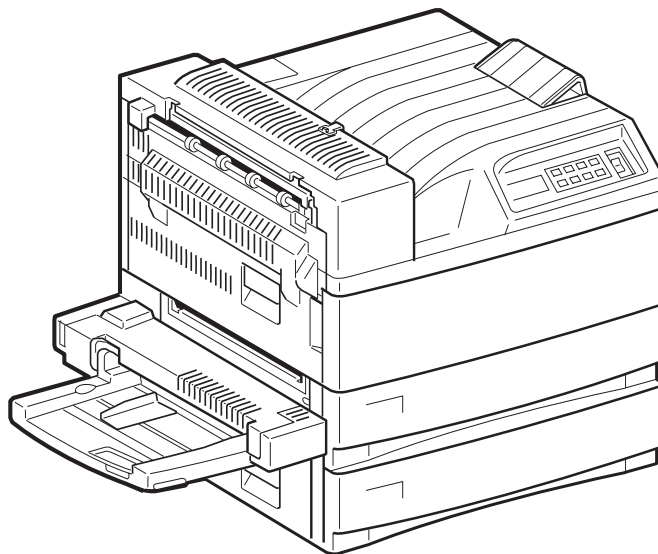


Compuprint PageMaster 450 Installation Guide



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Preface

In this Chapter . . .

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Welcome

Thank you for selecting the PageMaster 450 laser printer. In this manual you will find important information regarding operation and care of your printer. Please read this manual in its entirety and keep it at hand for later reference.

Features

Your laser printer comes with the following features.

- High-speed and high-quality printing

The PageMaster 450 has paper output of 45 pages per minute with a resolution of up to 600 x 600 dpi, assuring razor-sharp output of graphics and text, even at very small point sizes.

- Two integral interfaces

Base configurations of the PageMaster 450 has two integral interfaces: a bidirectional parallel port and an Ethernet 10/100BaseT port.

- Flexible Paper Source and Delivery

The printer comes standard with two 500-sheet universal paper cassettes and the Multi- Bypass Feeder. An optional 2500-sheet High Capacity Feeder (HCF), Envelope Feeder, and Duplexer can be installed. The printer also features the following paper output options—Face Down Output Tray, Face-Up Tray, and Finisher/Stapler.

- Ergonomic operation

The easy-to-read display clearly shows the operation status of the printer. Ergonomically shaped front-panel push-buttons are used to control all functions.

- User-friendly EP cartridge

The integrated EP cartridge contains both the toner and the photosensitive drum in a single housing, which makes it easy to replace the cartridge.

- Continuous printing of up to 3550 sheets

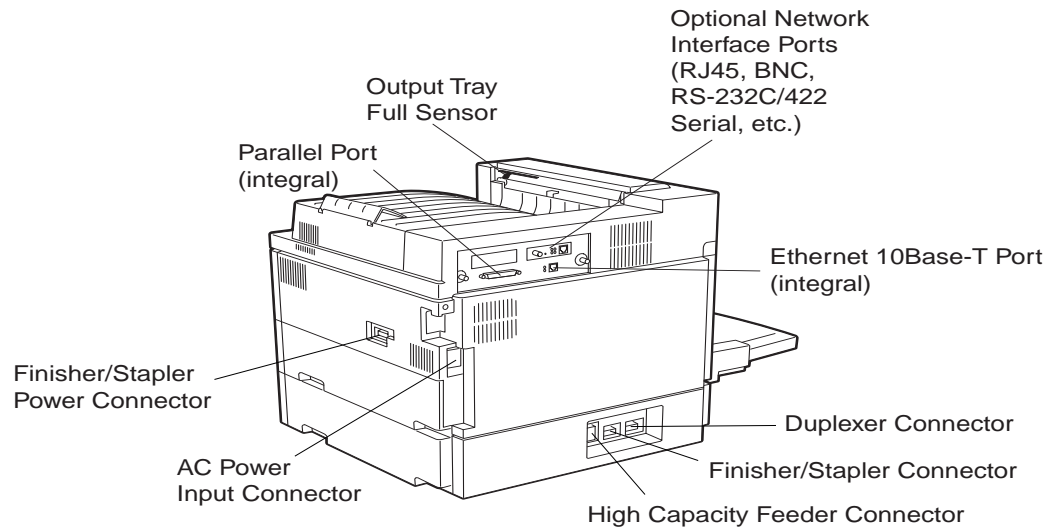
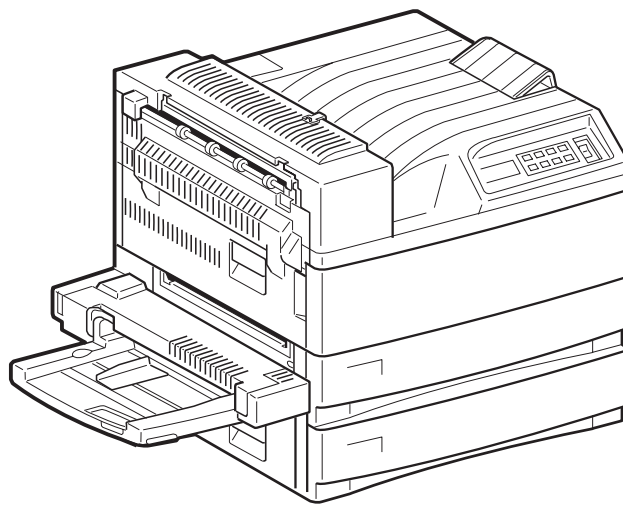
The two standard paper cassettes hold about 500 sheets of paper each and the multi bypass feeder holds 50 sheets. Trays 3, 4, and 5 in the optional HCF unit provide a total of 2500 sheets. Together they allow continuous printing of up to 3550 sheets.

Standard Configurations

The PageMaster 450 printer can be ordered in the following two standard configurations:

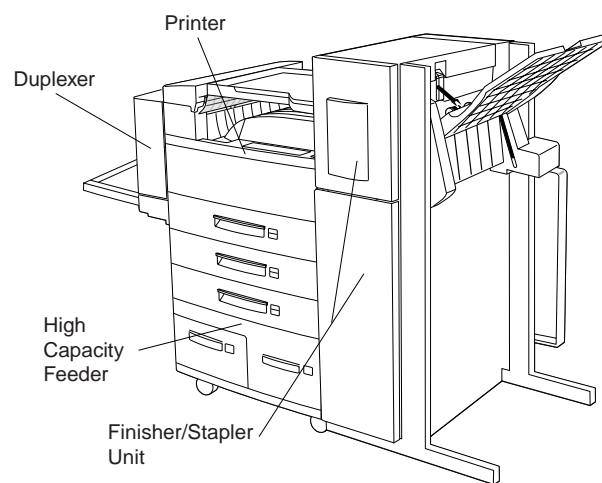
Base Configuration (for table-top use)

- **Memory:** 64 Mbytes RAM Memory
- **Resolutions:** 300 x 300 dpi and 600 x 600 dpi
- **Paper Input:** Two 500-sheet universal paper trays and one 50-sheet Multi-Purpose Bypass Feeder for paper, transparencies, envelopes, and other non-standard paper sizes
- **Paper Output:** One 500-sheet face down tray
- **Interfaces:** Bidirectional 1284 Parallel Port (Type-B); Ethernet 10/100BaseT Port
- **Printer Languages:** Adobe PostScript 3 and PCL6



Extended Configuration (floor-standing)

- **Memory:** 64 Mbytes RAM Memory
- **Resolutions:** 300 x 300 dpi and 600 x 600 dpi
- **Paper Input:** Two 500-sheet universal paper trays and one 50-sheet Multi-Purpose Bypass Feeder
- **Paper Output:** One 500-sheet face down tray
- **Interfaces:** Bidirectional 1284 Parallel Port (Type-B); Ethernet 10/100BaseT Port
- **Printer Languages:** Adobe PostScript 3 and PCL6
- **Paper Handling Options:** Duplexer, High Capacity Feeder (includes one 500-sheet tray and two 1,000-sheet trays), Finisher/Stapler Unit (supports 3,000 sheets, offers 3-hole punch capability and staples up to 50 sheets). Stapling and 3-hole punch functions can be used in conjunction to provide a 3-hole punched and stapled finished document of up to 50 sheets.



NOTE: The PageMaster 450 Bundle printers come standard with Ethernet, Duplexer, High Capacity Feeder, and the Finisher/Stapler Unit.

NOTE: This manual covers the installation of the Base Configuration only. For details on installing other paper handling options, refer to the hardcopy Setup Instructions that come with the option or Chapter 3 of the User Manual on the CD-ROM.

How This Manual is Organized

This manual consists of 3 chapters and 1 appendices as follows.

Chapter 1 Unpacking and Installing Your Printer

Describes a suitable location for your laser printer and how to unpack and install it. Be sure to read this chapter before setting up the printer.

Chapter 2 Understanding and Navigating the Control Panel

Explains the printer control panel, and describes the menu structure and the menu navigation.

Chapter 3 Troubleshooting

Explains procedures to isolate and solve problems that may occur during the installation of your printer. Control panel LCD error messages are also discussed in this chapter.

Appendix A Safety Notes and Regulatory Compliances

Describes cautions to take when installing, transporting, or operating the printer. Also includes applicable regulatory compliances of your printer.

Manual Conventions

NOTE: Notes contain tips, extra information, or important information that deserves emphasis or reiteration.



Caution: Cautions present information that you need to know to avoid equipment damage, process failure, or extreme annoyance. Pay special attention to these sections and read them fully before operating the printer. Compuprint will not be responsible for any problems or damage arising from improper use.



WARNING! Warnings indicate the possibility of personal injury if a specific procedure is not performed exactly as described in the manual. Pay special attention to these sections and read them fully to prevent possible injury.



Chapter 1

Unpacking and Installing Your Printer

In this Chapter . . .

- “About this Chapter” on page 1-2
- “Installation Precautions” on page 1-2
- “Unpacking the Printer” on page 1-4
- “Installing the EP Cartridge” on page 1-6
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About this Chapter

Describes a suitable location for your laser printer and how to unpack and install it. Be sure to read this chapter before setting up the printer.

Installation Precautions

Before unpacking your laser printer, it is recommended that you read the following to assist locating a suitable spot for your new laser printer. To make optimum use of the printer, observe the following precautions when locating the printer.

Environment



WARNING: The installation surface must be stable and very sturdy to support the considerable weight of the printer. If the printer falls over, there is a severe risk of injuries.

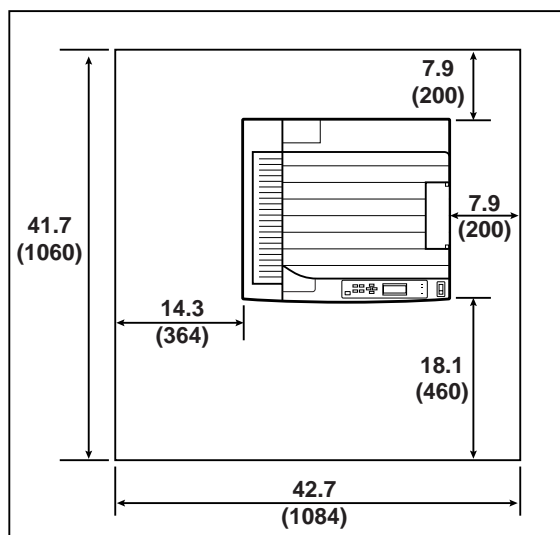
- Place the printer on a horizontal, sturdy and stable surface. The printer weighs about 106 lbs. (48 kg) and may cause injury if it falls over.
- Always place the printer under the following conditions:
Temperature: 50° to 95° F (10 to 35° C)
Humidity: 15 to 85% (non-condensation)
- Be sure to keep the temperature to below 82° F (28° C) if the humidity is 85%
If the temperature changes drastically from a cold environment to a warm environment, condensation may develop inside the printer and cause print problems. Therefore, be sure to let the printer rest for some time to adjust to the new temperature.
- Do not subject the printer to direct sunlight or a malfunction may result.
- Do not place the printer in a location with high temperature and humidity, poor ventilation, or high level of dust, otherwise a fire hazard or electric shock may result.
- Do not place the printer near heaters or similar objects, otherwise a fire hazard may result.
- Never block the ventilation openings of the printer, otherwise the internal temperature will build up and cause a fire hazard.
- Do not place the printer near alcohol, benzene, or other volatile and flammable materials, or a fire hazard may result.

