirements” on page 1-2
 - “Installation Precautions” on page 1-4
 - “Operational Precautions” on page 1-5
 - “Moving the Printer” on page 1-7
 - “About This Manual” on page 1-8
 - “Product Documentation” on page 1-9
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Introduction

This chapter discusses general information you should know before setting up the printer, such as printer registration, power requirements, and location requirements. This chapter also documents the safety precautions associated with setting up and using the printer.

Registering the Printer

QMS is committed to developing print systems that offer you flexible, efficient solutions, so we're interested in knowing how you plan to use your printer. You can register your printer in one of two ways:

- **Internet**—Access the registration form at <http://www.qms.com/support/prodreg>
- **Mail**—Fill out and send in the warranty card included with the printer

Requirements

Power Requirements

Your printer requires a properly grounded AC outlet with a power range of $\pm 10\%$ of the rated line voltage (100/120 V or 230 V). Make sure that the capacity of the electrical outlet is at least 1.2 times that used by the printer. Noise-generating equipment should not be connected to the same electrical outlet as the printer.

The following are the power source requirements for this printer:

- Power source: 100, 120, 230 V $\pm 10\%$ at 60 Hz ± 3 Hz
- Voltage fluctuation: 100, 120, 230 V $\pm 10\%$
- Frequency fluctuation: $\pm 0.3\%$
- Current consumption: 100 V—12.5 A, 120 V—11.0A, 230V—6.0 A

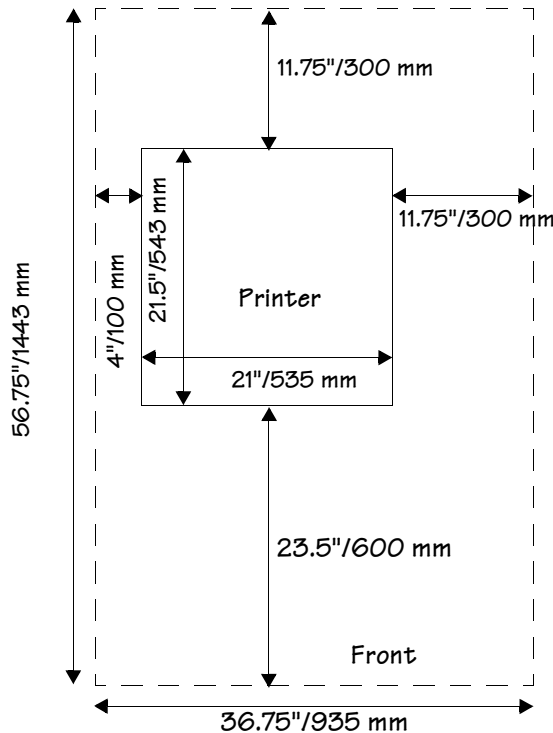
Energy Star Compliance

Certain models of the printer are compliant with US Environmental Protection Agency (EPA) Energy Star regulations. After a specified period of inactivity, the printer changes to a low-power state (the engine remains on, but the fuser turns off). When a print job is received, the printer returns to normal power within 60 seconds.



Space Requirements

Be sure to provide space around the printer to ensure easy printer operation, paper and toner replacement, and maintenance. The illustration below shows the standard space requirements for the printer.



Installation Precautions

-
- ◆ **Caution:** *Note the following important precautions before plugging in the printer.*
-

Power Source Precautions

Follow these precautions when connecting the printer to its power source:

- Use a power source with minimal voltage and frequency fluctuation.
- Use only an outlet that is rated for the voltage capacity specified for this printer. Be sure to plug the power cord all the way into the outlet. The outlet should be located near the printer and easily accessible so you can unplug the power cord immediately should any problem occur.
- If any other electrical equipment is plugged into the same outlet, make sure that the capacity of the outlet is not exceeded.
- If you use an extension cord, make sure its capacity is greater than the power consumption of the printer. Using an extension cord with a lower capacity creates the danger of fire.
- Never use a multiple socket to connect other appliances or machines to the same outlet being used to power the printer.

Grounding

To guard against the danger of electrical shock, ground the printer by connecting the grounding wire to either the ground terminal of the electrical outlet you are plugging in to or to a grounding contact that complies with local electrical standards in your area.

-
- ◆ **Caution:** *Never connect the grounding wire to a gas pipe, the grounding wire for a telephone, or a water pipe.*
-

Operational Precautions

-
- ◆ **Caution:** *Note the following important precautions whenever using the printer.*
-

Operating Environment

The following describes the operating environment required when using the printer:

- Temperature: 10° C to 35° C (50° F to 95° F) with fluctuation of 10° C (18° F) per hour
 - Humidity: 15% to 85% with fluctuation of 20% per hour
- » **Note:** *Be sure to locate the printer in a well-ventilated location. A minimal amount of ozone is generated during normal operation of this printer. Because of this, an unpleasant odor may result when the printer is used for extensive printing in a poorly ventilated area.*

Printer Usage

The following lists precautions to take when using the printer:

- Never turn the printer off or open any of its covers while it is printing.
- Never locate any object that generates magnetic force, flammable gas, or flammable liquid near the printer.
- When unplugging the power cord, always grasp the plug and never pull on the cord. A damaged cord creates the danger of fire or electrical shock.
- Never touch the power cord when your hands are wet. Doing so creates the danger of electrical shock.
- Always unplug the power cord before moving the printer. Failure to do so can damage the power cord, creating the danger of fire or electrical shock.
- Always unplug the power cord if you do not plan to use the printer for a long time.
- Never perform any operation or attempt to handle the printer in any way that is not expressly described in the *Getting Started*, *Operation*, or *Options* manuals. The interior of the printer contains high-voltage circuitry, which creates the danger of electrical shock when exposed.

Operational Precautions

- Never place heavy objects on the power cord, pull on it, or bend it. Doing so creates the danger of fire or electrical shock.
 - Always make sure the printer is not placed on the electrical cord or the communications cables of any other electrical equipment. Also make sure that cords and cables do not get into the printer's mechanism. Any of these conditions create the danger of malfunction and fire.
 - Always take care so that paper clips, staples, or other small pieces of metal do not get into the printer through its vents or other openings. Such objects create the danger of fire or electrical shock.
 - Do not allow water or other liquids to spill on or near the printer. Fire or electrical shock can occur should water or liquid come into contact with the printer.
 - Should liquid or any piece of metal accidentally get inside the printer, immediately turn it off, unplug the power cord, and call for service. Failure to take this immediate action creates the danger of fire or electrical shock.
 - If the printer emits unusually high amounts of heat, smoke, an unusual odor, or noise, immediately turn it off, unplug it, and call for service. Failure to take this immediate action creates the danger of fire or electrical shock.
-
- ⚠ **WARNING!:** *Never touch the copper and brass electrode that is located inside the right door and underneath the toner cartridge, as an electrical shock or printer malfunction can result.*

ACHTUNG! *Berühren Sie niemals die Metall-Elektroden, die in der Innenseite der rechten Klappe und unter der Toner cartridge angebracht sind, da Sie sonst einen elektrischen Schlag bekommen könnten oder eine Funktionsstörung des Druckers eintreten kann.*

Moving the Printer

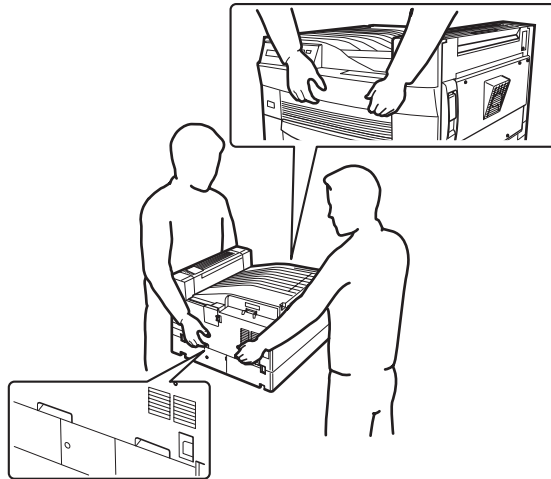
It is important to use the following guidelines whenever you move the printer:

- Before attempting to move the printer, remove the toner cartridge. Protect the toner cartridge from exposure to light by covering it with a cloth whenever it is removed from the printer.
- Remove any optional hardware components that may be installed on the printer and carry the components separately when moving the printer.
- The printer is heavy (approximately 66 lbs/30 kg). At least two people are required to lift it safely.



