

PHASER® 2135
COLOR PRINTER

ADVANCED FEATURES
AND TROUBLESHOOTING GUIDE





**Phaser® 2135 Color Printer
Advanced Features and Troubleshooting Manual**

March 2001

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A description of the customary on-site service area may be obtained from the local Xerox Customer Support Center or authorized Xerox distributor. On-site service is at Xerox or its authorized service representative's sole discretion and is considered an option of last resort.

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- d) to repair a product or CRC that has been modified or integrated with other products when the effect of such modification or integration increases the time or difficulty of servicing the product or CRC;
- e) to perform user maintenance or cleaning or to repair damage, malfunction, or degradation of performance resulting from failure to perform user maintenance and cleaning as prescribed in published product materials;
- f) to repair damage, malfunction, or degradation of performance resulting from use of the product in an environment not meeting the operating specifications set forth in the user manual;
- g) to repair this product after the limit of its duty cycle has been reached; all service thereafter shall be billed on a time and material basis;
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User safety summary

Your printer and the recommended consumable supplies have been designed and tested to meet strict safety requirements. Attention to the following notes will ensure the continued safe operation of your printer.

Electrical Safety

- Use the power cord supplied with your printer.
- Do not use a ground adapter plug to connect the printer to a power source receptacle that lacks a ground connection terminal.
- Plug the power cord directly into a properly grounded electrical outlet. Do not use an extension cord. If you do not know whether an outlet is grounded, ask an electrician to check the outlet.

Warning

Avoid the potential of severe electrical shock by ensuring the printer is properly grounded.

- Do not place the printer where people may step on the power cord.
- Do not place objects on the power cord.
- Do not obstruct the ventilation openings. These openings are provided to prevent overheating of the printer.

Warning

Do not push objects into slots and openings on the printer. Making a contact with a voltage point or shorting out a part could result in fire or electrical shock.

- If you notice unusual noises or odors, switch off the printer power immediately. Disconnect the power cord from the electrical outlet. Call an authorized service representative to correct the problem.
- The power cord is attached to the printer as a plug-in device at the back of the printer. In the event it is necessary to remove all electrical power from the printer, disconnect the power cord from the power receptacle.
- If any of the following conditions occur, switch off the printer power immediately, disconnect the power cord, and call an authorized service representative.
 - The power cord is damaged or frayed.
 - Liquid is spilled into the printer.
 - The printer is exposed to water.
 - Any part of the printer is damaged.

Maintenance Safety

- Do not attempt any maintenance procedure that is not specifically described in the documentation supplied with your printer.
- Do not use aerosol cleaners. The use of supplies that are not approved may cause poor performance and could create a dangerous condition.
- Do not remove the covers or guards that are fastened with screws unless you are installing optional equipment and are specifically instructed to do so. Power should be OFF when performing these installations. Except for user installable options, there are no parts that you can maintain or service behind these covers.

Operational Safety

Your printer and supplies were designed and tested to meet strict safety requirements. These include safety agency examination, approval, and compliance with established environmental standards.

Your attention to the following safety guidelines will help to ensure the continued safe operation of your printer.

- Use the material and supplies specifically designed for your printer. The use of unsuitable materials may result in poor performance and possibly a hazardous situation.
- Follow all warnings and instructions marked on, or supplied with, the printer, options and supplies.

- Place the printer in a dust free area where the temperature range is 50 degrees F to 90 degrees F (10 degrees C to 32 degrees C) and the relative humidity is 10 percent to 85 percent.
- Place the printer in an area where there is adequate space for ventilation, operation and servicing. The recommended minimal spacing is 100 cm (39 in.) in front of the printer, 70 cm (28 in.) above the printer, 20 cm (8 in.) behind the printer, and 60 cm (24 in.) on each side of the printer. Do not block or cover the slots and openings on the printer. Without adequate ventilation, the printer may overheat.
- For optimum performance, use the printer at elevations below 2,000 meters (6,560 ft.). Performance may diminish at elevations between 2,000 meters (6,560 ft.) and 3,000 meters (9,840 ft.). Use at elevations above 3,000 meters (9,840 ft.) exceeds operability limits.
- Do not place the printer near a heat source.
- Do not place the printer in direct sunlight.
- Do not place the printer in line with the cold air flow from an air conditioning system.
- Place the printer on a level, solid surface with adequate strength for the weight of the machine. The base printer weight without any packaging materials is 68 kg (149 pounds).
- The printer is heavy, and must be lifted by three people. The illustration below shows the proper technique for lifting the printer.



