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# **QMS<sup>®</sup> *magicolor*<sup>®</sup> 330**

## **Print System**

### **Getting Started**

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**1800503-001B**

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# 1

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## Introduction

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### **In This Chapter . . .**

- “About the Printer” on page 1-2
- “About the Documentation” on page 1-2
- “What’s Next?” on page 1-8

# About the Printer

The QMS *magicolor* 330 Print System comes in two domestic models: CX, which uses flash memory for storing system software, and EX, which uses an internal IDE hard disk for storing system software. An optional large-capacity input feeder is available for either model.

## QMS *magicolor* 330 CX Print System

- 64 MB RAM (upgradable to 384 MB)
- 600x600 dpi resolution; upgradable to 1200x1200 dpi
- Flash ROM to hold system software

## QMS *magicolor* 330 EX Print System

- 192 MB RAM (upgradable to 384 MB)
- 1200x1200 dpi resolution
- Internal IDE hard disk to hold system software
- Time-of-day clock

# 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



**QMS *magicolor* 330 Quick Setup Guide and Quick Setup Guide—Options**

These handouts (3 and 2 pages, respectively) assist in getting the printer up and running. They are to be used as a quick setup reference only and should be used in conjunction with the full manuals.



**QMS magicolor  
330 Print  
System Getting  
Started**

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.

» **Note:** *This manual is also in Adobe Acrobat PDF format on the magicolor 330 CD-ROM.*



**QMS magicolor  
330 Print  
System  
Operation**

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.

» **Note:** *This manual is also in Adobe Acrobat PDF format on the magicolor 330 CD-ROM.*



*magicolor 330  
CD-ROM*

**QMS magicolor  
330 Print  
System Options**

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.

(Adobe Acrobat  
PDF format)



*magicolor 330  
CD-ROM*

**QMS magicolor  
330 Print  
System  
Reference**

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.

(Adobe Acrobat  
PDF format)



*Software Utilities  
CD-ROM*

**QMS Crown  
Remote  
Console User's  
Guide**

This manual describes how to use the Remote Console software to access printer information and change printer configuration settings from anywhere on the network.

(Adobe Acrobat  
PDF format)

## About the Documentation



Software Utilities  
CD-ROM

### **QMS Crown Network Notes**

(Adobe Acrobat  
PDF format)

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.



Software Utilities  
CD-ROM

### **QMS CrownNet Setup Guide**

(Adobe Acrobat  
PDF format)

Refer to this manual for complete setup information on the QMS CrownNet Ethernet and QMS CrownNet Token-Ring interfaces.



Software Utilities  
CD-ROM

### **QMS CrownNet System Admin- istrator's Guide**

(Adobe Acrobat  
PDF format)

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 software.



Software Utilities  
CD-ROM

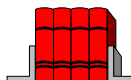
### **QMS Crown Document Option Commands**

(Adobe Acrobat  
PDF format)

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 *Reference* manual. In most cases, only advanced users or system administrators need this information.

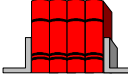
## Related Documentation

Several other documents are also helpful when using your printer:



### **PostScript Reference Manuals**

Other manuals that contain PostScript information are the *PostScript Language Reference Manual* (Adobe Systems, Inc., Reading, MA: Addison-Wesley, 1990 ISBN-0201-18127-4), and other *PostScript Language Reference Manual* 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 330 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. Installment instructions are provided.

### **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 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

## About the Documentation

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. With quick on-line access, the manuals never become dog-eared and yellowed or collect dust on some forgotten shelf. Your PDF-formatted manuals will empower you to take full advantage of all the capabilities of your printer.

### Using Adobe Acrobat Reader

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- 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, contact QMS Supplies at 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> or our ftp resource at <ftp.qms.com>. 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.