WARNING! Use the grips for lifting the printer, as shown in the illustration below.

ACHTUNG! Bitte die Griffe zum heben des Druckers so benutzen, wie es in der Darstellung gezeigt ist.










About This Manual

This manual contains detailed, illustrated instructions to guide you through setting up the printer. You should be computer-literate and understand the basic operation of a printer and printer driver before performing the procedures provided in this manual. You should also be familiar with the hardware and software necessary to connect a printer to a network, as well as have an understanding of interface configurations.

This manual is divided into the following sections:

1	Printer Overview	Lists things you need to know before setting up the printer, such as system requirements and safety precautions.
2	Unpacking and Setting Up	Provides instructions on setting up the printer. Information includes a checklist of your printer parts and documentation, unpacking and determining a location for the printer, loading media and a toner cartridge, and plugging in the printer.
3	Connecting the Printer to a Computer	Explains how to connect the printer to a computer via the parallel or serial port.
4	Connecting the Printer to a Network	Provides information on how to connect the printer to a network, as well as how to configure the network and the interface.
5	Installing and Using Print Utilities	Explains how to install a printer driver and other print utilities.
A	QMS Customer Support	Provides product sales, support, and service contact information.

Product Documentation

	<i>2560 Print System Installation Guide</i> (Hard copy and PDF format)	This guide contains brief, illustrated instructions that enable you to install your printer. Refer to the <i>Getting Started</i> manual for detailed instructions.
	<i>2560 Print System Installation Guide— Options</i> (Hard copy and PDF format)	This guide contains brief, illustrated information on installing optional hardware accessories. Refer to the <i>Options</i> manual for detailed instructions.
	<i>2560 Print System Getting Started</i> (Hard copy and PDF format)	You are looking at this manual now. It guides you through the process of unpacking and setting up the printer. It includes information on finding a good location for the printer, plugging it in, loading media, installing a toner cartridge, installing printer drivers, and configuring it to a host computer or network.
	<i>2560 Print System Operation</i> (Hard copy and PDF format)	This manual guides you through basic printing tasks. It includes information on the control panel; loading media; replacing a toner cartridge; handling, cleaning, and maintaining the printer; improving print quality; selecting input and output bins; duplexing; collating; and troubleshooting printer problems.
	<i>2560 Print System Options</i> (PDF format)	This manual provides information on installing optional paper-handling hardware for your printer as well as controller options.
	<i>DPO Quick Configuration Guide</i> (PDF format)	Refer to this manual for quick, illustrated instructions on configuring your network to the printer.
	<i>Print Server Card Manual</i> (PDF format)	Refer to this manual for complete setup information on the Ethernet interface. The system administrator should get the most use from this manual.

Related Documentation



Other Reference Sources

The QMS Answer Base provides free interactive online technical support 24 hours/day, 7 days/week. Go to <http://www.qms.com/support>, and then select Answer Base.

Also, don't forget that your application documentation, your host operating system documentation, and your network documentation all contain useful printing information.

Manuals on the CD-ROM

The manuals on the *2560 Print System Utilities and Documentation* CD-ROM are in Adobe Acrobat PDF format. We've also provided the Acrobat Reader and QuickTime programs on the CD-ROM. The CD-ROM insert provides installation instructions.

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.
- 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 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.

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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 manuals are also available in hard copy. Refer to appendix A, "QMS Customer Support" for purchase information.

In addition, many applications, utilities, and printer drivers on the *2560 Print System Utilities and Documentation* CD-ROM are available on alternate media. Contact your printer vendor for media availability and purchase information. Refer to appendix A, "QMS Customer Support," for sales and support locations and telephone numbers. You can also download many of these files from our World Wide Web Server at <http://www.qms.com> or our ftp resource at <ftp.qms.com>.

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, and information displayed in the printer message window.
<i>Mixed-Case Italic Courier</i>	Variable text you type; replace the italicized word(s) with information specific to your printer or computer
lowercase bold	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 or process failure.*
-

- ⚠ **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.*



2

Unpacking and Setting Up

In This Chapter . . .

- “Introduction” on page 2-2
- “Checking Shipment Contents” on page 2-2
- “Finding a Good Location” on page 2-3
- “Unpacking the Printer” on page 2-4
- “Loading the Media Trays” on page 2-5
- “Installing a Toner Cartridge” on page 2-10
- “Plugging in and Turning on the Printer” on page 2-13

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 a toner cartridge, loading the trays, and plugging in the printer.

-
- ◆ **Caution:** *Make sure you have read the installation precautions in chapter 1, “Introduction,” of this manual before setting up the printer.*
-

Checking Shipment Contents

Your shipment should contain the following parts and documentation. 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 printer vendor.

- » **Note:** *Interface cables aren't included in the shipment. If you need cables, contact your printer vendor or a local computer store.*
 - Print engine with multipurpose and universal media trays
 - Power cord
 - *2560 Print System Getting Started* (this manual), *Operation, Installation Guide, Installation Guide—Options* (all hard copies)
 - *2560 Print System Utilities and Documentation* CD-ROM
 - *Getting Started*
 - *Operation*
 - *Options*
 - *Installation Guide*
 - *Installation Guide—Options*
 - *Print Server Card Manual*
 - *DPO Quick Configuration Guide*

- Printer drivers
- Printer utilities
- Screen fonts
- Adobe Acrobat and QuickTime
- Toner cartridge
- Warranty and registration card

Finding a Good Location

Use the following safety guidelines when setting up your printer:

- Ensure that a power outlet is close and unobstructed.
- Make sure that the printer is not exposed to direct sunlight.
- Avoid areas in the direct airflow of air conditioners, heaters, or ventilators, and areas subjected to temperature and humidity extremes.
- Choose a firm, level surface where the printer will not be exposed to strong vibration.
- Do not locate the printer near curtains or other combustible objects.
- Choose an area where there is no possibility of the printer being splashed with water or other liquids.
- Choose a location that is well-ventilated.
- Make sure there is no chance of ammonia or other organic gasses being generated in the area.

Unpacking the Printer

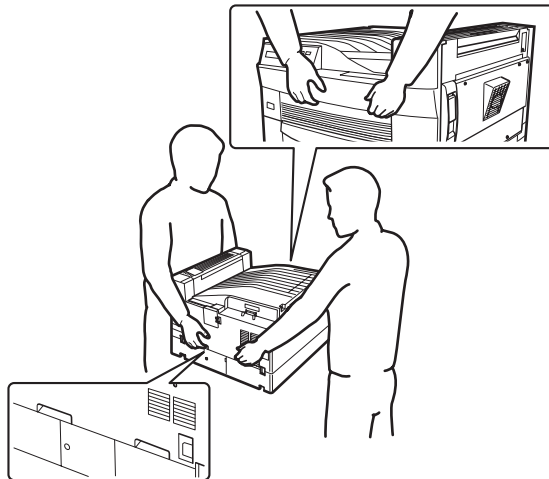
To ensure that your printer was not damaged during shipment, follow this entire procedure, including printing the start-up page.