Space requirements



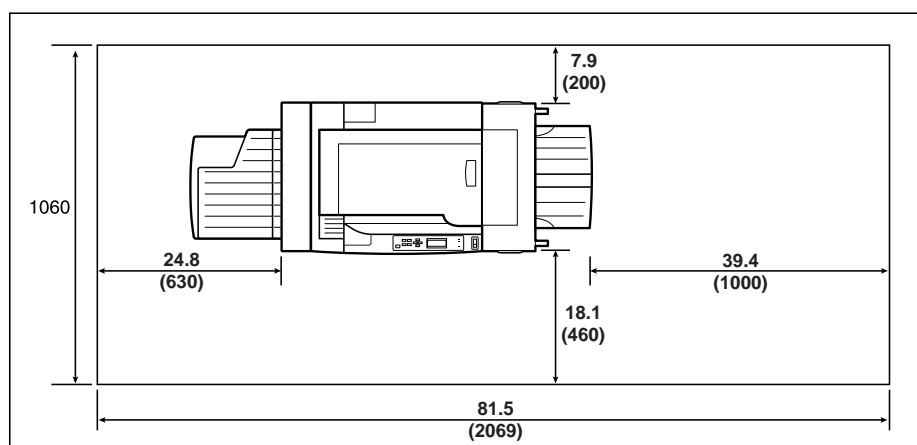
CAUTION: Be sure to leave ample space between the ventilation openings on the printer and the nearest wall or other surface, otherwise overheating may occur leading to a fire hazard. For easy operation, maintenance and replacing of consumables, you should also leave the clearances shown below around the printer. Installation of the printer should be carried out by qualified service personnel.

Top View of Printer (standard configuration)



Measurements in inches (mm)

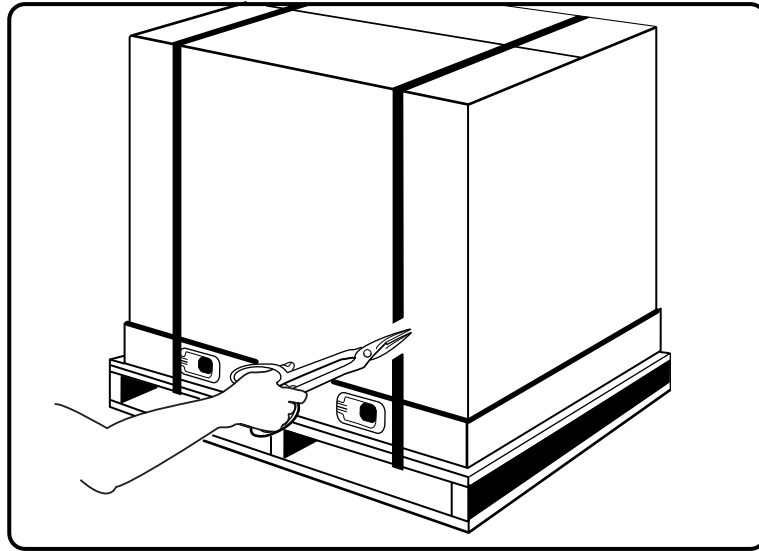
Top View of Printer (when options are installed)



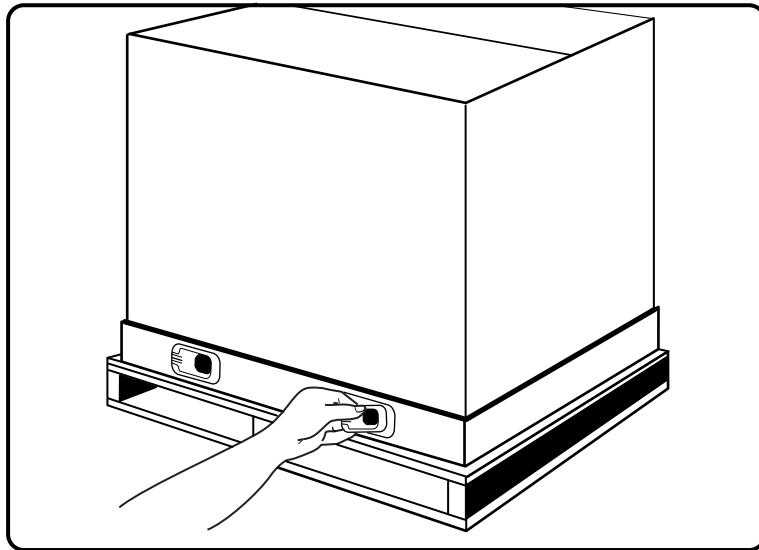
Measurements in inches (mm)

Unpacking the Printer

1. Cut the shipping straps off the exterior carton.



2. Remove the four plastic inserts at the base of the shipping container by pulling on the tabs of each insert. Plastic inserts should be completely removed.



3. Lift the shipping carton up and away from the printer.
4. Remove the plastic bag and any shipping tapes affixed to the printer.

5. Refer to the cautions below on how to carry the printer. Then, with the assistance of another person, lift up the printer and place it on the floor.



WARNING:

- 1) This printer is very heavy. The weight of the main unit without paper cassette, consumables, and paper is about 106 lbs (48kg). Never attempt to lift the printer by yourself. The printer should always be carried by two persons.
- 2) To carry the printer, grasp the four bottom corners from the right and left sides, not from the front (where the control panel is located) and back sides. Never try to lift the printer while holding any part other than the bottom corners otherwise there will be a severe risk of injury if the printer is dropped.
- 3) When lifting the printer, correct posture is important to prevent injuries.

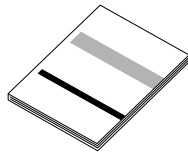
-
6. Relocate the printer to a flat and sturdy surface meeting the “[Location and Environment Precautions](#)” on page A-3.

NOTE: Save the carton and packing materials for later use in case you need to ship the printer at a later time. It is particularly important that you save the wooden shipping pallet.

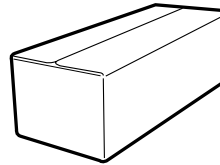


CAUTION: Never attempt to ship your printer without using the wooden pallet. Severe damage may occur.

When you unpack the printer, make sure that all the items shown below are included. If any items are missing or damaged, contact your point of purchase.



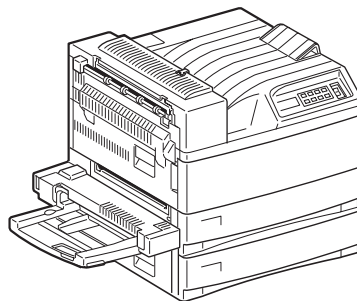
Compuprint PageMaster
450 Installation Guide



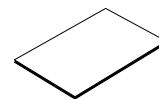
EP Cartridge



CD-ROM
“The PageMaster
450 Electronic
Library” for your
printer



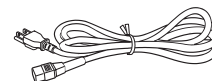
Printer main unit



Paper tray
size labels



Remote Control Software



Power cord

Installing the EP Cartridge

Before installing the EP cartridge, see the following precautions. Also, read “Chapter 5, Printer Consumables, Cleaning and Maintenance” in the *PageMaster 450 User's Guide* located on the CD ROM shipped with your printer for more information on the EP cartridge.

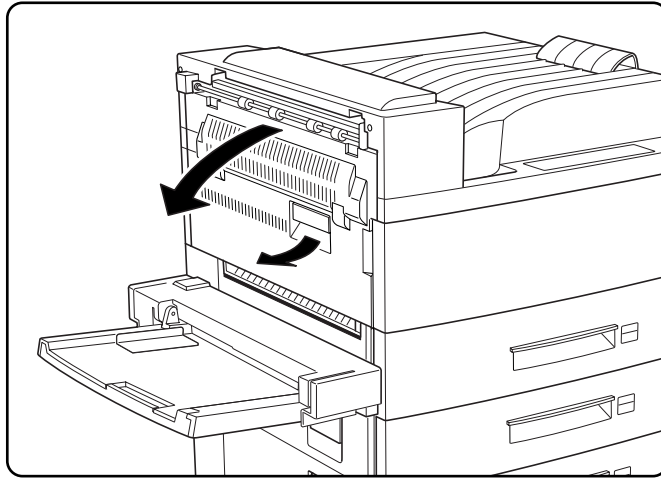
Handling Precautions

- Do not expose the cartridge to direct sunlight or other strong light sources.
- Do not carry out the procedure in a brightly lit location, and complete the installation procedure as quickly as possible (within about 5 minutes).
- When the EP cartridge is removed from the printer, immediately put it back in its original packing or wrap it with a thick lint-free cloth.
- If the EP cartridge is moved from a cold location to a warm location, let it rest for 1 hour or more before using it.
- Do not turn the cartridge over and do not stand it on its end.

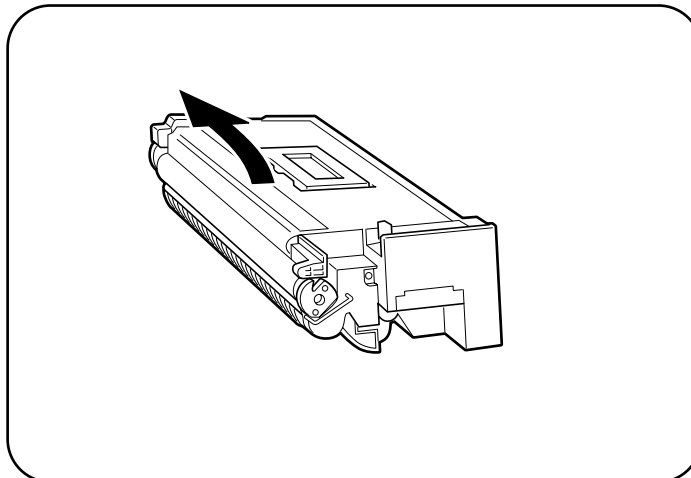
- Toner is not harmful to the human body, but if some toner has come into contact with your skin, you can wash it off with warm water and soap. If toner gets on your clothing, you should try to immediately blow it off with compressed air.
- After removing the sealing tape, do not shake the EP cartridge or apply shock to it.
- The drum shutter protects the photosensitive drum from external light. Do not open the drum shutter by hand.
- Never touch the surface of the photosensitive drum.

For standard configuration

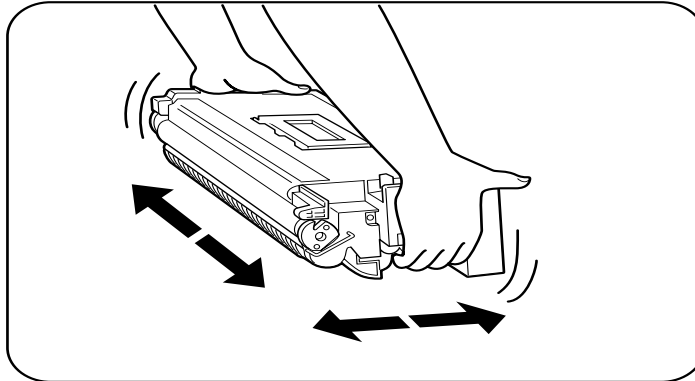
1. Hold the latch and open the upper left cover.