- Follow the recommended procedure when moving the printer from one location to another. Refer to the *Phaser 2135 Setup Poster*.
- Do not place any liquids on the printer.

Warning

Be careful when working in areas inside the printer identified with a warning symbol. These areas may be very hot and could cause personal injury.

- Wait 10-15 seconds between switching the printer off and on.
- Keep hands, hair, neckties, etc., away from the exit feed rollers.
- Do not remove the media source tray that you have selected in the driver or front panel while printing.
- Do not remove any trays above the currently selected media source tray

- Do not open the covers while printing.



- Do not switch off the printer power while printing.



Symbols as marked on product:

DANGER high voltage:



Protective ground (earth) terminal:



Hot surface on or in the printer. Use caution to avoid personal injury



Use caution. Refer to the manual(s) for information:



0730-10

Warning

If the product loses the ground connection, usage of knobs and controls (and other conductive parts) can cause an electrical shock. Electrical product may be hazardous if misused.

Warning

For your protection, do not defeat any interlocks.

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Introduction

In this section, you will become familiar with the features of your printer and learn where to locate specific printer parts.

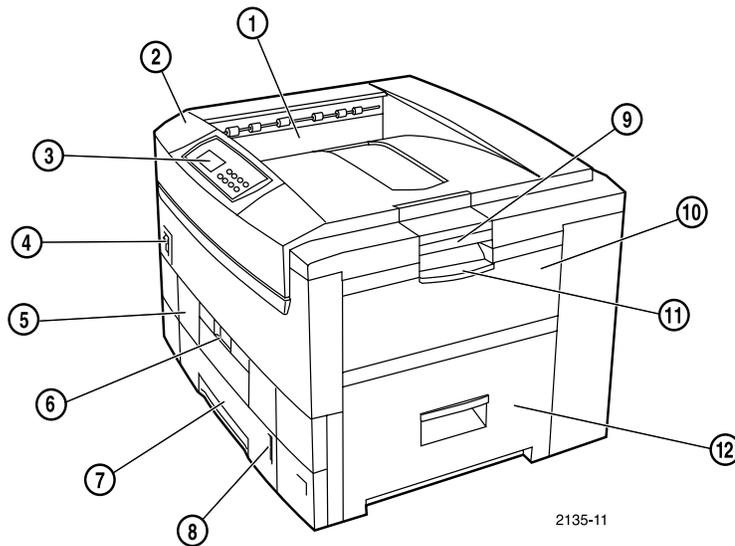
Before you use your printer, be sure to perform all the steps outlined in the *Phaser 2135* setup poster and connect the necessary cables.

Your printer may also have one or more of the optional features installed. First verify your exact equipment options before proceeding further. All optional features described in this manual are available for your printer and are user installable. For more information, refer to the *User Guide* provided with your printer.

Printer Components

Base Configuration

Printer Components, Front View

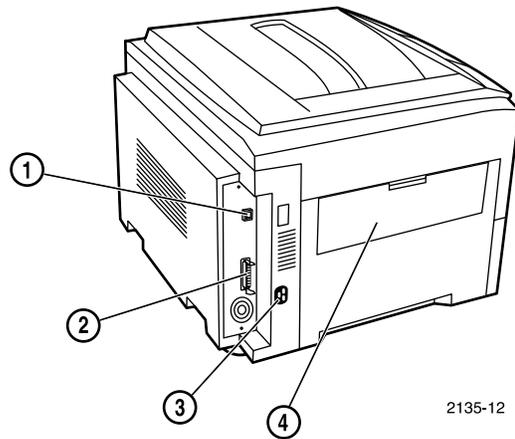


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Front View

1. Top output tray
(media delivered face down)
2. Top cover
3. Front panel
4. On/Off switch
5. Duplex unit (optional)
(shown closed)
6. Duplex unit release
7. Universal tray
8. Media level gauge
9. Top cover release
10. Multi-Sheet Bypass Feeder (MBF)
11. Multi-Sheet Bypass Feeder (MBF) release
12. Right Door A