- » **Note:** *Save the packing materials in case you ever have to move or ship the printer to a new location.*

-
- ◆ **Caution:** *If you do not remove all packing materials—plastic, cardboard, polystyrene, tape, and shipping spacers—before turning on the printer, you may damage it.*
-

1 Lift the printer out of the shipping carton.

Carrying grips are located on the front and back of the printer.

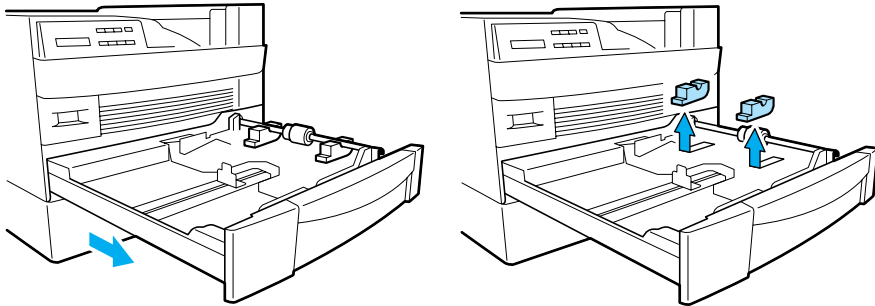


-
- **WARNING!** *The printer weighs about 66 lbs (30 kg). Two people are required to lift the printer safely.*

ACHTUNG! *Der Drucker wiegt ca. 30 kg. Sie benötigen zwei Personen, um den Drucker sicher anzuheben.*

2 Remove the protective plastic covering, polystyrene, and tape from the outside of the printer.

- 3 Remove the packing materials and tape from inside the printer and media trays.



- 4 Place the printer in its proper location.

Loading the Media Trays

The printer comes standard with a 250-sheet multipurpose tray and a 500-sheet universal tray (main tray). Use this procedure for each tray.

Preparing the Media

-
- ◆ **Caution:** *Ensure that the media size matches the tray size (for example, letter/A4 media must be loaded only when the universal tray is set to letter/A4 size). Since the media tray sends a media size signal to the printer controller, using the wrong size media causes your image to be positioned incorrectly on the page or clipped.*
-

- 1 **Unwrap the paper, pull the stack out, and then with one hand at each end of the stack, lift and hold it in a curved position.**
 - » **Note:** *Paper is packed in reams of 500 sheets. Don't unpack the paper above the printer as this might cause particles to fall into the printer components. Note the arrows on the wrapper. They show which side of the paper should be on the top when it is loaded in the tray. The printing side should be loaded face up.*
- 2 **Grip each end of the stack firmly.**

Loading the Media Trays

- 3 **Straighten the stack, and then roll the fanned sheets from side to side to get air through the sheets and prevent static buildup.**
- 4 **Take off and discard the top and bottom sheets.**

The top and bottom sheets sometimes have residual glue buildup that could cause the printer to jam.

Loading Media

Depending upon installed options, it is possible to have up to 5 different media sources: the multipurpose tray; the main tray; and up to three optional 500-sheet trays, or one 500-sheet tray and an optional 2500-sheet large-capacity tray (LCT).

Always remember that media storage conditions greatly affect print quality. Store media in its original package, and keep it out of areas subject to extreme temperatures or humidity.

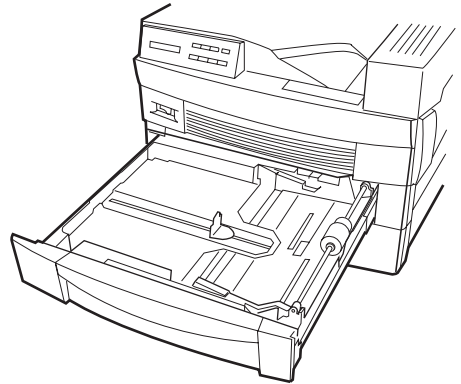
Loading Paper into the Multipurpose Tray

The multipurpose tray holds up to 250 sheets of plain/recycled paper in the following sizes:

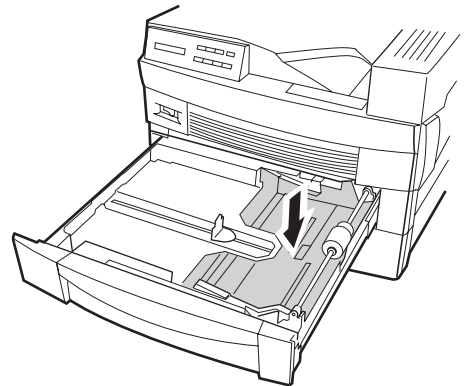
- A3
- A4
- A5
- A6
- C5 envelope
- Com 10 envelope
- Custom (user defined through printer driver)
- DL envelope
- Executive
- Folio
- Government Letter
- ISO B5
- JIS B4
- JIS B5
- Ledger
- Legal
- Letter
- Monarch envelope
- Statement

Loading the Media Trays

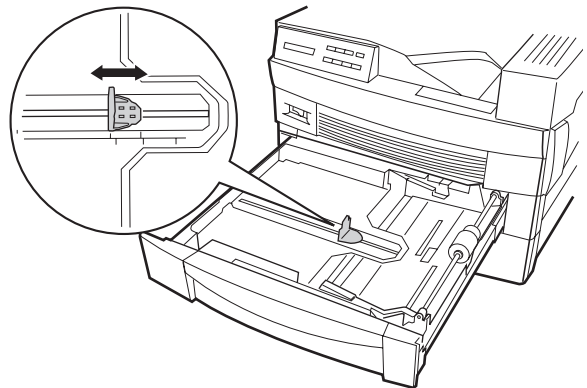
- 1 Slide open the multipurpose tray.



- 2 Press down on the media lifting plate located inside of the multipurpose tray until it clicks into place.

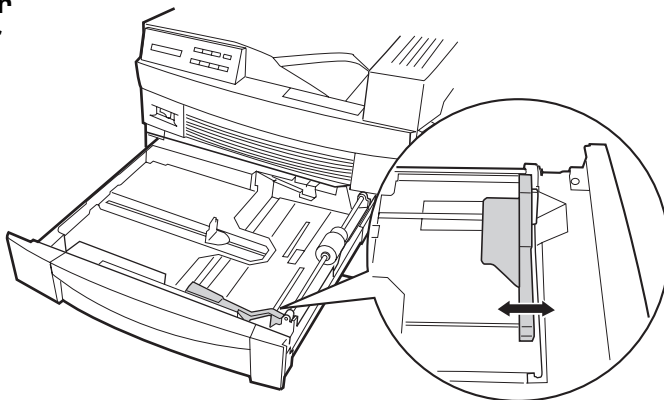


- 3 If necessary, adjust the green clip to the appropriate media size by squeezing its sides and sliding it through the runner at the bottom of the tray.

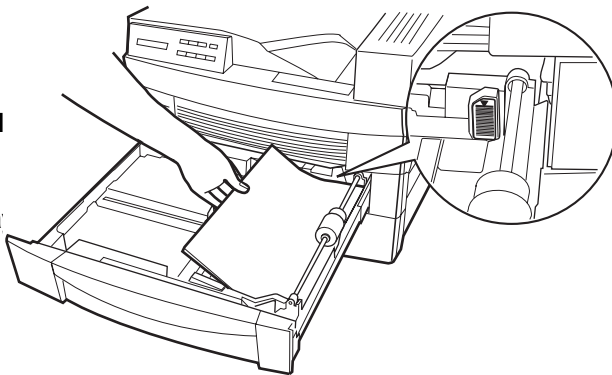


Loading the Media Trays

- 4 Press the green button located near the outer edge of the tray to adjust the media guides.