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<b>1</b>	<b>Introduction</b>	Presents an overview of the documentation and of the printer's features.
<b>2</b>	<b>Setting up Your Printer</b>	Guides you in selecting a location for your printer and explains how to unpack and set up your printer.
<b>3</b>	<b>Connecting to a PC</b>	Explains how to connect the printer to a PC using either the parallel or serial port.
<b>4</b>	<b>Connecting to an Ethernet Network</b>	Explains how to connect the printer to an Ethernet network using the Ethernet port and how to do the necessary printer and network configuration.
<b>5</b>	<b>Connecting to a Macintosh</b>	Explains how to connect the printer to a Macintosh using the optional LocalTalk port.

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### **6** Using the Control Panel

Introduces the parts of the printer control panel.

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### **A** QMS Customer Support

Provides product sales and support telephone numbers and describes how to communicate with QMS through the Internet and Q-FAX.

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## Conventions

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

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

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  - ⚠ **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, OPC drum cartridge, fuser oil roller), load and install the standard media cassette, turn the printer on, and print a startup page.



# 2

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## Setting Up Your Printer

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### In This Chapter . . .

- “Finding a Good Location” on page 2-2
- “Checking Shipment Contents” on page 2-6
- “Registering the Printer” on page 2-9
- “Moving the Printer” on page 2-10
- “Getting Acquainted with Your Printer” on page 2-11
- “Setting up the Printer” on page 2-13
- “Installing Options” on page 2-24
- “Connecting the Interface and Power Cables” on page 2-24
- “Troubleshooting” on page 2-25
- “What’s Next?” on page 2-26

# 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 drum cartridge, and fuser oil roller), loading the media cassette, turning the printer on, and printing a startup page.

## Finding a Good Location

For a safe and convenient printer operation, consider the following when determining the installation location:

- Away from cooling and heating sources, extreme temperature or humidity 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).
- » **Note:** *If the printer is located in a cold room that is rapidly heated, or if the printer is moved from a cold place to a warm, humid place, condensation may occur within the printer, degrading print quality. If this occurs, allow the printer to adapt to the environment for about one hour before use.*
- Away from water.  
Also, when used near a humidifier, impurities in the water may be released into the air, where they can accumulate inside the printer and cause degraded printer output.
- » **Note:** *So, if using a humidifier or water vaporizer in the room with the printer, use only purified or distilled water.*
- Away from open flames. Away from items that can easily burn.
- Away from items that produce excessive vibration.
- In an area with an ambient temperature range of 41° to 90° F (5° to 32° C) and relative humidity range of 15% to 85%

## Finding a Good Location

(noncondensating). If the ambient temperature is 90° F (32° C), relative humidity should be maintained below 48%. If the relative humidity is 85%, the ambient temperature should be maintained below 18° F (28° C).

- In a well-ventilated area, but away from wind that can blow on it.
- At an altitude of 0–8200 feet (0–2500 m).
- On a hard, flat, level, stable surface capable of supporting approximately the 150 lb (68.4 kg) printer plus consumables and media. The printer must be placed within 0.16 inches (5 mm) front to rear and 0.39 inches (10 mm) left to right of level.
- Near your computer—6.5 feet (2 m) or less for an IEEE 1284 bidirectional parallel connection; cables for other connections may be longer.
- Close to an easily accessible power supply.
- On an exclusively dedicated power outlet. If the printer is connected to the same circuit used by other high-current machines, such as a copier or air conditioner, or to an electrically noisy machine, low voltage or noise may cause overheating, computing errors resulting in data loss, and improper performance.
- With enough space to allow adequate ventilation and easy servicing.
- With clearances shown on page 2-4.

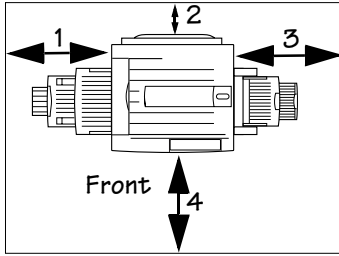
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◆ **Caution:** *The printer has ventilation grilles on the side and back, which must remain unobstructed for safe operation. The printer should be located at least 6 inches (150 mm) from the wall. Obstructing the grilles could present a fire hazard. Also, to allow proper operation of the printer, including replacement of consumables and routine checks, the illustrated clearances should be provided.*