Printer Components, Rear View

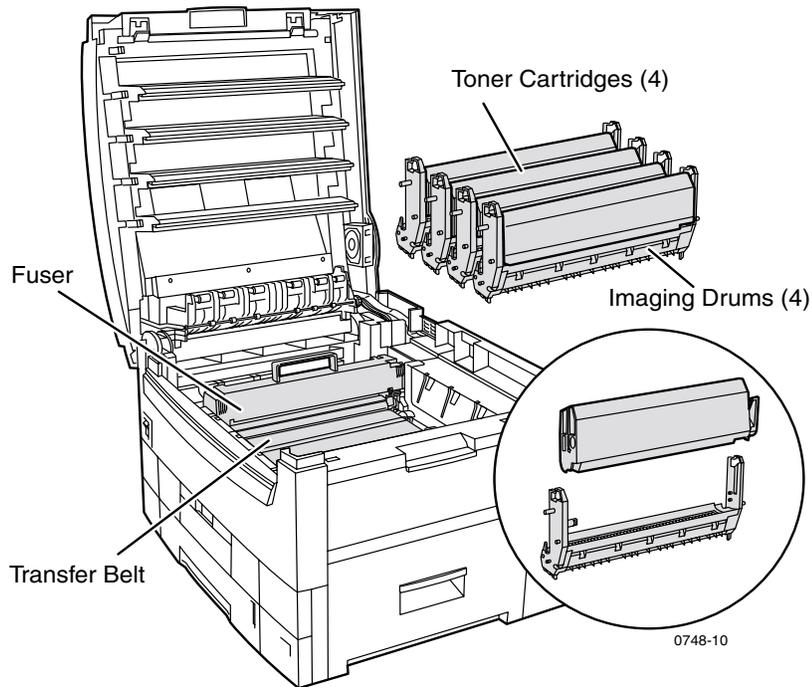


Left-Side View

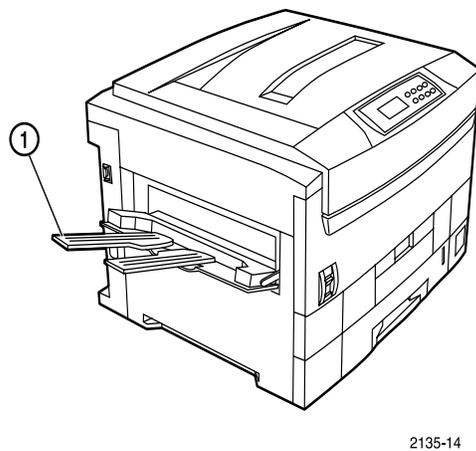
1. Ethernet UTP connector
2. Parallel connector
3. Power cord receptacle
4. Side output tray
(shown closed)

Internal Components

Internal Components, Top View



Internal Components, Side View

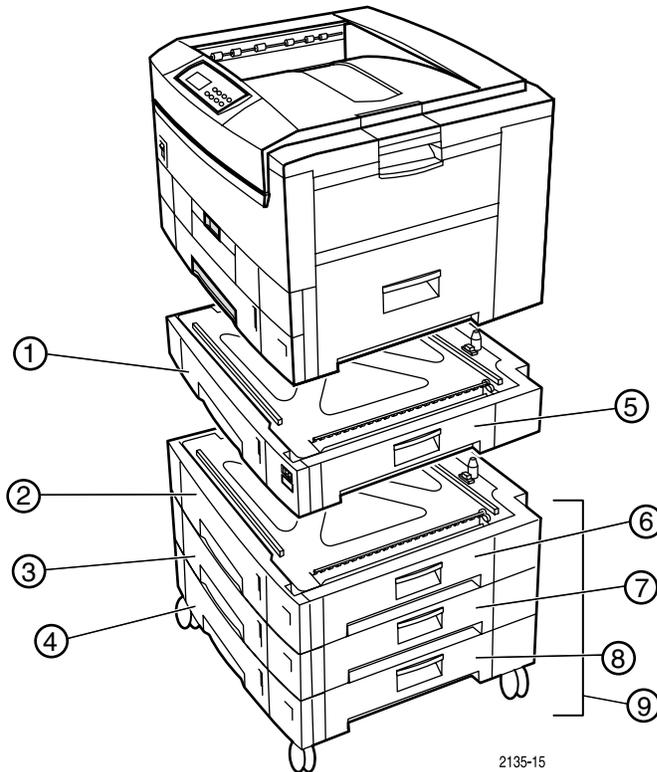


Side View

1. Side output tray (shown open)

Printer Options

Optional Paper Trays

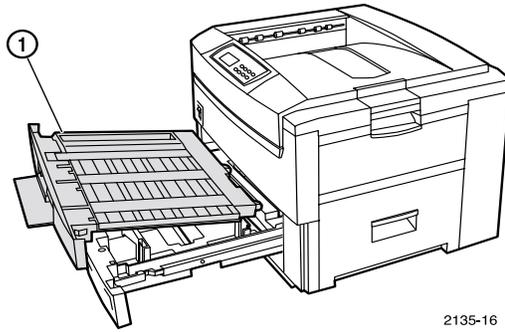


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Optional Paper Tray

1. Tray 2 (550-sheet feeder)
2. Tray 3 (550-sheet feeder)
3. Tray 4 (550-sheet feeder)
4. Tray 5 (550-sheet feeder)
5. Right Door B
6. Right Door C
7. Right Door D
8. Right Door E
9. Lower Tray Deck Option