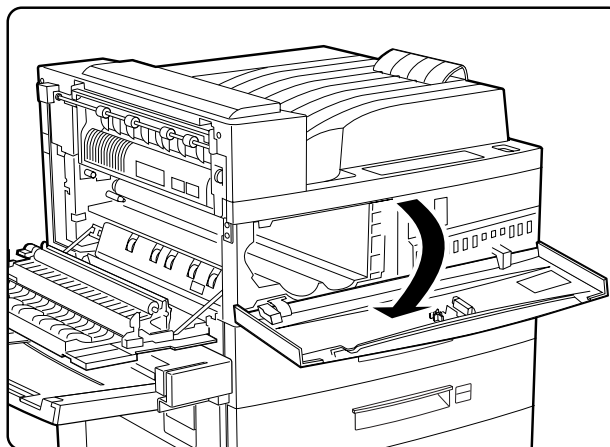
2. Remove the EP cartridge from the packing carton, and pull out the protective paper sheet from the drum shutter.



3. Hold the EP cartridge horizontally and gently shake it 5 to 6 times to evenly distribute the toner inside. Uneven toner distribution may degrade print quality. If the toner has not been properly freed by shaking the cartridge, a noise may be heard when turning on the printer and the EP cartridge may be damaged.

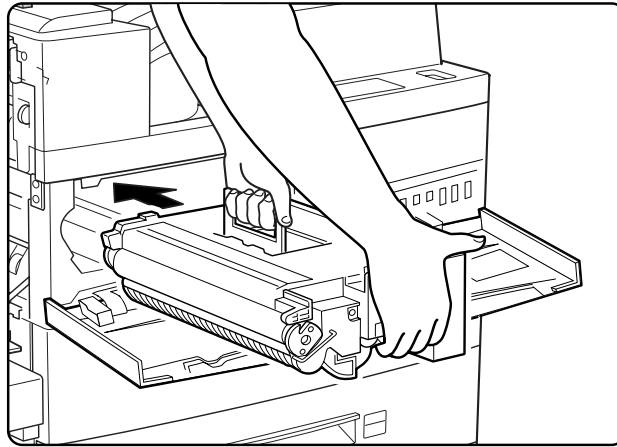


4. Open the front cover as indicated.



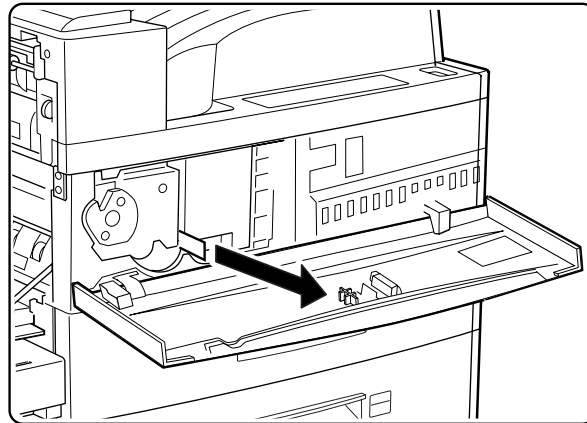
WARNING: Never touch the fuser area (where a label indicating high temperature is located). Burns may result.

5. While holding the orange handle with one hand, gently push the cartridge all the way into the printer.



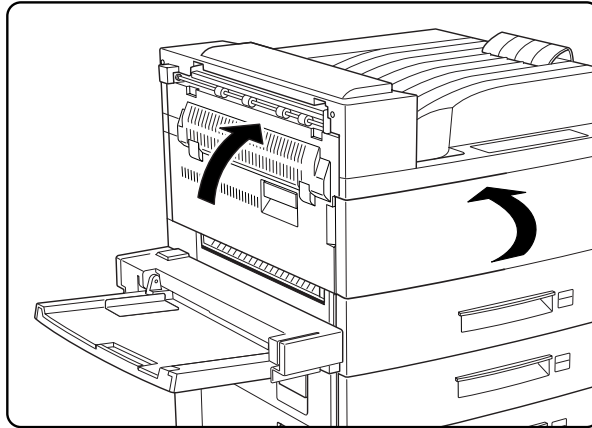
CAUTION: Do not touch any parts inside the printer. Make sure the cartridge is seated properly.

6. Gently pull out the sealing tape in the direction of the arrow.



NOTE: If the tape is pulled out at an angle, it may break.

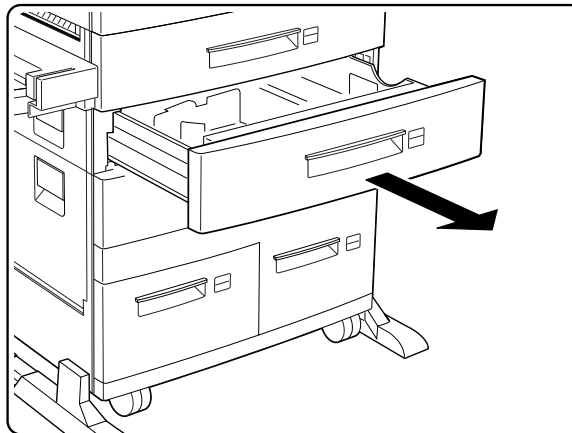
7. Close the front cover and the upper left cover.



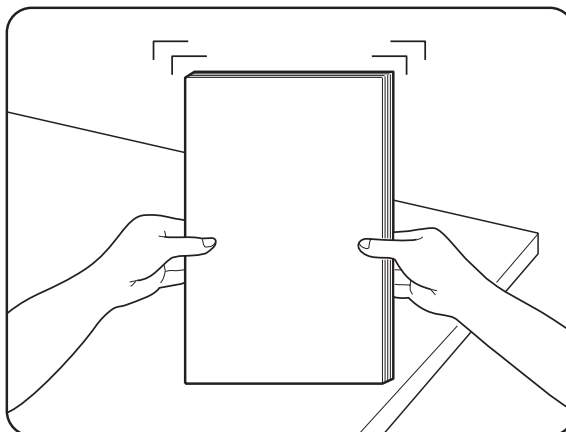
NOTE: When closing the upper left cover, do not use the latch on the cover. Instead, follow the instruction label on the cover and push the recommended location.

Adding paper to the 500-sheet universal paper cassette

1. Pull out the cassette until it stops.

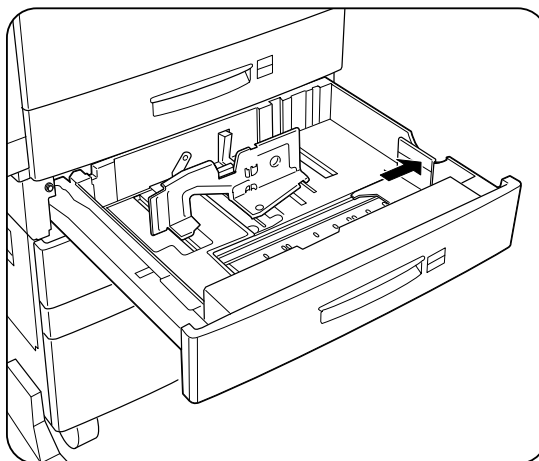


2. Prepare a stack of paper. Make sure the tops of the sheets are properly aligned.

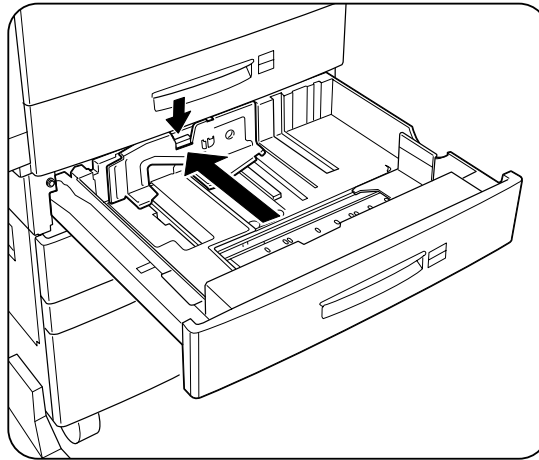


NOTE: Do not use paper with creases or wrinkles. When using special paper, fan it before insertion.

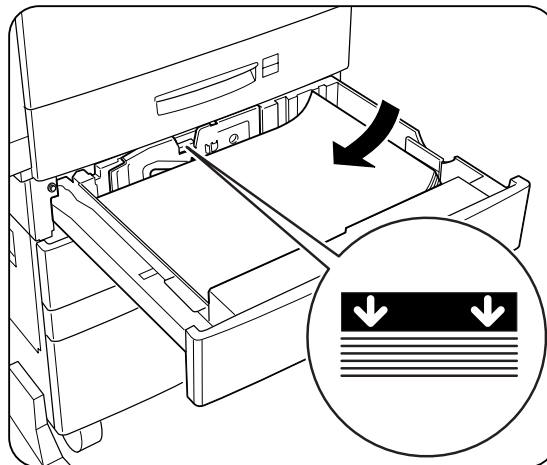
3. Gently lift up the length guide, and slide it all the way until it stops.



4. While pressing down the gray handle, slide the side guide all the way until it stops.

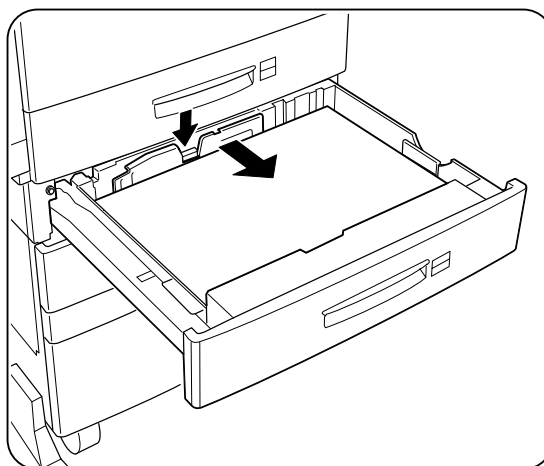


5. Align the four corners of the paper and place the paper in the cassette. The paper should enter easily between the guides. Make sure the paper does not get bent upwards by the guides.



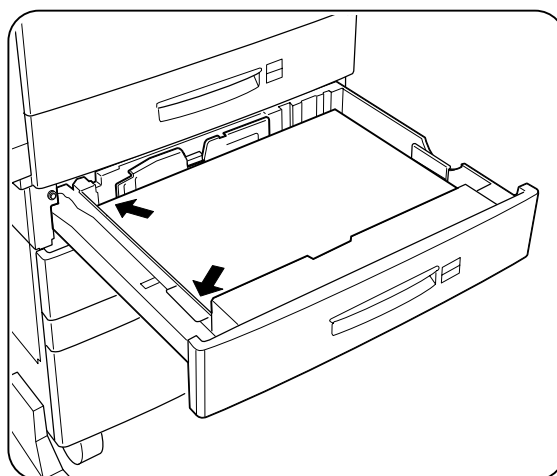
NOTE: Make sure the paper stack height does not exceed the paper limit mark. Do not overload the cassette. Always load paper of the same size.