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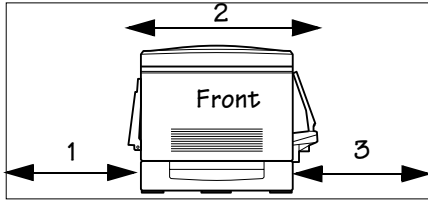
# Finding a Good Location

## Top View



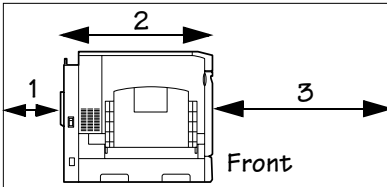
- 1 20 inches (50.8 cm)
- 2 5.9 inches (15.0 cm)
- 3 21.7 inches (55.1 cm)
- 4 32.9 inches (83.5 cm)

## Front View



- 1 20 inches (50.3 cm)
- 2 28.7 inches (72.9 cm)
- 3 21.7 inches (55.1 cm)
- 4 22 inches (59.9 cm)

## Side View



- 1 5.9 inches (15.0 cm)
- 2 27.2 inches (69.1 cm)
- 3 32.9 inches (83.5 cm)

## **Power Requirements**

- 
- ⚡ **WARNING!** *Connect the power plug to an outlet with the same rated voltage as the printer (120, or 240 V), and fused for at least 15 amperes (8 amperes for 240 V). No other devices should be connected to this outlet, as overheating could cause fire or electric shock. The printer draws 11 A at 120 V, or 6 A at 240 V. Your printer requires a properly grounded AC outlet with a rated line voltage of 120 V or 220–240 V. The grounding terminal on the power cable should be connected to a good earth ground to prevent electric shock and fire, or the green grounding wire in the power cable must be connected as follows.*

**ACHTUNG!** *Schließen Sie das Netzkabel an eine Stromquelle an, die die gleiche Voltzahl wie der Drucker hat (120 oder 240 V) und mindestens 15 Ampere gesichert ist (8 Ampere für 240 V). Schließen Sie keine anderen Geräte an diesen Ausgang an, da sonst als Folge von Überhitzung Feuergefahr oder Gefahr eines Stromschlags herrscht. Der Drucker zieht 11 A bei 120 V, oder 6 A bei 240 V. Ihr Drucker benötigt einen geerdeten AC Ausgang mit geregelter Gleichstrom mit 120 V oder 220-240 V. Der Erdungsanschluß des Stromkables sollte gut geerdet werden, um Stromschläge und Feuer zu vermeiden, oder das grüne Erdungskabel im Stromkabel muß folgendermaßen angeschlossen sein.*

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

Fused	For at least 15 amperes (8 amperes for 240 V).
Printer	Draws 11 A at 120 V, or 6 A at 240 V.
Rated Line Voltage	Voltage of 120 V, or 220–240 V must remain within $\pm 10$ percent of the rated line voltage for proper operation.
Amperage Capacity of the Electrical Outlet	Amperage capacity at least 1.2 times that used by the printer.

## Checking Shipment Contents

Maximum Electrical Current	Required during operation is 11 amps for a 120 V system, and 6 amps for a 220–240 V system.
Noise-generating Equipment	Should not be connected to the same electrical outlet as the printer.
Recommended Frequency	60 Hz $\pm$ 2 Hz for a 120 V system, and 50 Hz $\pm$ 2 Hz for a 220–240 V system.

### Energy Star Compliance

The QMS *magicolor* 330 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 a user-configurable time period.



# Checking Shipment Contents

## Shipment Contents

The standard printer package consists of the following items. Confirm that you have received everything before starting installation.

If any items are missing or damaged, contact your shipping company or your vendor. See appendix A, “QMS Customer Support,” for product sales and support information. Refer to the *Options* manual for optional accessories’ packing information.