- 5 Load the proper size media within the guides.
- 6 The stack of paper that is loaded into the tray should exceed the maximum level indicator. Close the multipurpose tray.
- 7 Set the Input Options/MP Tray Paper menu to the same size media you just loaded into the multipurpose tray.



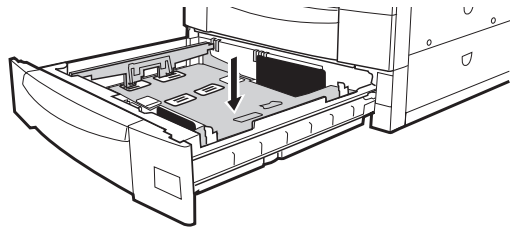
Loading Paper into the Main Tray

The main tray holds up to 500 sheets of plain/recycled paper in the following sizes:

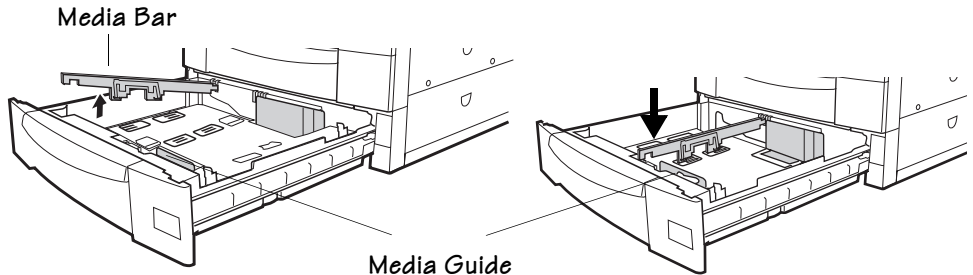
- A3
- A4
- B4
- Government letter
- Ledger
- Legal
- Letter

Loading the Media Trays

- 1 Slide open the main tray.
- 2 Press down on the media-lifting plate inside the tray until it clicks into place.



- 3 If necessary for the size media you're loading, remove the green media bar and reinsert it in the appropriate location.
- 4 If necessary for the size media you're loading, press the green button located near the outer edge of the tray to adjust the media guide.



- 5 Load the proper size media within the guides.

The stack of paper that is loaded into the tray should not exceed the maximum level indicator.

- 6 Close the main tray.

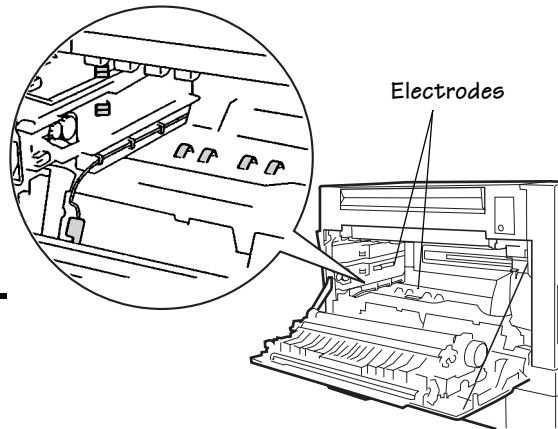
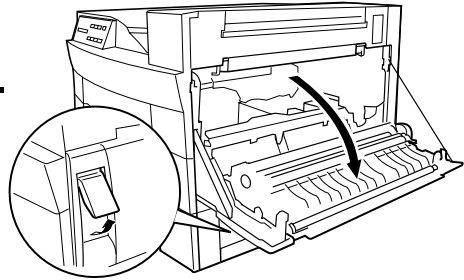
Installing a Toner Cartridge

- 1 Pull the side-door release lever and open the side door.

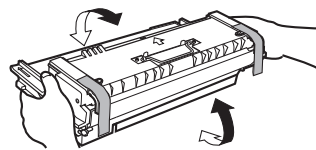
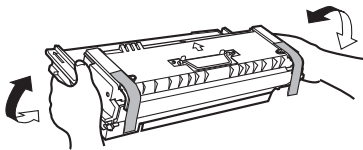


WARNING! Never touch the copper and brass electrode that is located inside the right door and underneath the toner cartridge, as an electrical shock or printer malfunction can result.

ACHTUNG! Berühren Sie niemals die Metall-Elektroden, die in der Innenseite der rechten Klappe und unter der Toner-cartridge angebracht sind, da Sie sonst einen elektrischen Schlag bekommen könnten oder eine Funktionsstörung des Druckers eintreten kann.

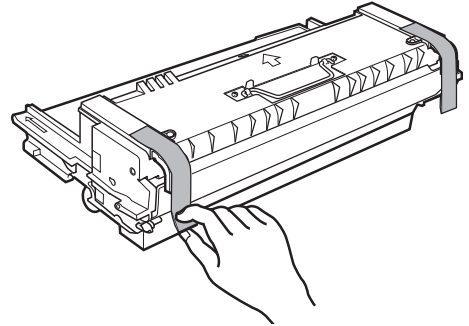


- 2 Take the toner cartridge out of the carton, and remove it from the bag.
- 3 Holding it with both hands, shake it left and right, forward and back.

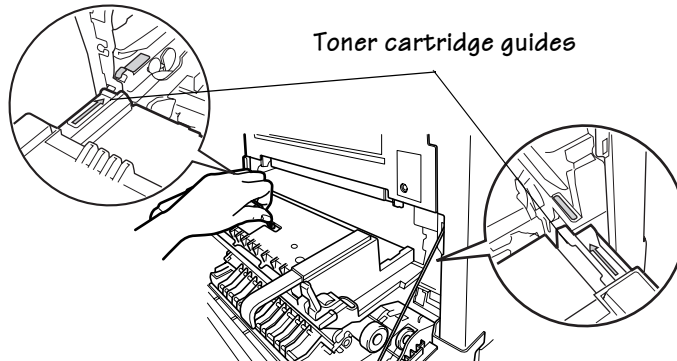


Installing a Toner Cartridge

- 4 Carefully remove the packing tape that is adhered to the grips by pulling from the bottom up.

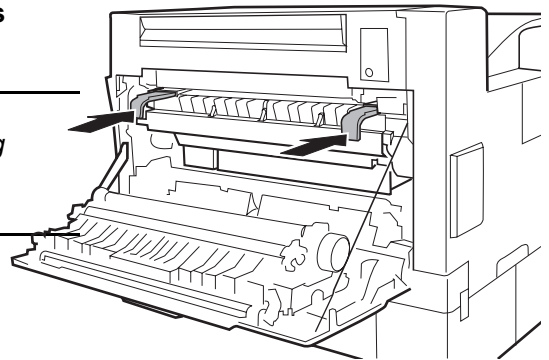


- 5 Align the green guides on the toner cartridge with the slot bearing the green seal located inside of the printer.



- 6 Insert the toner cartridge as far as it will go inside of the printer.

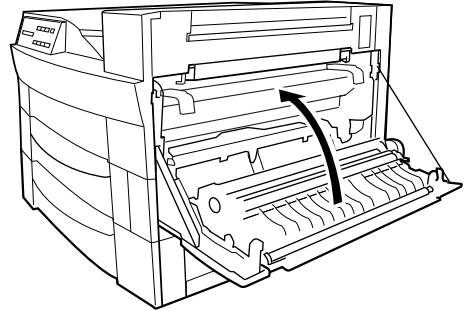
- ◆ **Caution:** Use the green handles to push in the toner cartridge. Pressing the middle of the cartridge may damage it.