6. Adjust the side guide to the paper width.

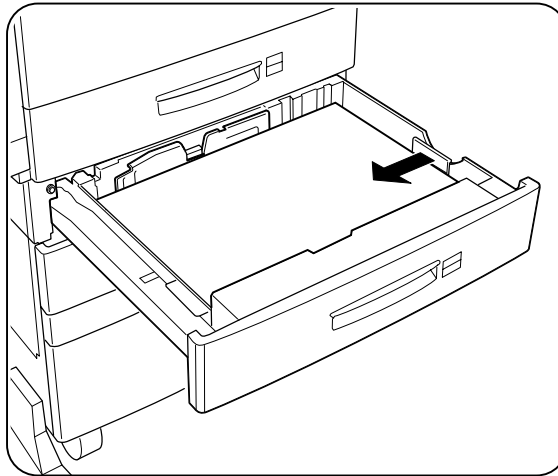


NOTE: Adjust the guide to the paper size correctly; otherwise paper may not be transported correctly and may result in a paper jam.

7. Align the edges of the paper stack

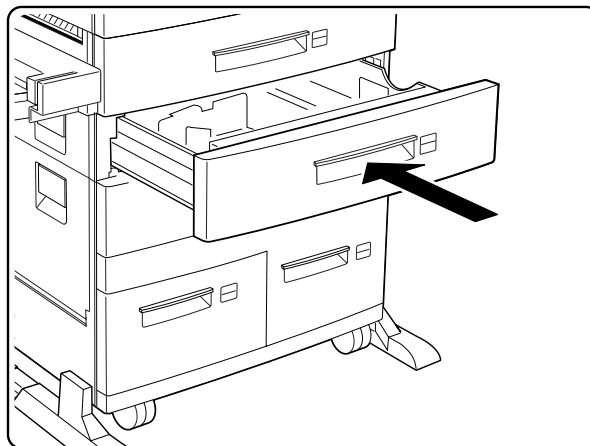


8. Adjust the length guide to the paper length.



NOTE: Make sure the guide stopper is locked firmly in the guide hole on the bottom of the cassette. Adjust the guide to the paper size correctly otherwise paper may not be transported correctly and may result in a paper jam.

9. Insert a correct paper size label into the paper size slot on the cassette, then push the cassette all the way back into the printer until it latches.



Using the Multi-purpose Bypass Feeder (MBF)

The Multi-purpose Bypass Feeder can be configured to operate like another input tray or as a Manual Feed tray. To configure the MBF for Manual Feed you must set the "Paper Menu, Manual Feed" setting to ON. The factory default setting is OFF, meaning the MBF is configured like another input tray. See ["Chapter 2 Understanding and Navigating the Control Panel"](#)

Unlike the other input trays, the MBF cannot automatically detect the paper size being used. Therefore, whenever using the MBF, you must set the Media Size and Media Type settings in the Paper Menu to match the media you are using. The factory default settings are:

Media Size = Letter

Media Type = Plain.

When using the MBF as another input tray, the MBF will automatically select single sheets as needed. When using the MBF in Manual Feed mode, the user must manually insert one sheet at a time, or if multiple sheets are inserted, press the Start/Stop pushbutton to allow each sheet to be fed.

Connecting the Parallel Cable

1. Attach an optional parallel cable to the parallel port on the rear of your printer.
2. Attach the other end of the parallel cable to the parallel port on your PC or workstation.

Connecting the Ethernet Cable

1. Attach appropriate cable to your Ethernet hub.
2. Attach the opposite end of the cable to the ethernet port on the printer.

Connecting the Power Cord

Connect the printer to an AC outlet as described below.



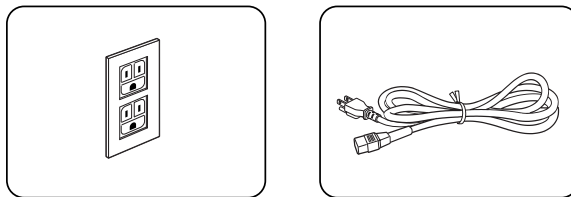
WARNING: To prevent the risk of electric shock, never touch the power cord or plug with wet hands.



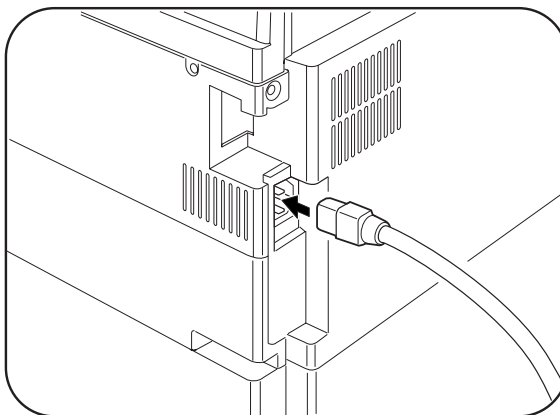
CAUTION: When disconnecting the power cord, always grasp the plug and do not pull at the cable. Damage to the cord can lead to fire and electric shock.

- Do not plug the printer into an AC outlet with incorrect voltage.
- Do not use any multi-extension cord connector otherwise there is a risk of fire and electric shock.
- Do not use extension cords with rated current less than 124V 15A. Never use extension cords with low capacity, or extreme heat or flame may result. Consult your dealer on the correct type of extension cord to use.
- Do not damage or modify the extension cord. Also, do not bend, pull, or place heavy objects on the extension cord otherwise the extension cord may be damaged and result in fire hazard or electric shock.
- See "Safety Notes" on page A-2.

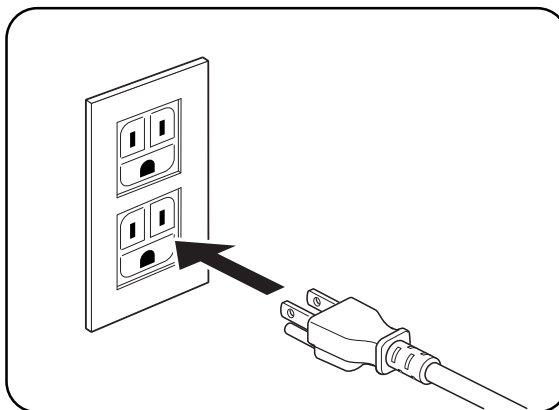
AC outlet Powercord



1. Insert the power cord into the AC connector on the printer
2. Verify that the power switch of the printer is set to the [O] (off) position then insert the plug of the power cord into the AC outlet.

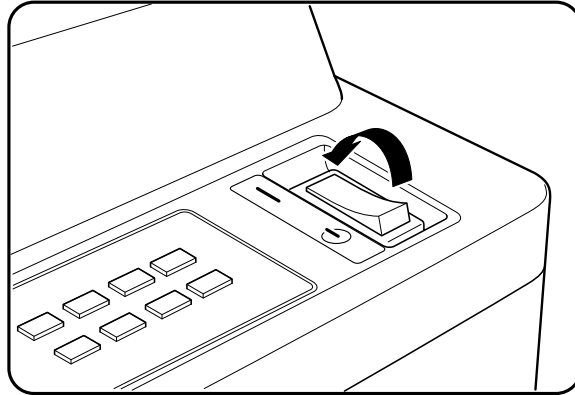


3. Connect the power cord to the outlet.



Turning the Printer On

Set the power switch to the [I] position to turn on the printer.



The top line of the LCD display reads:

Loading

followed by asterisks progressing across the bottom line:

Following a LED self test, asterisks progress across both lines of the display

and the Power On Self Test ends with the top line of the display reading:

Ready

NOTE: While turned on, the printer will go into the standby state if it remains idle for a period of time. If an error message appears, see "Control Panel LCD Messages" on page 8-20 in the *PageMaster 450 User's Guide* located on the *Compuprint Page Master 450 Electronic Library*.

Selecting a Display Language

The default language for all LCD display messages and the Configuration Summary and Test Page is English. You can change the default language to Espanol, Italiano, Deutsch or Francais.

NOTE: The language that you select will be reflected on all LCD display messages, and also the content of the Configuration Summary and Test Page.

To change the default language from English to one of the other four available selections:

1. From the Ready status, press MENU, the control panel display will read:

Menu

Paper

2. Press PREVIOUS or NEXT until the display reads:

Menu

System Menu

3. Press SELECT, the display will read:

System Menu

Factory Defaults

4. Press NEXT or PREVIOUS until the display reads:

System Menu

Display Language

5. Press SELECT, the display will read:

System Menu

English

6. Press NEXT or PREVIOUS until the desired default language appears on the bottom line of the display:

7. Press SELECT. You have now changed the default language.

Installing Printer Drivers and Locating User Documentation

Installing Printer Drivers and other Software for UNIX and Windows

To install printer drivers and other software for UNIX and Windows, go to the SOFTWARE folder located on the Electronic Library CD-ROM. The SOFTWARE folder contains the following subfolders:

- Drivers Folder

The Drivers folder contains all of the printer drivers necessary to print from Windows 3.1 and 95/98, and Windows NT 3.5.1 and 4.0, and Windows 2000 systems. Refer to the DRIVERS.TXT file included in this folder for more information about installing and using driver software.

- EZWebCon Folder

The EZWebCon folder contains the EZWebCon software used to configure and manage your Network Interface Card. Refer to the README.TXT file included in this folder for more information about installing and using EZWebCon.

- NetPort Folder

The NetPort folder contains the network port software that allows you to print directly from Windows 95/98 and Intel Windows NT 4.0 systems. Refer to the README.TXT file included in this folder for more information about installing and using this software.

- PFDload Folder

The PFDload folder contains information about downloading printer firmware updates. Refer to the README.TXT file included in this folder for more information.

- UnixSW Folder

The UnixSW folder contains Compuprint UNIX Printing Software, which is an enhanced print filter and network socket driver that allows you to take advantage of all of the printing features of your printer. Refer to the INSTSALL.PDF file included in this folder for more information about installing and using Compuprint UNIX Printing Software.

Installing Printer Drivers for MacOS

To install printer drivers for MacOS, refer to the following folder on the Electronic Library CD-ROM:

- Compuprint Printer Driver folder

The Printer Driver folder contains the AdobePS driver installation kit and PPD file for the printer. These items are available in English, German, French, Italian, and Spanish.

Locating User Documentation

To locate other documentation that will assist you in operating and maintaining your printer, go to the MANUALS folder on the Electronic Library CD-ROM. You can open and read these manuals directly from the CD-ROM, save the manuals to the hard drive of your computer, or print the manuals. The MANUALS folder includes the following documents in Adobe PDF format:

- User Guide
- Printer Installation Guide (English, French, German, Italian, Spanish)
- Other installation and user guides for printer options

Refer to the README.TXT file (UNIX and Windows) or the Read Me First file (MacOS) included in the MANUALS folder for more information about the documentation.

Printing a Configuration Summary

Your printer can print a configuration summary that lists the currently selected status of menu options, media selections in trays, options installed and other relevant information about your printer. To print a Configuration Summary, follow these steps:

1. From the Ready status, press MENU, the control panel display will read:

Menu

Paper

2. Press PREVIOUS or NEXT until the display reads:

Menu

Functions

3. Press SELECT, the display will read:

Functions

Reset Printer

4. Press NEXT or PREVIOUS until the display reads:

Functions

Print Summary

5. Press SELECT. A two page Configuration Summary will print. An example of a Configuration Summary appears on the following page.

NOTE: Depending upon the options installed and menu settings, your Configuration Summary may vary.