- » **Note:** *Retain the packing materials if you expect to have to transport the printer.*

## **Unpacking Overview**

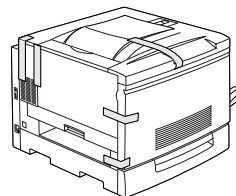
### **1 Documentation**



- *QMS magicolor 330 Print System Quick Setup Guide and Quick Setup Guide—Options* handouts
- *QMS magicolor 330 Print System Getting Started* (this manual)
- *QMS magicolor 330 Print System Operation* manual
- *QMS magicolor 330 Documentation CD-ROM* manuals
  - *QMS magicolor 330 Print System Quick Setup Guide and Quick Setup Guide—Options*
  - *QMS magicolor 330 Print System Getting Started*
  - *QMS magicolor 330 Print System Operation*
  - *QMS magicolor 330 Print System Options*
  - *QMS magicolor 330 Print System Reference*
- *QMS Software Utilities CD-ROM*
- Colorific color reference card
- Warranty and registration card

Hard copies of all documentation can be ordered for an additional cost. Contact your vendor.

### **2 Printer with a built-in 250-sheet universal media cassette**

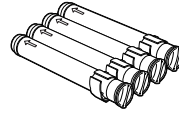


# Checking Shipment Contents

## 3 Consumables kit

### a Four toner cartridges

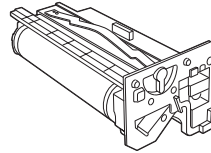
(one each of black, magenta, cyan, and yellow)



- » **Note:** *At normal 5% coverage, the black cartridge will print 4,500 simplex letter/A4 images while the magenta will print 5,700 images, and the cyan and yellow cartridges will each print 6,000 images.*

### b OPC drum cartridge

(includes the light-sensitive drum, drum cleaner, and waste toner box)



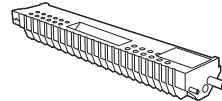
---

**Caution:** *Never touch the surface (the blue part) of the drum, or hit or rub the drum surface; if the drum is scratched or contaminated with oil from your hand, printing will be degraded.*

---

### c Fuser oil roller

This unit applies the proper amount of fuser oil.



- » **Note:** *A high-duty fuser oil roller is available for customers who typically print close to the maximum monthly rate (20,000 pages at over 500 pages per day).*

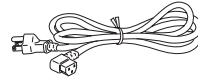
## 4 Face-up output tray (left side of printer) with tray extender



## 5 Multipurpose input tray (right side of printer) with tray extender



### 6 AC power cord



- » **Note:** *Interface cables aren't included in the shipment. If you need cables, contact your vendor. See chapters 3, 4, and 5 of this manual for information on the type cable needed.*

### Media

If you need alternate media, contact your 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> or our ftp resource at <ftp.qms.com>.

## 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) 633-4500. In other countries, refer to appendix A, "QMS Customer Support," for the appropriate telephone number.

# Moving the Printer

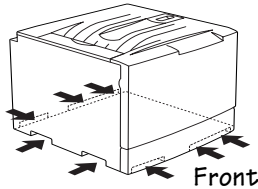
- 
- ⚠ **WARNING!** *The printer weighs about 150 lbs (68 kg). Don't lift it by yourself. Grip the recessed areas provided on the front, back and left side when lifting the printer. Never try to lift the printer by gripping the multipurpose tray, as the printer could fall and cause injuries. Secure a firm footing and bend your knees to avoid possible back injuries.*

**ACHTUNG!** *Der Drucker wiegt ca 68 kg; bitte versuchen Sie niemals, das Gerät alleine anzuheben oder zu tragen. Greifen Sie in die vorgesehenen Gehäuse-Aussparungen vorne, hinten und links wenn Sie den Drucker anheben. Heben sie den Drucker niemals an der Mehrzweckzufuhr an, da das Gerät fallen und Sie verletzen könnte. Stellen Sie sich fest auf den Boden und gehen Sie beim Heben in die Hocke um Rückenverletzungen zu vermeiden.*

---

Lift the printer from its shipping pallet, and place it in its new location.