Installing a Toner Cartridge

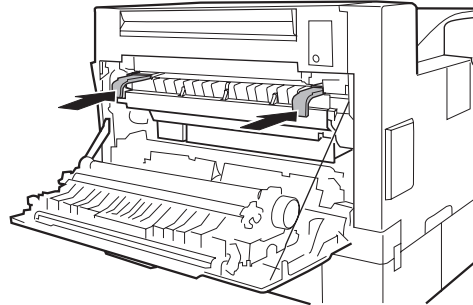
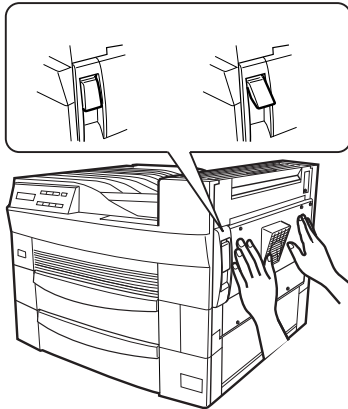
7 Close the side door.

- » **Note:** Make sure that the side door is closed correctly. If it is difficult to close the side door, push the green tabs of the toner cartridge as far as they will go inside the printer and try again. They are spring-loaded and provide resistance. Then place one hand on each end of the side door and press firmly to close it.



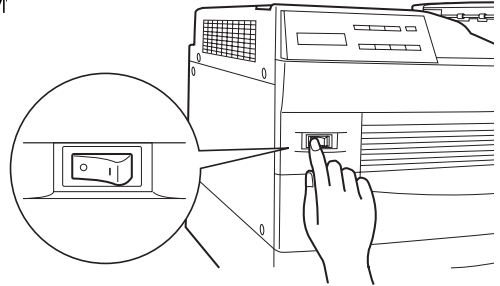
Closed


Not Closed

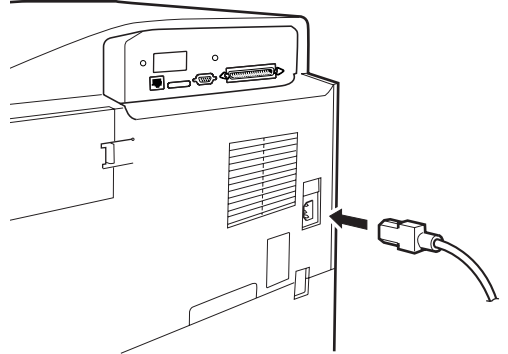


Plugging in and Turning on the Printer

- 1 Make sure the printer is turned off. 



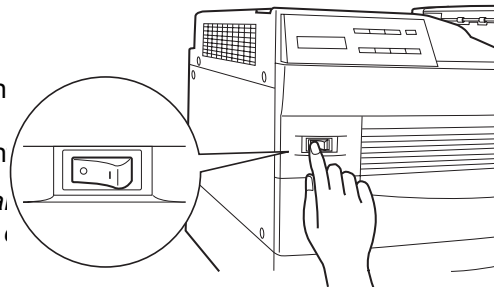
- 2 Plug one end of the power cord into the printer and the other end into a power outlet. 



- 3 Plug in the printer and turn it on. 

In about 60 seconds, a start-up page prints and a Ready message displays in the control panel's message window, indicating that the printer is ready to print.

- » **Note:** *The printer automatically enters an energy saver mode after a preset period of time in which it does not receive a print command from the computer. The time period can be preset through the control panel. The printer requires approximately 60 seconds to warm up after entering the energy saver mode before it prints a document. The printer automatically starts warming up as soon as it receives a print job, the Online/Offline key is pressed, or the side door is opened and closed.*
- ❖



3

Connecting the Printer to a Computer

In This Chapter . . .

- “Introduction” on page 3-2
- “Making a Parallel Connection” on page 3-2
- “Making a Serial Connection” on page 3-4

Introduction

This chapter describes how to make parallel and serial connections.

- If you're connecting through a parallel interface, refer to "Making a Parallel Connection" of this chapter.
 - If you're connecting through a serial interface, refer to "Making a Serial Connection" of this chapter.
 - If you're connecting through an Ethernet network, refer to chapter 4, "Connecting the Printer to a Network," of this manual.
- » **Note:** *If the printer is more than 6.5 feet (2 meters) from the computer, we recommend using a serial or Ethernet connection for better communication.*

Making a Parallel Connection

Parallel Interface Requirements

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 printer vendor or a local computer store.

To connect your printer to a single computer, 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 IEEE 1284 bidirectional parallel and Centronics parallel-communication. The type of parallel cable you use depends on the type of parallel communication your computer supports (check your computer user's guide if you're unsure).

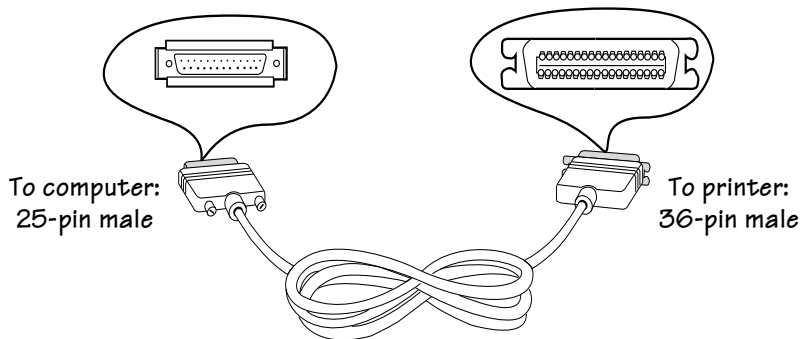
- If your computer supports IEEE 1284 bidirectional parallel communication, you need an IEEE 1284 bidirectional parallel cable (IEEE 1284 is indicated on the cable). This cable must be 6.5 feet/2 meters or less in length.

Making a Parallel Connection

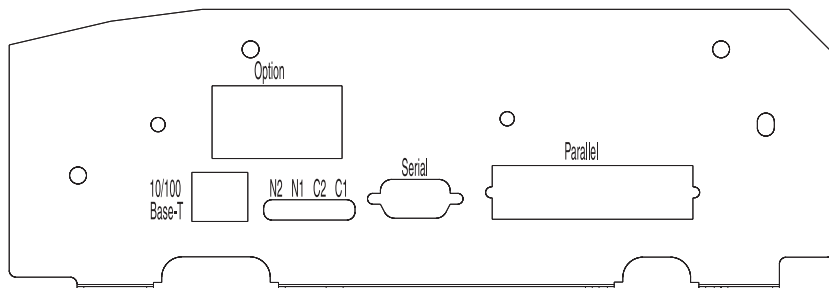
- If your computer supports only Centronics parallel unidirectional communication, you may use either a Centronics parallel cable (unmarked on cable) or an IEEE 1284 bidirectional parallel cable (IEEE 1284 is indicated on the cable). However, we recommend an IEEE 1284 cable. The IEEE 1284 cable must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

Making the Connection

- 1 Turn off both the printer and the computer.
- 2 Connect the computer and the printer using a parallel cable.



- a Connect the 25-pin end of the cable to the computer's parallel port, and tighten the screws.
- b Attach the 36-pin end of the cable to the printer's parallel port (labeled "PARALLEL"), and close the clips.



Making a Serial Connection

3 Turn on both the printer and the computer.

A start-up page should print.

4 Install a printer driver.

(See chapter 5, “Installing and Using Print Utilities,” of this manual).

5 Test communication between the printer and the computer.

Do this by sending a file from one of your applications.

Making a Serial Connection

Serial Requirements

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 printer vendor or a local computerized.