System Menu cont'd
Alarm Control = Single

OPTIONS

Compuprint PageMaster 450

MENUS

Paper Menu
Copies = 1
Duplex = Off
Duplex Bind = Long Edge
Default Source = Tray 4
Manual Feed = Off
Output Tray = Face Down Tray

Media Size/Type
MBF
Media Size = Letter LEF
Media Type = Plain

Tray 1
Media Type = Plain

Tray 2
Media Type = Plain

Tray 3
Media Type = Plain

Tray 4
Media Type = Plain

Tray 5
Media Type = Plain

Tray Linking = On
Job Offset = On
Blank Pages = Print
Staple Mode = Off
Face Up Inst = No
Hole Punch = Off
MBF First = Off

Interface Menu
Port
Parallel = On
Network Card 1 = On

Parallel Setup
Interpreter = Auto Switch
Format = Raw
Mode = Bidirectional
Delay Out Close = Off

Network 1 Setup
Interpreter = Auto Switch
Format = Raw

Network Channel
Network = On
DEC LAT = On
AppleTalk = On
TCP/IP = On
Network Address = 005027005896
IP Address = 000.000.000.000
Subnet Mask = 255.000.000.000

Network 1 Setup cont'd
Default Router = 000.000.000.000
LPD Banner = On
DHCP = On
Network Frame = Auto-Sense
Delay Out Close = Off


PS Menu
Print PS Errors = Off
Manual Feed TO = 0


PCL Menu
Orientation = Portrait
Font Source = Internal
Font Number = 0
Pitch = 10.00
Symbol Set = 10U;PC-8 CP437
Macro Filter = Off
Lines Per Page = 59
CR Mode = CR=CR
LF Mode = LF=LF
FF Mode = FF=FF
Print Area = Normal

Parameter Values
Paper Source
MBF = 8
Tray 1 = 1
Tray 2 = 4
Tray 3 = 5
Tray 4 = 20
Tray 5 = 21
Auto-Select = 7

Paper Size
Executive = 1
Letter = 2
Legal = 3
Statement = 4
Folio = 5
Ledger = 6
A6 = 24
A5 = 25
A4 = 26
B5 = 45
B4 = 46
Monarch Envelope = 80
Com10 Envelope = 81
DL Envelope = 90
C5 Envelope = 91

System Menu
Display Language = English


 Adobe PostScript 3



Printing a Test Page

Your printer can print a test page that lists the indicates, grey scale, resolution settings, page counter, and other relevant information about your printer. To print a Test Page, follow these steps:

1. From the Ready status, press MENU, the control panel display will read:

Menu
Paper Menu

2. Press PREVIOUS or NEXT until the display reads:

Menu
Functions

3. Press SELECT, the display will read:

Functions
Reset Printer

4. Press NEXT or PREVIOUS until the display reads:

Functions
Print Test

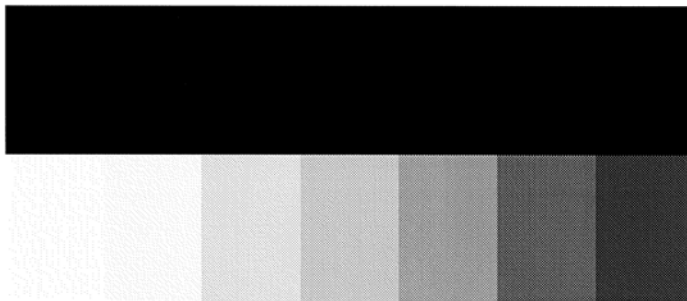
5. Press SELECT, the display will read:

Print Test
Single

6. Press SELECT. A single page Test Page will print. An example of a Test Page appears on the following page.

NOTE: The size of the Test Page will match the size of the default paper size selected.

Compuprint PageMaster 450
Test Print



Resolution : 600 dpi
Enhancement : None
Toner Saver : Off
Image Counter : 11525

Resolution : 600 dpi
Enhancement : None
Toner Saver : Off
Image Counter : 11525

[illegible]

Adobe® PostScript® 3™

Compuprint

Printing PCL and PostScript Font Lists

Your printer has the capability of printing lists of all installed PCL or PostScript fonts. To print a Font List, follow these steps:

1. From the Ready status, press MENU, the control panel display will read:

Menu
Paper Menu

2. Press PREVIOUS or NEXT until the display reads:

Menu
Functions

3. Press SELECT, the display will read:

Functions
Reset Printer

4. Press NEXT or PREVIOUS until the display reads:

Functions
Print Fonts

5. Press SELECT, the display will read:

Print Fonts
PCL Fonts

NOTE: You may toggle between PCL Fonts and Postscript Fonts using the PREVIOUS or NEXT push-buttons.

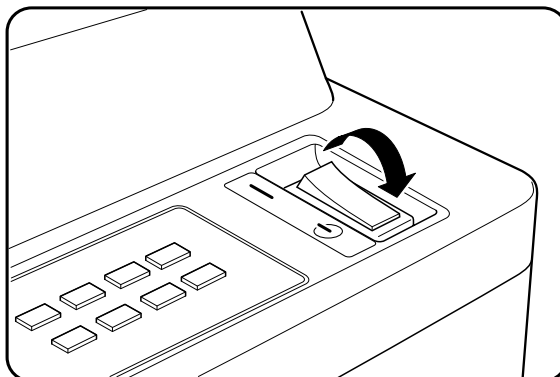
6. Press SELECT. A multi page resident Font List will print. Examples of a PCL and PostScript Font Lists appears in Appendix C of the *PageMaster 450 User's Guide* located on the *Compuprint Page Master 450 Electronic Library*.

Turning the Printer Off

Remember to turn off the printer at the end of day or when the printer will not be used for an extended period of time.

NOTE: When the printer is turned off, all print data still in memory will be erased.

Set the power switch to the [0] position to turn off the printer.



◆ ◆ ◆

Chapter 2

Understanding and Navigating the Control Panel

In this Chapter . . .

- “About this Chapter” on page 2-2
- “Control Panel Features” on page 2-2
- “Navigating the Control Panel Menus” on page 2-4
- “Menu Structure” on page 2-6

About this Chapter

This chapter explains the control panel and its functions, and also demonstrates how to navigate through the control panel menus and submenus that allow you to view and change the printer settings.

Control Panel Features

The control panel is located on the front of the printer, and contains the display, indicators, and pushbuttons that allow you to view and change the printer settings.

The figure below shows the control panel features.

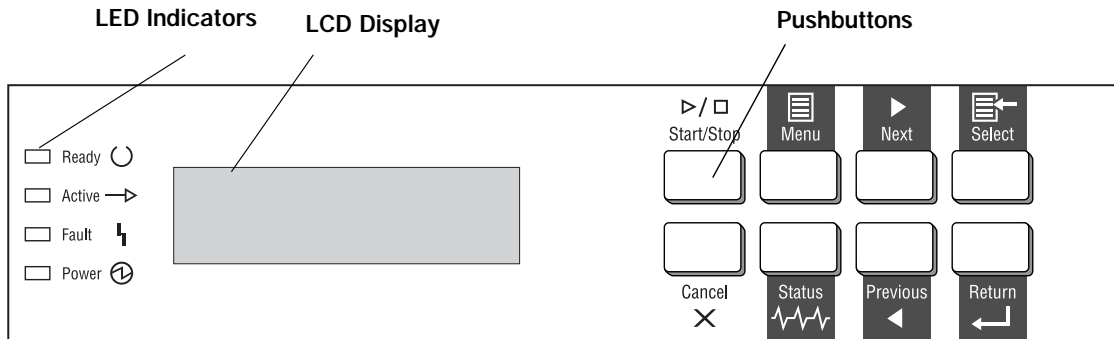


Figure 2-1: Control Panel.



LCD Display

The LCD display shows status and error messages that inform you of the current status of the printer, and also displays menus, submenus, and printer settings when you are in the menu system. The display contains two lines of text, each with a maximum of sixteen characters.

LED Indicators









The LED indicators also indicate printer status. The four indicators can each be on, off, or blinking, indicating different phases of printer operation. The table below explains the LED indicators.

LED	COLOR	WHEN OFF	WHEN ON	WHEN BLINKING
Ready	Green	Printer is NOT READY	Printer is READY	N/A
Active	Green	Printer is IDLE	Printer is ACTIVE (processing a job)	Printer is WAITING (a partial job has been printed, and the printer is waiting for additional job data)

LED	COLOR	WHEN OFF	WHEN ON	WHEN BLINKING
Fault 	Yellow	Printer is not in error mode	There is an error that requires user intervention, such as a paper jam, a service call required, etc.	N/A
Power 	Green	POWER is off	POWER is on	Power Saver Mode ON

Pushbuttons

The control panel pushbuttons allow you to access and navigate menus, and also assist you in recovering from printer errors. The table below explains the functions of the eight pushbuttons.

PUSHBUTTON	FUNCTION
 Start/Stop	START/STOP—Push this button to start or stop the printer, or to exit the menu system.
 Menu	MENU—Push this button to enter the menu system.
 Next	NEXT—Push this button to move to the next menu, submenu, or setting within the same level of the menu structure.
 Select	SELECT—Push this button to select the menu or submenu that is shown on the second line of the display or to choose and save the setting shown on the second line of the display.
Cancel 	CANCEL—Push this button to cancel an action.
 Status	STATUS—Push this button to enter the Status Menu and view the current status of printer.
 Previous	PREVIOUS—Push this button to return to the previous menu, submenu, or option within the same level of the menu structure.
 Return	RETURN—Push this button to move up one level in the menu structure to the menu shown on the first line of the display.

Navigating the Control Panel Menus

When you press the **MENU** button on the control panel, you enter the printer's menu system. At that point, the first line of the display contains the text "**Menu**", indicating that you are in the menu system. The second line of the display lists the active menu, which you can change by pressing the **NEXT** or **PREVIOUS** button.



Menu
Paper Menu

If you press the **NEXT** button repeatedly, the second line of the display cycles through the main menus in the following order:

- Paper Menu
- Interface Menu
- PS Menu
- PCL Menu
- System Menu
- Quality Menu
- Functions
- Status

NOTE: Additional menus and submenus may appear in the printer menu system when other options are installed.

The following figure shows the sequence of pushbuttons and display messages that would allow you to change the number of copies printed. This example illustrates the basic relationship between menus and sub-menus and demonstrates how the **NEXT**, **PREVIOUS**, **SELECT**, and **RETURN** buttons help you to navigate through the menus.

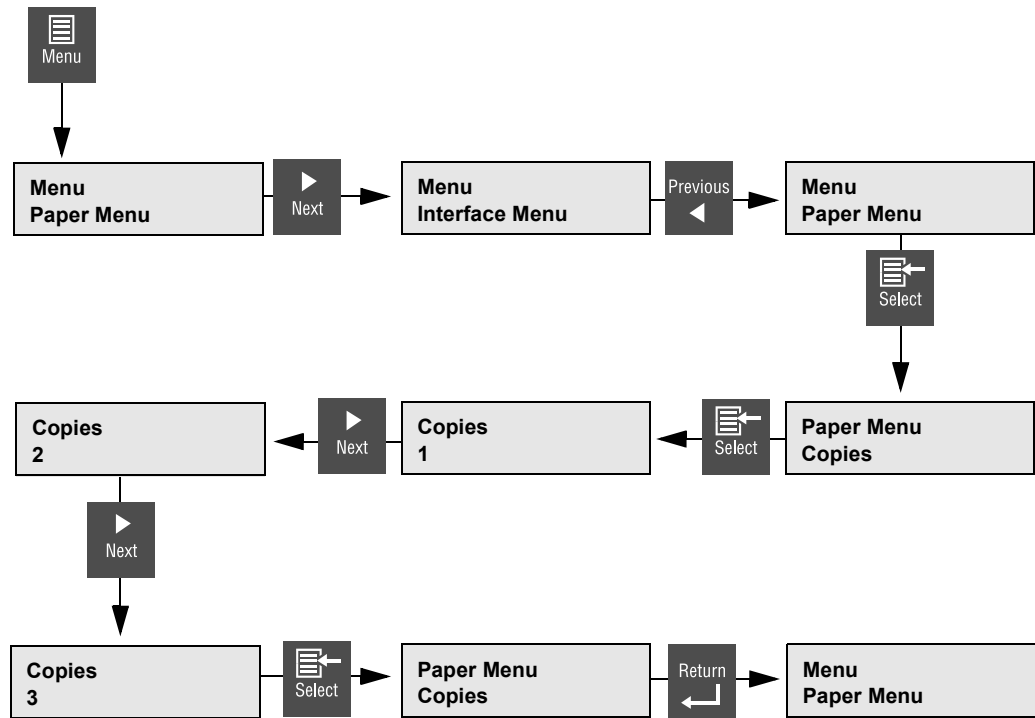


Figure 2-2: Navigating the Paper Menu.