**Printer Side View**

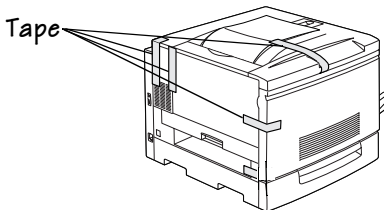


**Printer Top View**



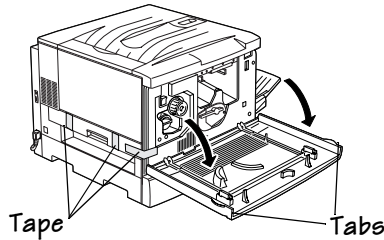
- 
- ◆ **Caution:** *When preparing to lift the printer, note that the back side is heavier than the front.*
- 

- 1 **Remove any tape securing the outside of the printer.**



## Getting Acquainted with Your Printer

- 2 Open the front cover by pulling the tabs forward.
- 3 Remove any tape holding the fuser unit.



- 4 Close the front cover.

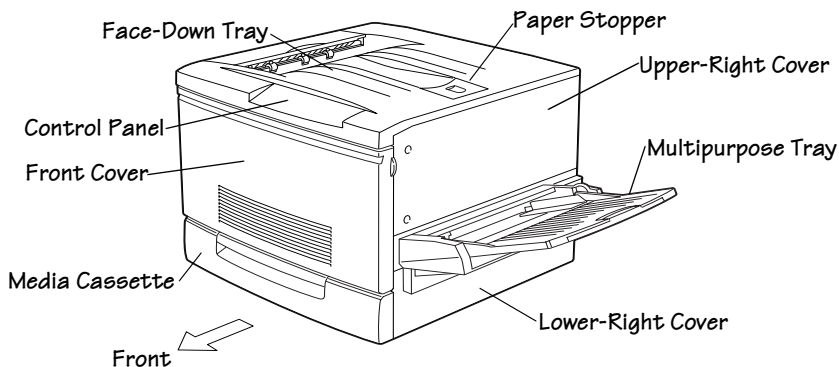
# Getting Acquainted with Your Printer

Before installing the consumables and operating the printer, you should become familiar with certain physical items, as shown below.

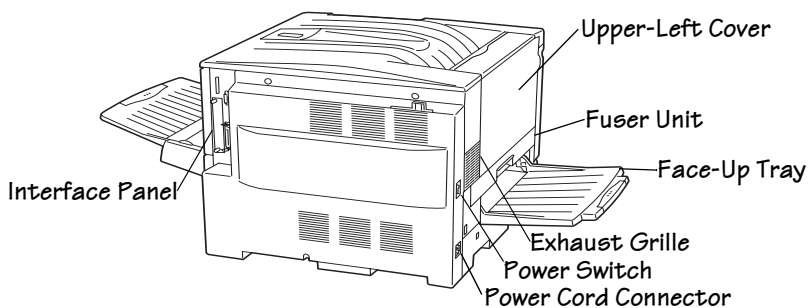
- » **Note:** *If you're using the Acrobat PDF version of this manual, the parts of the printer shown on the next page are hotlinked—by clicking on that portion of the illustration, you will go to the section in the Operation manual that pertains to that part.*