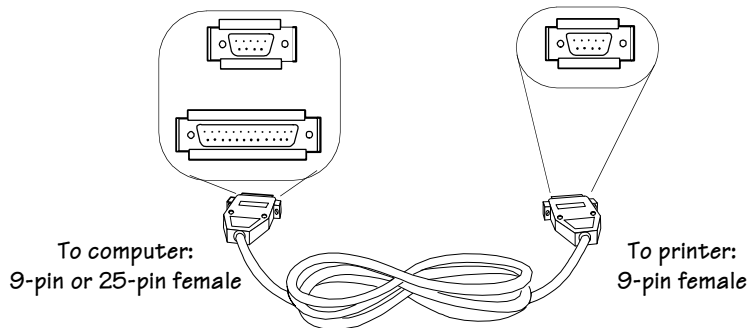
To connect your printer to a single computer, you need a serial cable with either a 9- or 25-pin connector (depending on your computer's serial port) and a 9- or 25-pin null modem assembly to connect to the serial cable. Depending on the type of null modem assembly you have, you may also need a 9-to-25-pin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

How to Choose a Serial Cable

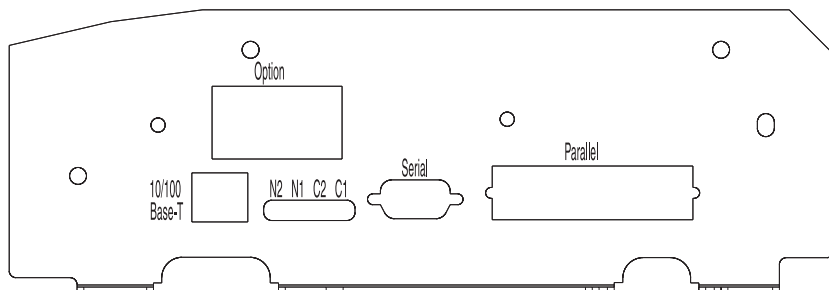
If the printer is more than about 6.5 feet/2 meters from the computer, we recommend using a serial cable for better communication. For best results, the serial cable should be less than 25 feet/7.6 meters long.

Making the Connection

- 1 Turn off both the printer and the computer.
- 2 Connect the computer and the printer using a serial cable.



- a Connect the serial cable (with the null modem adapter attached) to the computer's 9-pin or 25-pin male serial port.
- b Connect the other end of the cable to the printer's 9-pin serial port (labeled "SERIAL"), and tighten the screws.



- 3 Turn on both the printer and the computer.
A start-up page should print.
- 3 Install a printer driver.
See chapter 5, "Installing and Using Print Utilities," of this manual).
- 4 Test communication between the printer and the computer.
Do this by sending a file from one of your applications.



4

Connecting the Printer to a Network

In This Chapter . . .

- “Introduction” on page 4-2
- “Connecting to a Network” on page 4-2
- “Configuring the Interface/Network” on page 4-3

Introduction

This chapter provides basic instructions on how to connect your printer to a network, as well as information on how to configure the interface.

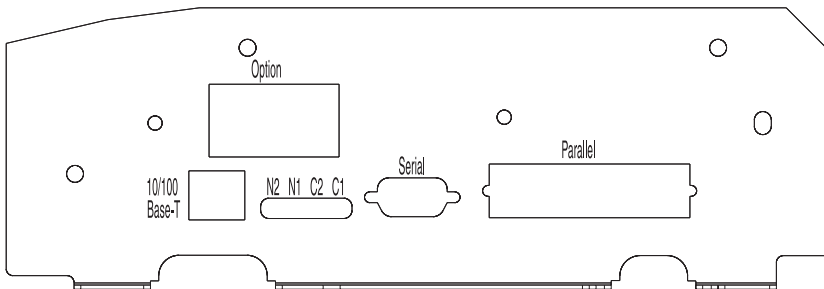
The network interface is a combination of hardware and host software that allows your printer to be connected to an Ethernet network that supports the following:

Operating System	Protocol
Macintosh	EtherTalk
NetWare	IPX, SPX, TCP/IP
UNIX	TCP/IP
Windows 3.1/95/98/NT	TCP/IP

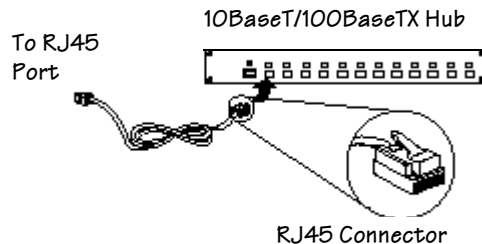
Connecting to a Network

The printer provides a twisted-pair (10BaseT/100BaseTX) Ethernet interface, which uses an RJ45 connector.

- 1 Turn off and unplug the printer.
- 2 Connect one end of the twisted-pair Ethernet cable to the printer's 10BaseT/100BaseTX Ethernet port.



- 3 Connect the other end of the cable to the 10BaseT/100BaseTX hub.



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

Configuring the Interface/Network

This section briefly describes the interface and network configuration needed to use each supported protocol. You can make these configuration changes through any of the following means:

- **CrownView web-based configuration monitoring utility**—This is the recommended method of configuration. For more information, refer to chapter 4, “CrownView,” of the *Operation* manual.
- **Printer control panel**—For information on using the printer control panel to change configuration menu settings, refer to chapter 3, “Configuration Menus,” of the *Operation* manual.
- **CrownAdmin (for OS/2, AIX, HP-UX, Solaris/SunOS, and Windows/Windows NT/Windows for Workgroups)**—For more information on using this software, refer to the software’s on-line help.

EtherTalk

For more information, see the *DPO Quick Configuration Guide* or the *Print Server Card Manual*. Both are in Acrobat PDF format on the *2560 Utilities and Documentation* CD-ROM.

- 1 **Enable AppleTalk.**
- 2 **Set the Zone Name (up to 32 characters).**
- 3 **Install the 2560 Print System PPDs from the *2560 Utilities and Documentation* CD-ROM.**
- 4 **In the Chooser, associate the PPD with the 2560 Print System.**
- 5 **Go to chapter 5, “Installing and Using Print Utilities,” of this manual.**

IPX/SPX

For more information, see the *DPO Quick Configuration Guide* or the *Print Server Card Manual*. Both are in Acrobat PDF format on the *2560 Utilities and Documentation* CD-ROM.

NetWare (Bindery)

- 1 **Enable NetWare.**
- 2 **Designate the Print Server Name.**
The default name is the hardware address.
- 3 **Designate the preferred file server.**
- 4 **Designate the Print Queue scan rate if desired.**
The default is 1 second.
- 5 **Designate the specific frame type if desired.**
- 6 **Create a Print Server.**
Use the same name as you used in step 2.
- 7 **Assign the Print Server password if desired.**
- 8 **Create a printer to be serviced by this file server.**
Use the type Other/Unknown.

- 9 **Create or assign a print queue to be serviced.**
- 10 **Go to chapter 5, “Installing and Using Print Utilities,” of this manual.**

NetWare (Directory Services—NDS)

- 1 **Enable NetWare.**
- 2 **Designate the Print Server Name.**
The default name is the hardware address.
- 3 **Designate the Print Server password if desired.**
- 4 **Designate the preferred NDS context.**
- 5 **Designate the preferred NDS tree.**
- 6 **Designate the Print Queue scan rate if desired.**
The default is 1 second.
- 7 **Designate the specific frame type if desired.**
- 8 **Create a Print Server.**
Use the same name and context as you used in steps 2 and 4.
- 9 **Assign the Print Server password if desired.**
- 10 **Create a printer to be serviced by this file server.**
Use the type Other/Unknown.
- 11 **Create or assign a print queue to be serviced.**
- 12 **Go to chapter 5, “Installing and Using Print Utilities,” of this manual.**

TCP/IP

For more information, or if you're using BOOTP or ARP to assign IP addresses, see the *DPO Quick Configuration Guide* or the *Print Server Card Manual*. Both are in Acrobat PDF format on the *2560 Utilities and Documentation* CD-ROM.