1. Press the **MENU** button on the control panel.
2. Press the **NEXT** button until the text “**Paper Menu**” is shown on the second line of the display.
3. Press the **SELECT** button to enter the paper menu.
4. Press the **NEXT** button until the text “**Copies**” is shown on the second line of the display.
5. Press the **SELECT** button to enter the copies submenu.
6. Press the **NEXT** or **PREVIOUS** button to increase or decrease the number of copies printed.
7. Press the **SELECT** button to save this setting.
8. Press the **START/STOP** button to exit the menu system.

Menu Structure

The following figure shows the structure of the control panel main menus and submenus. For more specific information about using and navigating the printer menu system, see the User Guide provided on the Electronic Library CD-ROM.

Paper Menu Copies Default Source Manual Feed Output Tray Media Size/Type MBF Tray 1 Tray 2 Tray 3 (optional) Tray 4 (optional) Tray 5 (optional) Tray Linking Job Offset Blank Pages Face Up Inst MBF First	Interface Menu Port Parallel Network 1 Parallel Setup Interpreter Format Mode Network 1 Setup Interpreter Format Network Channel Network Address IP Address Subnet Mask Default Router LPD Banner DHCP Netware Frame Delay Out Close	PS Menu Print PS Errors Manual Feed TO	PCL Menu Orientation Font Source Font Number Pitch Symbol Set Macro Filter Lines Per Page CR Mode LF Mode FF Mode Print Area Parameter Values Paper Source Paper Size
System Menu Factory Defaults Display Language Alarm Control Power Saver Standby Time Wait Timeout Job Timeout Jam Recovery Hex Print Toner Out	Quality Menu Resolution Enhancement Toner Saver Print Density	Functions Reset Printer Print Summary Print Test Print Fonts	

Figure 2-3: Printer Menu Structure.

NOTE: Additional menus and submenus may appear in the printer menu system when other options are installed.

Status Menu

In addition to the main menus listed above, the printer also provides a status menu that allows you to view the current printer settings.

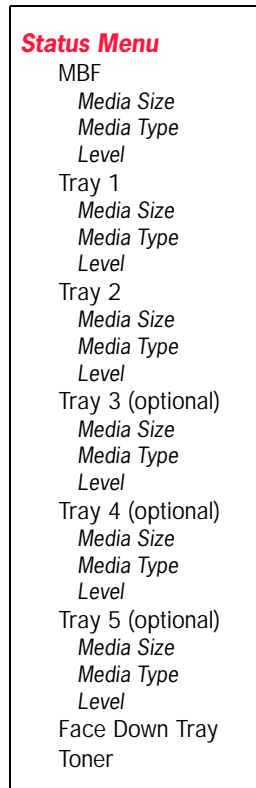


Figure 2-4: Status Menu.



Chapter 3

Troubleshooting

In this Chapter . . .

- “About this Chapter” on page 3-2
- “Solving Printer Power-on Problems” on page 3-2
- “Control Panel LCD Messages” on page 3-3

About this Chapter

Explains procedures to isolate and solve problems that may occur during the installation of your printer. Control panel LCD error messages are also discussed in this chapter.

NOTE: This chapter provides troubleshooting information to assist you with the installation of your printer. Detailed troubleshooting information can be found in your printer's User Manual located on the CD-ROM the shipped with your printer.

Solving Printer Power-on Problems

This section describes problems that can occur when starting up the printer. If the trouble persists after performing the checks listed below, turn the printer off [O], disconnect the power cord from the AC outlet, and contact Compuprint to arrange for a technical support or service or repair call.



CAUTION: To prevent the risk of fire or smoke generation, do not attempt to modify the printer in any way.



WARNING: Before cleaning the printer or performing any other maintenance, be sure to turn the printer off [O], and disconnect the power cord from the AC outlet to prevent the risk of electric shock.

DESCRIPTION	POSSIBLE CAUSE	REQUIRED ACTION
No power.	Power switch not turned on. Switch is not set to [I].	Check power switch. See "Chapter 1 Unpacking and Installing Your Printer" for more information
	Power cord not properly plugged into AC outlet or AC connector on rear of printer	Set power switch to [O] (off) and plug in power cord firmly. See "Chapter 1 Unpacking and Installing Your Printer" for more information.
	Voltage of AC power line not correct.	Verify that AC outlet is rated for the correct voltage and amperage of your printer. See "Chapter 1 Unpacking and Installing Your Printer" for more information.
Power is frequently interrupted	Printer is defective	Turn printer off [O], disconnect power cord from the AC outlet. Contact Compuprint to arrange for a technical support or service or repair call.

Control Panel LCD Messages

LCD messages involving troubleshooting are classified into nine numeric code classes (1 through 9) and an additional alphanumeric class. These code classes have no significance to you as a user of this printer. These class codes are designed specifically for assisting service and repair personnel. When reporting problems make note of the error message by code class.

Code Class 1

LCD MESSAGE (LINE 1)	LCD MESSAGE (LINE 2)	CAUSE OF ERROR MESSAGE	REQUIRED ACTION
1-1 MAIN MOTOR	CALL SERVICE	Main Motor Rotation Failure	Service Call required
1-1 PAPER JAM	CLEAR AREA A	Paper jam in Area A	Clear Paper Jam in Area A
1-1 TRAY ERROR	CHECK TRAY 1	Tray 1 trouble (see note 1)	Ensure that Tray 1 is loaded correctly and securely closed.
1-2 TONER EMPTY	REPLACE TONER	Toner cartridge Empty	Replace Toner Cartridge
1-2 PAPER JAM	CLEAR AREA A	Paper jam in Area A	Clear Paper Jam in Area A
1-2 TRAY ERROR	CHECK TRAY 2	Tray 2 trouble (see note 1)	Ensure that Tray 2 is loaded correctly and securely closed.
1-3 FEED ERROR	AREA A/TRAY 1	Tray 1 paper misfeed	Clear paper misfeed from Tray 1, Area A
1-3 LVPS FAN	CALL SERVICE	LVPS FAN Rotation Failure	Service Call required
1-3 PAPER JAM	CLEAR AREA A	Paper jam in Area A	Clear Paper Jam in Area A
1-3 TRAY ERROR	CHECK TRAY 3	Tray 3 trouble (see note 1)	Ensure that Tray 3 is loaded correctly and securely closed.
1-4 DRUM MOTOR	CALL SERVICE	Drum Motor Rotation Failure	Service Call Required
1-4 TRAY ERROR	CHECK TRAY 4	Tray 4 trouble (see note 1)	Ensure that Tray 4 is loaded correctly and securely closed
1-5 TRAY ERROR	CHECK TRAY 5	Tray 5 trouble (see note 1)	Ensure that Tray 5 is loaded correctly and securely closed.
1-6 PAPER JAM	CLEAR AREA A	Paper jam in Area A	Clear Paper Jam in Area A

Code Class 2

LCD MESSAGE (LINE 1)	LCD MESSAGE (LINE 2)	CAUSE OF ERROR MESSAGE	REQUIRED ACTION
2-2 FEED ERROR	AREA B / TRAY 2	Tray 2 paper misfeed	Clear paper misfeed from Tray 1 or Area A
2-3 FEED ERROR	CLEAR AREA A	Tray 2 paper misfeed	Clear paper misfeed from Tray 2 or Area A
2-7 DUPLEX COMM	CALL SERVICE	Duplexer Communications failure (see note 2)	Check Duplexer Cabling – Service Call required
2-8 DUPLEX ERROR	CALL SERVICE	Wrong model duplexer installed	Service Call required

Code Class 3

LCD MESSAGE (LINE 1)	LCD MESSAGE (LINE 2)	CAUSE OF ERROR MESSAGE	REQUIRED ACTION
3-1 NO CARTRIDGE	RESET TONER CART	Toner cartridge not set correctly	Reset Toner Cartridge
3-1 FEED ERROR	AREA B / TRAY 3	Tray 3 paper misfeed	Clear paper misfeed from Tray 3 or Area B
3-1 PAPER JAM	CLEAR AREA A	Paper jam in Area A	Clear Paper Jam in Area A
3-1 ROS ERROR	CALL SERVICE	ROS ASIC Failure	Service Call required
3-2 FEED ERROR	CLEAR AREA B	Tray 3 paper misfeed	Clear paper misfeed from Area B
3-3 FEED ERROR	CLEAR AREA B	Tray 3 paper misfeed	Clear paper misfeed from Area B
3-3 ROS ERROR	CALL SERVICE	Beam detect interval too long	Service Call required
3-4 ROS ERROR	CALL SERVICE	Beam detect interval too short	Service Call required
3-5 ROS ERROR	CALL SERVICE	ROS Motor Rotation Failure	Service Call required
3-6 PAPER JAM	CLEAR AREA A	Paper jam in Area A	Clear Paper Jam in Area A

Code Class 4

LCD MESSAGE (LINE 1)	LCD MESSAGE (LINE 2)	CAUSE OF ERROR MESSAGE	REQUIRED ACTION
4-0 FEED ERROR	AREA C/TRAY 4	Tray 4 paper misfeed	Clear paper misfeed from Tray 4 or Area C
4-1 FEED ERROR	AREA C/AREA B	Tray 4 paper misfeed	Clear paper misfeed from Tray 4, Area C or Area B
4-1 FUSER ERROR	CALL SERVICE	Fuser temperature setting out of control (On Time Fail)	Service Call required
4-1 IRREG. PAPER	CHECK TRAY 1	Irregular paper in Tray 1 (see note 1)	Ensure the correct paper is loaded in Tray 1
4-1 PAPER JAM	CLEAR AREA A	Paper jam in Area A	Clear Paper Jam in Area A
4-2 FEED ERROR	AREA C/AREA B	Tray 4 paper misfeed	Clear paper misfeed from Tray 4, Area C or Area B
4-2 FUSER ERROR	CALL SERVICE	Fuser overheat trouble detected	Service Call required
4-2 IRREG. PAPER	CHECK TRAY 2	Irregular paper in Tray 2 (see note 1)	Ensure the correct paper is loaded in Tray 2
4-2 PAPER JAM	CLEAR AREA A	Paper jam in Area A	Clear Paper Jam in Area A
4-3 FEED ERROR	CLEAR AREA B	Tray 4 paper misfeed	Clear paper misfeed from Tray 4 or Area B
4-3 FUSER ERROR	CALL SERVICE	Outboard Fuser temperature cannot be monitored	Service Call required
4-3 IRREG. PAPER	CHECK TRAY 3	Irregular paper in Tray 3 (see note 1)	Ensure the correct paper is loaded in Tray 3
4-3 PAPER JAM	CLEAR AREA A	Paper jam in Area A	Clear Paper Jam in Area A
4-4 FUSER ERROR	CALL SERVICE	Inboard Fuser temperature cannot be monitored	Service Call required
4-4 IRREG. PAPER	CHECK TRAY 4	Irregular paper in Tray 4 (see note 1)	Ensure the correct paper is loaded in Tray 4