# Getting Acquainted with Your Printer

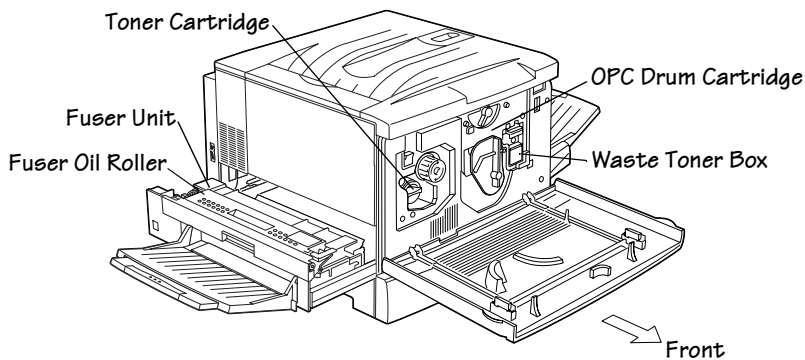
## Front View



## Rear View



## Internal View



# Setting up the Printer

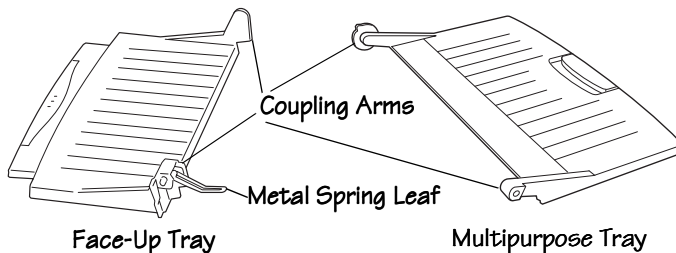
## Overview

- Install the face-up (output) tray and the multipurpose (input) tray.
- Remove the fuser unit spacer and the fuser roller separators from the fuser unit, and install the fuser oil roller.
- Remove the toner spacers, install the four toner cartridges, and install the OPC drum cartridge.
- Remove the media cassette spacer and load the media cassette.
- Remove the spacers from the multipurpose tray.
- Remove the shipping tie-wrap.
- Connect the interface and power cables.
- Configure the printer.


See the rest of this chapter for more details.

- 
- ◆ **Caution:** *Spacers are installed in various locations to protect against vibration during shipment. Be sure to remove all of the spacers.*
- 

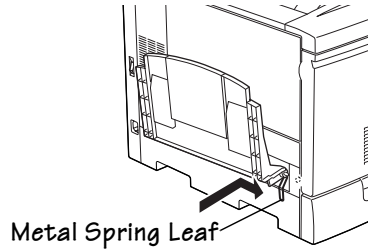
## Install the Face-Up and Multipurpose Trays



# Setting up the Printer

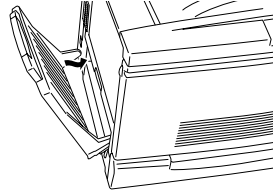
- 1  **Fold the face-up tray upward, then fit the tray's right coupling arm into the corresponding hole in the printer.**

When doing this, hold the metal spring leaf (ends in a loop) close to the face-up tray.

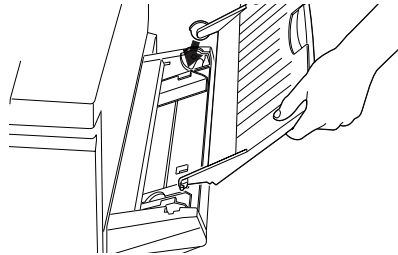


- » **Note:** *Make sure that the metal spring leaf extends downward from the tray and does not enter the hole in the printer.*

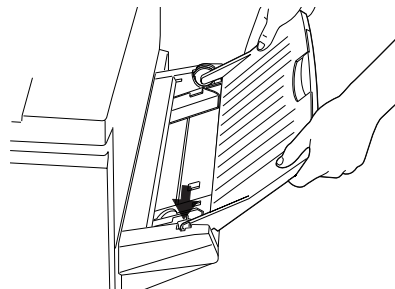
- 2 **Fit the face-up tray's left coupling arm into the hole in the printer.**



- 3 **Holding the multipurpose tray with both hands, fit the coupling arm on the right into the slot on the printer**



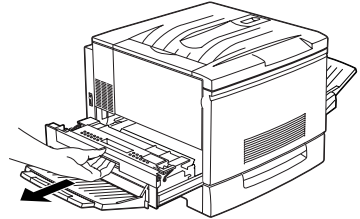
- 4 **Fit the multipurpose tray's left coupling arm into the slot on the printer, and press downward on the left coupling arm until it latches.**



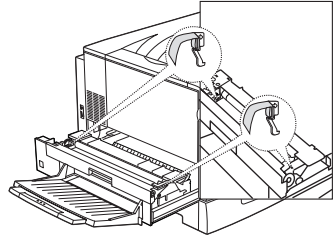
## **Remove the Fuser Roller Separators and Spacer, and Install the Fuser Oil Roller**



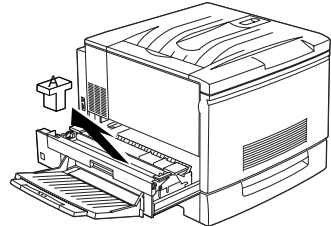
- 1** Slide the fuser unit on the left side of the printer out as far as it will go.