Networks with DHCP

- 1 **In the Communications/IP Address menu, enter the printer's Internet address.**
The factory default Internet address is 161.033.128.024

Configuring the Interface/Network

- 2 Enable DHCP.**
- 3 Configure the DHCP server to configure the printer for the appropriate parameters.**
- 4 Go to chapter 5, “Installing and Using Print Utilities,” of this manual.**

Networks without DHCP

- 1 In the Communications/IP Address menu, enter the printer’s Internet address.**

The factory default Internet address is 161.033.128.024

- 2 In the Communications/Subnet Mask menu, enter the printer’s subnet mask.**

The factory default subnet mask is 000.000.000.000

- 3 In the Communications/Gateway menu enter the Internet address of the default router.**

The factory default address is 000.000.000.000

- 4 Add the printer’s IP address and IP name to the HOSTS table.**

- 5 Go to chapter 5, “Installing and Using Print Utilities,” of this manual.**



5

Installing and Using Print Utilities

In This Chapter . . .

- “Introduction” on page 5-2
- “PC Printing Software” on page 5-2
- “Installing a QMS Printer Driver” on page 5-3
- “Macintosh Printing Software” on page 5-5
- “CrownView” on page 5-6
- “CrownAdmin” on page 5-8
- “Application Notes” on page 5-9

Introduction

This chapter covers how to install printer driver software on both a PC and a Macintosh and also gives an overview of the CrownView browser utility.

PC Printing Software

If you're replacing a PostScript or PCL 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 (such as collation or higher resolution printing), or if you've never printed to a PostScript or PCL printer before, we recommend that you install a QMS printer driver.

Windows Operating Systems

If you're using Windows, it is recommended that you install one of the QMS-developed Windows drivers on the *2560 Print System Utilities and Documentation* CD-ROM, which is shipped with your printer. PostScript and HP PCL 5e/6 drivers are available for the following Windows operating systems:

- Windows 3.1
- Windows for Workgroups 3.11
- Windows 95/98
- Windows NT 4.0

If you're using Windows 95/98 or NT, these drivers auto-install from the *2560 Print System Utilities and Documentation* CD-ROM. If you're using Windows 3.1 or Windows for Workgroups 3.11, 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.

Serverless (Peer-to-Peer) Printing

Your printer has the ability to print over the network without going through a server, using IP or IPX. Refer to the *Print Server Card* manual (in Acrobat PDF format on the *2560 Utilities and Documentation* CD-ROM) for more information.

Non-Windows Operating Systems

If you're using a non-Windows operating system, read the printing section of your application documentation for information on choosing a driver. If the application does not provide a driver, contact the application manufacturer to see if one has become available since you bought the program. Drivers for some applications are available through the Internet. Also, check to see if application notes (tips for printing from specific applications) are available for your application from the Internet.

Installing a QMS Printer Driver

Minimum System Requirements

Windows 95/98, Windows 3.1, Windows for Workgroups 3.11

- An IBM or compatible computer with 486 or higher processor
- A hard disk with at least 10 MB of free space
- At least 8 MB of RAM
- 16 color/grayscale display with 640x480 pixel screen size
- Windows 95/98, Windows 3.1, or Windows for Workgroups 3.11

Windows NT

- An IBM or compatible computer with 386 or higher processor
- A hard disk with at least 25 MB of free space
- At least 16 MB of RAM (32 MB recommended)
- 16 color/grayscale display with 640x480 pixel screen size
- Windows NT 4.0

Installation

-
- ◆ **Caution:** *Windows limits the total number of installed printers to 16. Problems may occur if you install both the QMS PostScript printer driver and a QMS Win95 PPD for the Microsoft PostScript printer driver. If they have the same printer model name (for instance "QMS 2560," the driver registry entry for one name overwrites the other (even if you have assigned different printer names), and unpredictable behavior results. If one of these drivers is already installed, you must delete it before installing the other.*
-

- 1 With Windows running, insert the *QMS 2560 Print System Utilities and Documentation* CD-ROM in your computer's CD-ROM drive.**
 - 2 Access the CD-ROM selection screen.**
 - **Windows 95/98/NT**—Skip to step 3 because the CD-ROM automatically boots and displays this screen.
 - **Windows 3.1/Windows for Workgroups 3.11**—In Explorer, change to the appropriate CD-ROM directory, and then double-click the SETUP.EXE icon.
 - 1 In the Welcome dialog box, select Install Printer Utilities and Drivers.**
 - 2 Read the Installation note and then choose Next>.**
 - 3 Select General User Installation or Network Custom Installation and then choose Next>.**
 - 4 Select the appropriate printer driver or PPD, screen fonts, and utility, and choose Next>.**
- » **Note:** *A brief summary of each appears in the description box when the item is highlighted.*
- 5 Follow the instructions on the screen.**
 - 6 When you're returned to the Installation Type dialog box, continue to install other program utilities or drivers, or choose Back, then Exit the CD-ROM.**
 - 7 Remove the CD-ROM, and store it in a safe place.**

8 To customize the default driver settings for your environment, access the settings through the following menus:

- Windows 95/98—Start/Settings/Printers
- Windows NT—Start/Control Panel/Printers
- Windows 3.1/Windows for Workgroups 3.11—Control Panel/Printers

Use the driver online help for information on driver settings.

Macintosh Printing Software

If you're replacing a PostScript printer, you can 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 (such as collation, or higher resolution printing), or if you have never printed to a PostScript printer before, we recommend that you install the following:

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

Installing Macintosh PPDs

QMS Macintosh PPDs are included on the *2560 Print System Utilities and Documentation* CD-ROM that shipped with your printer.

- 1 With the Macintosh on, insert the *2560 Print System Utilities and Documentation* CD-ROM into 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 PPDs folder icon to display the folder contents.**

6 Double-click the INSTALL 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 PPDs and screen fonts.
- **Custom Install** allows you to choose the options you want to install. The amount of available space on your 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 (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 only a few minutes. The installer places all of the options on the hard disk of your Macintosh.

10 When the installation is finished, you're prompted to choose either Continue or Quit.

Continue allows for additional installations of the software, and Quit exits the installer program.

CrownView

CrownView is a printer-based web page. This feature allows you to monitor printer consumables as well as access information that is normally available only by printing a status page. In addition, anyone on your company intranet can access the 2560 Print System through their web-browser software.

Accessing the Printer's CrownView Web Page

You can access your printer's CrownView web page either through IPX/SPX or through TCP/IP.

Using MAP over an IPX/SPX Connection

MAP (Management Access Protocol) generates a list of compatible network printers and displays it using the PC's default browser. You can then use these links to access the printer's CrownView web pages. For more information about MAP, refer to the *Print Server Card* manual (in Acrobat PDF format on the *2560 Utilities and Documentation* CD-ROM).

- » **Note:** *Using MAP, you are limited to CrownView's network configuration pages. To access all of the CrownView pages, you must use TCP/IP.*

Setting Up Your Browser Software for TCP/IP Connection

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

- » **Note:** *You need to do this procedure only once.*

For Netscape

- 1 **Start your web browser.**
- 2 **Access the Options menu and choose Network Preferences.**
- 3 **Select the Proxies tab in the dialog box.**
- 4 **Select the Manual Proxy Configuration radio button and press the View... button.**
- 5 **In the No Proxy For: text box, type a comma after the last entry and then type the printer name or the IP address of your 2560.**

- » **Note:** *The printer name and IP address are located in the host file.*

- 6 **Choose OK.**
- 7 **Enter the printer name or IP address in the Go to: URL address box to access the printer home page.**

For Internet Explorer

- 1 Start your web browser.
 - 2 Access the View menu and choose Options.
 - 3 Select the Connection tab on the dialog box.
 - 4 Click the Settings button to display the Proxy Settings dialog box.
 - 5 In the Exceptions text box, type a semicolon after the last entry and then type the printer name or the IP address.
- » **Note:** *The printer name and IP address are located in the host file.*
- 6 Click OK.
 - 7 Enter the printer name or IP Address in the URL address box to access the printer home page.