4-5 FUSER ERROR	CALL SERVICE	Abnormally high Fuser temperature	Service Call required
4-5 IRREG. PAPER	CHECK TRAY 5	Irregular paper in Tray 5 (see note 1)	Ensure the correct paper is loaded in Tray 5
4-5 PAPER JAM	CLEAR AREA A	Paper jam in Area A	Clear Paper Jam in Area A
4-6 PAPER JAM	CLEAR AREA A	Paper jam in Area A	Clear Paper Jam in Area A
4-9 FUSER ERROR	CALL SERVICE	Fuser fan defective	Service Call required
4-11 FINISH JAM	CLEAR AREA E	Paper didn't pass TRANSPORT entry sensor in specified time after reaching the sensor	Clear paper jam in Area E
4-12 FINISH JAM	CLEAR AREA E	Paper didn't reach TRANSPORT entry sensor in specified time after passing fuser exit sensor	Clear paper jam in Area E
4-13 FINISH JAM	CLEAR AREA E	TRANSPORT entry sensor switched on while initializing finisher	Clear paper jam in Area E
4-16 FINISH JAM	CLEAR AREA E	Remaining paper detected at TRANSPORT entry sensor	Clear paper jam in Area E
4-21 FINISH JAM	CLEAR AREA F	Paper didn't pass TRANSPORT exit sensor in specified time after reaching the sensor	Clear paper jam in Area F
4-22 FINISH JAM	CLEAR AREA F	Paper didn't reach TRANSPORT exit sensor in specified time after passing the TRANSPORT exit sensor.	Clear paper jam in Area F
4-23 FINISH JAM	CLEAR AREA F	TRANSPORT exit sensor switched on while initializing finisher	Clear paper jam in Area F

4-26 FINISH JAM	CLEAR AREA F	Remaining paper detected on TRANSPORT exit sensor	Clear paper jam in Area F
4-31 FINISH JAM	CLEAR AREA F	Paper does not pass finisher input path sensor within specified time after reaching the sensor	Clear paper jam in Area F
4-32 FINISH JAM	CLEAR AREA F	Paper does not reach finisher input path sensor in specified time after reaching TRANSPORT exit sensor	Clear paper jam in Area F
4-36 FINISH JAM	CLEAR AREA G	Remaining paper detected on finisher input path sensor	Clear paper jam in Area F
4-41 FINISH JAM	CLEAR AREA G	Paper did not pass through finisher path sensor	Open finisher front cover - Clear paper jam in Area G
4-42 FINISH JAM	CLEAR AREA G	Paper did not reach finisher path sensor	Open finisher front cover - Clear paper jam in Area G
4-46 FINISH JAM	CLEAR AREA G	Remaining paper detected at finisher path sensor	Open finisher front cover - Clear paper jam in Area G
4-51 FINISH JAM	CLEAR AREA G	Paper did not pass through finisher exit path sensor	Open finisher front cover - Clear paper jam in Area G
4-52 FINISH JAM	CLEAR AREA G	Paper did not reach finisher exit path sensor	Open finisher front cover - Clear paper jam in Area G
4-56 FINISH JAM	CLEAR AREA G	Remaining paper detected at finisher exit path sensor	Open finisher front cover - Clear paper jam in Area G
4-61 FINISH JAM	CLEAR AREA H	Paper did not pass through compile tray exit path sensor	Clear paper jam in Area H
4-66 FINISH JAM	CLEAR AREA H	Remaining paper detected at compile tray exit path sensor	Clear paper jam in Area H

Code Class 5

LCD MESSAGE (LINE 1)	LCD MESSAGE (LINE 2)	CAUSE OF ERROR MESSAGE	REQUIRED ACTION
5-0 FEED ERROR	AREA C/TRAY 5	Tray 5 paper misfeed	Clear paper misfeed from Tray 5 or Area C
5-1 COVER OPEN	CLOSE COVER A	Printer cover A open	Close printer cover A
5-1 COVER OPEN	CLOSE FRONT COVER	Printer front cover open	Close printer front cover
5-1 FEED ERROR	AREA C/AREA B	Tray 5 paper misfeed	Clear paper misfeed from Tray 5, Area C or Area B
5-2 COVER OPEN	CLOSE COVER B	Printer cover B open	Close printer cover B
5-2 FEED ERROR	AREA C/AREA B	Tray 5 paper misfeed	Clear paper misfeed from Tray 5, Area C or Area B
5-3 FEED ERROR	AREA A/AREA B	Tray 5 paper misfeed	Clear paper misfeed from Tray 5, Area A or Area B
5-4 FEED ERROR	AREA C/TRAY 5	Tray 5 paper misfeed	Clear paper misfeed from Tray 5 or Area C
5-11 FIN ERROR	CALL SERVICE	Finisher Stacker tray failure (see note 3)	Service Call required
5-21 FIN ERROR	CALL SERVICE	Finisher Jogger front failure (see note 3)	Service Call required
5-22 FIN ERROR	CALL SERVICE	Finisher Jogger rear failure (see note 3)	Service Call required
5-81 FIN ERROR	CALL SERVICE	Finisher exit roller failure (see note 3)	Service Call required
5-83 FIN ERROR	CALL SERVICE	Finisher roller shift failure (see note 3)	Service Call required
5-87 FIN ERROR	CALL SERVICE	Finisher Punch failure (see note 3)	Service Call required
5-91 FIN ERROR	CALL SERVICE	Finisher Stapler failure (see note 3)	Service Call required

5-92 FIN ERROR	CALL SERVICE	Finisher Stapler head home sensor failure (see note 3)	Service Call required
5-93 FIN ERROR	CALL SERVICE	Finisher Stapler front position failure (see note 3)	Service Call required
5-94 FIN ERROR	CALL SERVICE	Finisher Stapler dual position failure (see note 3)	Service Call required
5-95 FIN ERROR	CALL SERVICE	Finisher Stapler rear position failure (see note 3)	Service Call required
5-96 FIN ERROR	CALL SERVICE	Finisher Stapler swing failure (see note 3)	Service Call required

Code Class 6

LCD MESSAGE (LINE 1)	LCD MESSAGE (LINE 2)	CAUSE OF ERROR MESSAGE	REQUIRED ACTION
6-1 COVER OPEN	CLOSE COVER C	HCF cover C open	Close HCF cover C
6-1 TONER EOL	REPLACE TONER	Toner Cartridge end-of-life	Replace Toner Cartridge
6-1 FEED ERROR	CLEAR DUPLEXER	Paper misfeed from duplexer	Clear paper misfeed from Duplexer
6-1 GATE OPEN	CHECK GATE IN	Gate Cover is open	Close Gate Cover
6-2 COVER OPEN	CLOSE DOOR F	Transport Cover is open	Close Transport Cover - Door F
6-2 RAM ERROR	CALL SERVICE	RAM Read/Write Error	Service Call required
6-3 NVRAM ERROR	CALL SERVICE	NVM breakdown	Service Call required
6-4 NVRAM ERROR	CALL SERVICE	NVM Read/Write error	Service Call required
6-5 MCU ERROR	CALL SERVICE	MCU ASIC circuit to control CRUM is defective	Service Call required
6-7 FIN ERROR	CALL SERVICE	Finisher Communications error (see note 2)	Check Finisher Cabling - Service Call required
6-8 FIN ERROR	CALL SERVICE	Wrong model finisher installed	Service Call required

Code Class 7

LCD MESSAGE (LINE 1)	LCD MESSAGE (LINE 2)	CAUSE OF ERROR MESSAGE	REQUIRED ACTION
7-1 COVER OPEN	CLOSE DOOR G	Finisher front cover is open	Close Finisher front cover – Door G
7-2 COVER OPEN	FIN. TOP DOOR	Finisher top cover open	Close Finisher top door
7-3 DUPLEX OPEN	CLOSE DUPLEXER	Duplexer cover open	Close duplexer cover
7-3 FIN EXIT SW	CHECK FIN EXIT	Finisher Exit Roller Unit is open	Close Finisher Exit Roller Unit
7-3 HCF ERROR	CALL SERVICE	Cannot Read/Write HCF NVM	Service Call required
7-4 HCF ERROR	CALL SERVICE	HCF NVM failure	Service Call required
7-7 HCF ERROR	CALL SERVICE	Communications error between MCU and HCF (see note 2)	Check HCF Cabling - Service Call required
7-71 FINISH JAM	CLEAR TOP TRAY	Paper did not pass the top tray exit path sensor	Clear paper jam finisher top tray
7-72 FINISH JAM	CLEAR TOP TRAY	Paper did not reach top tray exit path sensor	Clear paper jam finisher top tray
7-73 FINISH JAM	CLEAR TOP TRAY	Top tray exit path sensor on while finisher is being initialized	Clear paper jam finisher top tray
7-76 FINISH JAM	CLEAR TOP TRAY	Remaining paper is detected by top tray exit path sensor	Clear paper jam finisher top tray

Code Class 8

LCD MESSAGE (LINE 1)	LCD MESSAGE (LINE 2)	CAUSE OF ERROR MESSAGE	REQUIRED ACTION
8-1 FEED ERROR	CHECK ENVELOPE	Remaining paper detected in ENV area	Clear paper misfeed from Envelope Feeder
8-1 FIN DOCKING	CHECK FINISHER	Finisher docking incorrect	Check Finishing Docking
8-1 TONER TYPE	ID MISMATCH	Toner cartridge OEM ID mismatch	Replace Toner Cartridge
8-1 PAPER JAM	CHECK DUPLEXER	Paper jam in Duplexer	Clear paper jam in Duplexer
8-2 FEED ERROR	AREA A, B/TRAY 2	Remaining paper detected near Tray 2	Clear paper misfeed from or Area A, Area B or Tray 2
8-2 PAPER JAM	CLEAR DUPLEXER	Paper jam in Duplexer	Clear paper jam in Duplexer
8-3 TONER CART	RESET TONER CART	CRUM read/write error	Reset Toner Cartridge
8-3 FEED ERROR	CLEAR AREA B	Remaining paper detected near Tray 3	Clear paper misfeed from Area B
8-4 TONER CART	RESET TONER CART	CRUM Communications error	Reset Toner Cartridge
8-4 FEED ERROR	CLEAR AREA C	Remaining paper detected near Tray 4	Clear paper misfeed from Area C
8-5 TONER CART	REPLACE TONER	Invalid CRUM error	Reset Toner Cartridge
8-5 FEED ERROR	AREA C/TRAY 5	Remaining paper detected near Tray 5	Clear paper misfeed from Area C or Tray 5
8-6 FEED ERROR	CLEAR DUPLEXER	Remaining paper detected in Duplexer	Clear Duplexer
8-6 PAPER JAM	CLEAR DUPLEXER	Paper Jam in Duplexer	Clear paper jam in Duplexer

Code Class 9

LCD MESSAGE (LINE 1)	LCD MESSAGE (LINE 2)	CAUSE OF ERROR MESSAGE	REQUIRED ACTION
9-1 FEED ERROR	CHECK ENVELOPE	ENV OUT sensor time-out	Clear paper misfeed from Envelope Feeder
9-2 FEED ERROR	CHECK MBF	MBF T/A roll 1 sensor time-out	Clear paper misfeed from MBF
9-3 FEED ERROR	CLEAR AREA A	MBF or ENV Reg sensor time-out	Clear paper misfeed from Area A