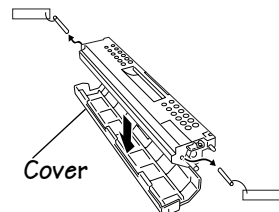
- 2** Remove the tape and the two metal fuser roller separators.



- 3** Remove the spacer (labeled "A").



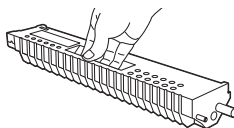
- 4** Remove the fuser oil roller from its package.
- 5** Remove its tape, protective cover and two pins.



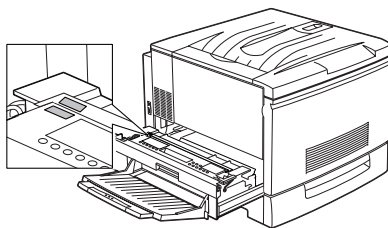
## Setting up the Printer

- 
- ◆ **Caution:** *Oil on this roller will come off on your skin if touched directly. Shield this roller from dust and toner when removing or inserting into the fusing unit.*
- 

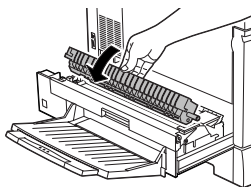
- 6 Hold the fuser oil roller as shown in the diagram.



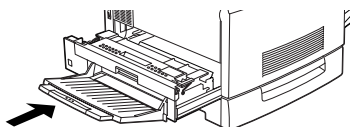
- 7 Align two colored tabs—one on the fuser unit, and one on the fuser oil roller.



- 8 Carefully lower the fuser oil roller until it clicks into place.



- 9 Slide the fuser unit on the left side of the printer firmly back into the printer.



## Install the Toner

### Remove the Toner Spacers

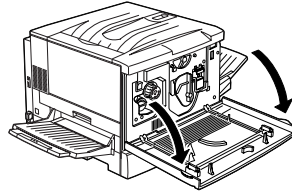


Your printer uses four toner cartridges: black, yellow, magenta, and cyan.

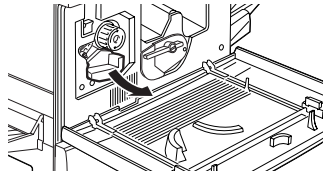
## Setting up the Printer

- » **Note:** *The toner in the cartridge is nontoxic. However, if you get any toner on your hands or clothes, wash it off promptly with cool water.*

- 1 **Open the printer's front cover.**



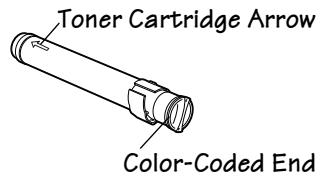
- 2 **Pull out and remove the foam spacer (labeled with the tag "B").**



### Install the Toner Cartridges



- 1 **Remove each new toner cartridge from its package.**



Each toner cartridge has a color-coded end that corresponds to the colored cartridge slots. It doesn't matter which color you start with or in what order the colors are installed. Each cartridge is physically (as well as visually) keyed to ensure correct installation.