For more information about CrownView, see the *Operation* manual.

CrownAdmin

CrownAdmin is a QMS utility that allows system administrators to control, configure, and manage the 2560 Print System or any other MIB-II-compliant printer from a centralized, remote computer.

Use the following instructions to install CrownAdmin from the *2560 Print System Utilities and Documentation* CD-ROM:

- 1 **With the CD-ROM Welcome dialog box on the screen, select Install Printer Utilities and Drivers.**
- 2 **Read the welcoming information and choose Next.**
- 3 **Select Network/Custom Installation and choose Next.**
- 4 **Select CrownAdmin, and choose Next.**
- 5 **Follow the instructions on the screen to perform the installation.**
- 6 **When the installation is complete, choose Cancel and then Exit Setup.**

For information on using CrownAdmin, refer to the online help.

Application Notes

Adobe Illustrator

For best output quality and accurate screening, install the QMS-developed Windows driver, 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 (600 dpi or 1200 dpi).**

Adobe Photoshop

For best output quality and accurate screening, install the QMS-developed Windows driver, 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, if it's not already.**

Aldus Persuasion

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

CorelDRAW

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

QMSPS=1 ↵ (PostScript driver)
QMSPS=0 ↵ (Non-PostScript driver)

Other versions of CorelDRAW may also require special setup. Check your CorelDRAW documentation for more information.

Microsoft Excel

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 gray 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 resulting image from the center of the page.



A

QMS Customer Support

In This Appendix . . .

- “Sources of Support” on page C-2
- “QMS World-wide Offices” on page C-4

Sources of Support

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

Your 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.

Internet

Corporate Web Page

You can view the QMS home page at <http://www.qms.com>. The QMS server provides access to technical reports, new product announcements, a trade show schedule, and other general information about QMS. The QMS ftp resource is <ftp://www.qms.com>.

2560 Print System Answer Base

The QMS Answer Base is a free interactive online technical support system for the 2560 Print System. It answers common questions and provides diagnostic advice—24 hours a day, 7 days a week. To access the Answer Base, go to <http://www.qms.com/support>, and then select Answer Base.

The Answer Base helps you locate the information you need by asking you questions. In fact, it can provide results even when you don't quite know what to ask for or how to find it.

Use the Answer Base before contacting technical support—you will likely find the answer to your question. However, if the answer is not available, you will be provided with specific contact information to help solve your problem.

Technical Support

You obtain technical support in four different ways:

- **Telephone**—Call toll-free (877) 778-2687 (US) Monday–Friday, 7:00 am–7:00 pm, Central Time.
- » **Note:** *Please have the following information ready when you call so our technicians can help you more quickly:*
 - ☑ The printer model and serial number
 - ☑ Your phone number, fax number, email address, and shipping address
 - ☑ A description of the problem
 - ☑ 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 of the file you're trying to print (listed on both the status and startup pages)
 - ☑ An advanced status page or startup page, if you can print one
- **Email**—Email questions to support@qms.com.
- **Fax**—Fax questions to (303) 939–2398 (Attention: QMS Support). Provide the same information as listed above, and indicate whether you would like a faxed or a phoned reply.
- **Internet**—Access the Support area of the QMS web site at <http://www.qms.com/support> and then select Answer Base (the dancing sun icon) to access the interactive online technical support system or select SupportMail to send a question directly.

QMS World-wide Offices

QMS United States and Latin America

General Contact

Telephone	1 (334) 633-4300
Answer Base	http://www.qms.com/support , then click on Answer Base
Fax	1 (334) 633-4866
Email	info@qms.com
Internet	http://www.qms.com/usa.html
Product Registration	http://www.qms.com/support/prodreg

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

1 (800) 523-2696

Font & Form Center 1 (334) 634-4FONT

Latin America

Fax	1 (334) 639-3347
Internet	http://www.qms.com/Spanish/Latin_America.htm

Service

Service Information, Installation, and Maintenance Pricing

	1 (800) 858-1597	24 hrs. (closed on national holidays)
On-Site Service and Depot Repair	1 (800) 858-1597	24 hrs. (closed on national holidays)
Spare Parts Ordering and Information	1 (334) 633-4300 x2530	8:00 am-5:00 pm Central Time
Email	service@qms.com	
Internet	http://www.qms.com/service , then click on Place A Call	
	http://www.qms.com/service , then click on Custom Service Quote	

Technical Support

Telephone	1 (877) 778-2687 (toll-free)	7:00 am-7:00 pm Central Time
Email	support@qms.com	
Fax	1 (303) 939-2398 (Attention: QMS Support)	
Internet	http://www.qms.com/support , then click on SupportMail	

QMS Canada

General Contact

Telephone 1 (905) 206-0848
Fax 1 (905) 206-0903
Internet <http://www.qms.com/usa.html>

Service

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On-Site Service and Depot Repair
1 (800) 858-1597 24 hrs. (closed on national holidays)
Spare Parts Ordering and Information
1 (334) 633-4300 x2530 8:00 am-5:00 pm Central Time
Email service@qms.com
Internet <http://www.qms.com/service>, then click on Place A Call
<http://www.qms.com/service>, then click on Custom Service Quote

Technical Support

Fax ☐ 1 (303) 939-2398 (Attention: QMS Support)

QMS Japan

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Telephone (+81)-3 3779-9600
Fax (+81)-3 3779-9650
Internet <http://www.qmsj.co.jp>
Technical Support ☐ (+81)-3 3444-9865 ☐ 10:00 am-noon, 1:00 pm-5:00 pm

QMS EMEA

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Index

A

Acrobat Reader 1-10

Adobe

Acrobat Reader 1-10

Application notes 5-9

B

Browser software

Setting up 5-7

C

Configuration

Manual proxy 5-7

Connecting to a network 4-2

Customer support, QMS A-2

D

Documentation

Overview of this manual 1-8

Product 1-9

Related 1-10

Standard product 1-10

E

Energy Star 1-3

G

Grounding 1-4

I

Internet A-2

L

Loading media tray 2-5

Location requirements 2-3

M

Macintosh

Utilities 5-5

Manual

Contents 1-8, 1-12

Overview 1-8
Typographic conventions 1-12

Manual proxy

Configuration 5-7

Media

Preparing 2-5

Media tray

Loading 2-5

Moving the printer 1-7

N

NetWare interface configuration 4-5

Network

Connecting to 4-2

P

Paper

Loading 2-6, 2-8

Parallel connection

Choosing a cable 3-2

Interface requirements 3-2

Power

Connecting the printer 2-13

Power requirements

Energy Star, compliance 1-3

Printer 1-2

Precautions

Grounding 1-4

Operating environment 1-5

Power source 1-4

Printer Usage 1-5

Printer

Web page, setting up 5-7

Printer driver

Installation requirements 5-3

Q

QMS

Technical support A-3

World-wide offices A-4

R

Requirements 3-2

Power 1-2

Space 1-3

S

Serial connection

Choosing a cable 3-4

Requirements 3-4

Setup

Browser software 5-7

Printer web page 5-7

Software

Macintosh 5-5

PC 5-2

Space requirements 1-3

Support, QMS

Customer A-2

Internet A-2

Technical A-3

World-wide A-4

T

TCP/IP interface configuration 4-5

Technical support, QMS A-3

Typographical conventions 1-12

U

Unpacking the printer 2-4

Utilities

Macintosh 5-5

W

Windows driver 5-5

Installation 5-5