Alphanumeric Code Class

LCD MESSAGE (LINE 1)	LCD MESSAGE (LINE 2)	CAUSE OF ERROR MESSAGE	REQUIRED ACTION
DRUM EOL NEARBY	N/A (WARNING ONLY)	P/R Drum end of life nearby	Ensure that you have a new P/R Drum to install soon
F/D TRAY FULL	REMOVE PAPER	Face Down Tray Paper Full	Empty output paper from Face Down Finishing Tray
FINISHER OVER LAP	REMOVE PAPER	Finisher Paper Overlap	Empty output paper from Finisher
PAPER OUT-TRAY 1	LOAD LETTER OR LOAD LEGAL OR LOAD A4 OR ETC.	No Paper in Tray 1	Add indicated paper size to Tray 1
PAPER OUT-TRAY 2	LOAD LETTER OR LOAD LEGAL OR LOAD A4 OR ETC.	No Paper in Tray 2	Add indicated paper size to Tray 2
PAPER OUT-TRAY 3	LOAD LETTER OR LOAD LEGAL OR LOAD A4 OR ETC.	No Paper in Tray 3	Add indicated paper size to Tray 3
PAPER OUT-TRAY 4	LOAD LETTER OR LOAD LEGAL OR LOAD A4 OR ETC.	No Paper in Tray 4	Add indicated paper size to Tray 4
PAPER OUT-TRAY 5	LOAD LETTER OR LOAD LEGAL OR LOAD A4 OR ETC.	No Paper in Tray 5	Add indicated paper size to Tray 5
STACKER FULL	REMOVE PAPER	Finisher Full	Empty output paper from Finisher
STACKER TOP FULL	REMOVE PAPER	Finisher Top Tray Full	Empty output paper from Finisher top tray
STAPLE CARTRIDGE	INSTALL CART.	Finisher Staple Cartridge is not installed	Install staple cartridge in Finisher
STAPLES LOW	ADD STAPLES	Finisher Staple Pin	Add staples to Finisher
TONER LOW	N/A (WARNING ONLY)	Toner Low Alert	Ensure that you have a new toner cartridge to install soon
PUNCH WASTE FULL	EMPTY WASTE BOX	The punch waste box is Full	Empty the waste in the punch waste box
NO PUNCH WASTE	INSTALL BOX	The punch waste box is not installed	Install the punch waste box

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- NOTE:** 1: These faults are not necessarily hard faults. They only become hard faults when an attempt is made to use the “faulted” device. For these errors, the printing can continue if one simply avoids the problem. For instance, “tray trouble” faults usually indicate that the tray in question has been removed. These errors are only treated as faults when there is no alternative action to take. Your printer may be configured so that the problem is easily avoided. When the problem cannot be avoided, the described faults will be displayed.
- 2: The Communications Error indicates an error that requires a service call. However, before arranging for a service call, ensure that all associated cabling is correctly installed.
- 3: The Finisher errors are reported when an attempt is made to use the finisher.
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Appendix A

Safety Notes and Regulatory Compliances

In this Chapter . . .

- “About this Appendix” on page A-2
- “Safety Notes” on page A-2
- “Regulatory Compliances” on page A-4

About this Appendix

Describes cautions to take when installing, transporting, or operating the printer. Also includes applicable regulatory compliances of your printer.

Safety Notes



WARNING: Two power specifications are listed below. The specifications that apply to your machine depend on your machine configuration. Connect the power plug only to a properly rated power outlet. Otherwise, it can cause a fire or shock hazard. If in doubt, contact your point of purchase.

Rated voltage 110V
Rated frequency 50/60Hz

Rated voltage 220-240V
Rated frequency 50/60Hz



WARNING: Never use multi-plug adaptors to plug multiple power plugs in the same outlet. Be sure to operate the machine on a sole-use receptacle. Multiple connectors can cause the outlet to overheat and cause a fire. Use of controls, adjustments or performance of procedures other than those specified in this manual may result in hazardous laser radiation exposure.

Power Source, Power Cord and Accessory Cable Precautions

- If you use a cord with an unspecified current rating, the machine or plug may emit smoke or become hot to the touch externally.
- Do not attempt to rework, pull, bend, chafe, or otherwise damage the power cord. Do not place a heavy object on the cord. A damaged cord can cause a fire or shock hazard.
- Never touch a power cord with wet hands. Danger of electric shock exists.
- If the power cord is broken or insulated wires are exposed, contact your point of purchase for a replacement. Using a damaged cord can cause a fire or shock hazard.
- When unplugging the machine, grasp the plug instead of the cord. Forcibly pulling on a cord can damage it and cause a fire or shock hazard.
- Be sure to switch off and unplug the machine before accessing the interior of the machine for cleaning, maintenance, or fault clearance. Access to a live machine's interior can cause a shock hazard.
- When the machine is not used over an extended period of time, switch it off and unplug it. If an unused machine is left connected to a power source for a long period, degraded insulation can cause a shock, leak current, or fire hazard.
- Once a month, unplug the machine and check the power cord for the following.
 - The power cord is plugged firmly into a receptacle.
 - The plug is not excessively heated, rusted, or bent.
 - The plug and receptacle are free of dust.
 - The cord is not cracked or frayed.

Switch off the machine before connecting the interface cable or optional accessory. Connecting the cable or accessory with a live machine can cause a shock hazard.



CAUTION: Ensure that the plug connection is free of dust. In a damp environment, a contaminated connector can draw a non-negligible amount of current that can generate heat and eventually cause a fire over an extended period of time.



CAUTION: Do not unplug or plug the machine in while it is on. Unplugging a live connector can deform the plug and cause a fire.

Location and Environment Precautions

- Do not place the machine in a hot, humid, dusty, or poorly ventilated environment. Prolonged exposure to these adverse conditions can cause a fire or shock hazard.
- When moving the machine, be sure to unplug the power cord from the outlet. If the machine is moved with the power cord connected, it can cause damage to the cord which could result in a fire or shock hazard.
- When moving the machine, do not tilt it more than 10 degrees. If tilted excessively, the machine may fall over and cause injuries.
- The machine is capable of operating normally within the following recommended environmental limits.
- Temperature range 10-35° C Humidity range 15-85% (no condensation)
- Humidity should be 70% or below at 32° C and temperature should be 28° C or below at 85% humidity.
- Do not expose the machine to direct sunlight. Exposure to direct sunlight can adversely affect the machine's performance.
- For information on how to secure the printer against movement or tipping in case of an earthquake, please contact your point of purchase.
- Place the machine on a level and sturdy surface that can withstand the machine weight. If tilted, the machine may fall over and cause injuries.
- The machine weighs about 48kg. When carrying the equipment, play it safe. Get help.
- When lifting the machine, face the front panel and firmly grip the recessed areas provided on both sides of the machine. Never try to lift the machine by gripping any other areas. Lifting the machine by gripping any other areas can cause the fall of the machine, resulting in injuries.
- When lifting the machine, get a firm footing and bend your knees to avoid possible injuries to your back.

NOTE: Sudden temperature fluctuations can affect copy quality. Rapid heating of a cold room can cause condensation inside the machine, directly interfering with image transfer.

Fire, Smoke and Shock Precautions

- Do not place any liquid container such as a vase or coffee cup on the machine. Spilled water can cause a fire or shock hazard.
- Do not place any metal part such as staples or clips on the machine. If metal and flammable parts migrate into the machine, they can short internal components, and cause a fire or shock hazard.

- If debris (metal or liquid) migrates into the machine, switch off and unplug the machine. Contact your point of purchase. Operating a debris-contaminated machine can cause a fire or shock hazard.
- Never open or remove machine covers that are secured with screws unless specifically instructed in the "User's Manual."
- A high voltage component can cause a shock hazard.
- Do not try to alter the machine configuration, or modify any parts. An unauthorized modification can cause smoke or fire.
- Never throw a drum cartridge into an open flame. Toner remaining in the cartridge can cause an explosion and you can get burnt.
- Do not place a magnet near the safety switch of the machine. A magnet can activate the machine accidentally, resulting in injuries.
- Do not place any heavy object on the machine. An off-balance machine can fall over or the heavy object can fall, causing injuries.
- Do not use a highly flammable spray near the machine. It can cause a fire.
- Stop operation immediately if your machine produces smoke, excessive heat, unusual noise, or smell, or if water is spilled into the machine. These conditions can result in a fire. Immediately switch off and unplug the machine, and contact your point of purchase.
- To prevent a fire or shock hazard, follow the instruction below based on your machine configuration. If in doubt, contact your point of purchase.



CAUTION: Do not place the machine near heaters or volatile, flammable, or combustible materials such as curtains that may catch fire.

Paper Jam Precautions

- The fuser becomes very hot in operation. If a paper jam has occurred, turn the power off and wait at least 40 minutes before removing the drum cartridge and touching the fuser section.
- When clearing a jammed paper that is difficult or impossible to see, do not try to remove it by yourself. Doing so can cause injuries. Contact your point of purchase.
- When removing jammed paper, make sure that no pieces of torn paper are left in the machine. A piece of paper remaining in the machine can cause a fire.
- If a sheet of paper is not able to be removed or wrapped around the heat roller, do not try to remove it by yourself. Doing so can cause injuries. Switch off the machine immediately, and contact your point of purchase.

Regulatory Compliances

Class B Equipment

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult with the dealer or an experienced radio/television technician for help.
- Always use the power cord provided with your machine. When an extension power cord is required, always use a properly rated cord.
- In Japan: 125V/15A
- In other countries: Contact your point of purchase.

If your machine is a 220-240V model, there is no need to attach a separate earth line since the earth connection is incorporated in the power line. Plug it into a properly rated outlet.

Class 1 Laser Device and CDRH Compliance

This equipment is certified as a Class 1 laser product. This means that the machine does not emit hazardous laser radiation.

Do not try anything which is not instructed in this User's guide. An unauthorized operation can cause injuries or damage to the machine.

This equipment is in the 2nd class category (information equipment to be used in a residential area or an adjacent area thereto) and conforms to the standards set by the Voluntary Control Council For Interference by Information Technology Equipment aimed at preventing radio interference in such residential area.* When used near a radio or TV receiver, it may become the cause of radio interference. Read the instructions for correct handling.

* This regulation applies only to Japan.

This printer is certified as a Class 1 laser product under the U.S. Department of Health and Human Services (DHHS) Radiation Performance Standard according to the Radiation Control for Health and Safety Act of 1968. This means that the printer does not emit hazardous laser radiation.

Since radiation emitted inside the printer is completely confined within the protective housings and external covers, the laser beam cannot escape from the machine during any phase of user operation.

The Center for Devices and Radiological Health (CDRH) of the U.S. Food and Drug Administration implemented regulations for laser products on August 1976. These regulations apply to laser products marketed in the United States. The label on the printer indicates compliance with the CDRH regulations and must be attached to laser products marketed in the United States.

Radio and Television Interference

When installed at a certain location, the machine may cause interference with radio and television reception. If you notice flickering or distorted images or noises on your audio-visual units, your machine may be causing radio interference.

Switch it off, and if the interference disappears, the machine is the cause of radio interference. Perform the following procedure until the interference is corrected.

- Move the machine and the TV and/or radio away from each other.
- Reposition or reorientate the machine and TV and/or radio.
- Unplug the machine, TV and/or radio, and replug them into outlets that operate on different circuits.

- Reorientate the TV and/or radio antennas and cables until the interference stops. For an outdoor antenna, ask your local electrician for support.
- Use coaxial cable antennas.