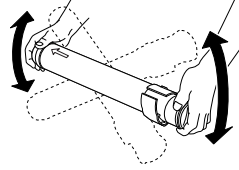


**Caution:** *Always install the toner cartridge in the slot of the same color. If a toner cartridge doesn't slide in easily, don't force it. Check that you're installing the correct color toner cartridge in the correct slot.*

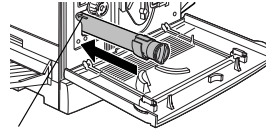
# Setting up the Printer

**2 Evenly distribute the toner in the cartridge.**

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

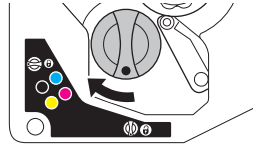


**3 Holding the toner cartridge so the arrow is at the top, insert the cartridge as far as it will go.**



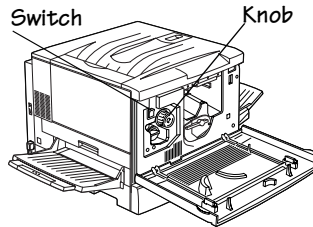
Toner Cartridge Arrow

**4 Rotate the toner cartridge clockwise until the “●” mark on the cartridge is aligned with Lock on the printer.**

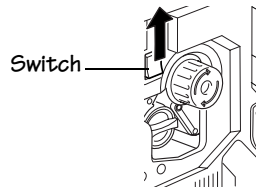


**Caution:** *Be sure to rotate the cartridge all the way to the Lock mark. Otherwise, toner may spill.*

Locate the antirotation switch and the rotation knob.



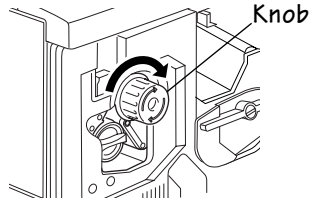
**5 Press and release the anti-rotation switch upward to unlock the knob.**



**Note:** *Release the switch, or the toner cartridges will rotate too far.*

- 6 Turn the knob clockwise as far as it will go to move the cartridge into position.

» **Note:** The knob will not turn unless the toner cartridge is set properly. If the knob will not turn, recheck for proper toner cartridge installation.



- 7 Repeat steps 2 to 6 for the next two toner cartridges.
- 8 Repeat steps 2 to 4 for the last toner cartridge.

## Install the OPC Drum Cartridge

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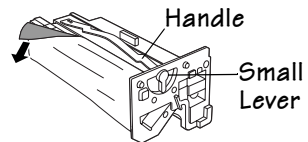
◆ **Caution:** Never touch the surface (the blue part) of the drum or hit or rub the drum surface. The drum is extremely sensitive to bright light and direct sunlight. Always leave it in its protective bag until you're ready to install it. Handle the cartridge carefully.


---

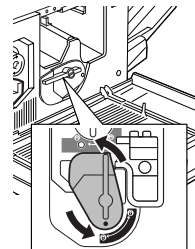
» **Note:** If the OPC drum is scratched or contaminated with oil from your hand, printing will be degraded.

- 1 Remove the OPC drum cartridge from its packaging.


Hold the OPC cartridge by its handle.

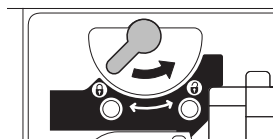


- 2 Make sure the large lever below the OPC cartridge cavity is turned counter-clockwise and the "●" mark on the cartridge is set to the Unlock  position.

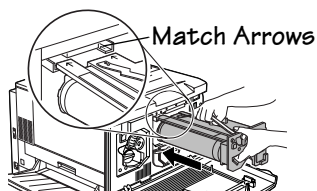


## Setting up the Printer

- 3 Turn the small lever on the top of the OPC drum cartridge counterclockwise to the Unlock  position.



- 4 Align the guide with the top of the printer rail by matching up the small arrows.




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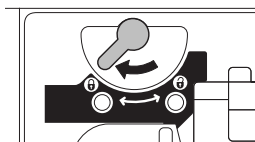
◆ **Caution:** If the guide on the OPC drum cartridge is not aligned with the top of the rail, the cartridge may be damaged.


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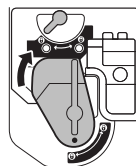
- 5 Push the OPC drum cartridge slowly all the way into the printer until it clicks.

» **Note:** Unless the drum cartridge is inserted all the way, the levers cannot be turned.

- 6 Turn the small lever clockwise to the Lock  position.



- 7 Turn the large lever clockwise to set the "●" mark on the cartridge to the Lock  position.



- 8 Close the front cover.