Duplex Option



Duplex Option

1. Duplex option
(shown partially pulled out)

Printer Features

Your printer has many special features that enable you to achieve the results you need for your specific print job. Features vary according to the options installed on your printer. This section will help you become familiar with your printer's features and capabilities.

Media Handling

Your printer has several media input sources and output destinations as described below.

Input Sources

- The standard **Multi-Sheet Bypass Feeder (MBF)** holds up to 100 sheets of standard 75 g/m² (20 lb. bond) paper (up to 50 transparency sheets or a smaller number of sheets of special media).
- **Tray 1** is the standard input tray that holds up to 550 sheets of 75 g/m² (20 lb. bond) paper or 250 standard or 200 premium transparencies.
- **Trays 2-5** are the optional input trays installed below Tray 1. They hold up to 550 sheets of 75 g/m² (20 lb. bond) paper. The capacity of these trays varies based on the thickness of the paper. Transparencies and glossy paper are not supported from these trays.

Trays 1, 2, 3, 4 and 5 all have paper-size sensing, low-paper sensing, and tray-empty sensing. Paper levels are indicated on a gauge visible at the front of the tray. When the level reaches approximately 40 sheets, the front panel displays the low paper warning.

The Multi-Sheet Bypass Feeder (MBF) has tray-empty sensing but not paper-size sensing.

Refer to *Selecting Print Media* on page 12 for information on supported media.

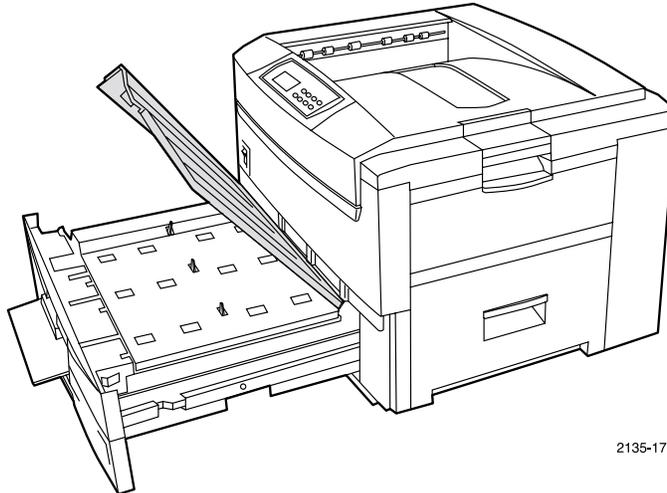
Output Destinations

- The top output tray holds up to 500 sheets of 75 g/m² (20 lb. bond) and receives prints face-down. It has tray-full detection.
- The side output tray holds up to 100 sheets of 75 g/m² (20 lb. bond) paper and receives prints face up (at the left hand side of the printer).

2-Sided Printing*

A duplex (2-sided) option is available for your printer that enables 2-sided printing on specific media types and sizes. For information on supported media, refer to *Supported Media Types* on page 14.

Duplex (2-Sided) Option



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Connectivity

Your printer contains the following interfaces for connecting to a host computer or network:

- IEEE 1284 bi-directional parallel port (built-in)
- Ethernet 10BaseT and 100BaseTX (built-in)

The following network operating systems are supported:

- NetWare 3.1x, 4.1x, 5.0, NDPS
- Windows 2000, NT 4.0
- Windows 95/Windows 98/Windows Millennium peer-to-peer
- OS/2 Warp/LAN Server
- Mac OS 7.61+, 8.x, 9.x, OSX
- UNIX (SCO, Red Hat Linux, Solaris, HP-UX, IBM/AIX, SGI, DEC)

For more detailed information about supported network environments and protocols, refer to the *Phaser 2135 Quick Network Install Guide* on your Printer Management Software CD-ROM.

*These features are also available in the Printer Driver. For additional information about these features, see the *Printer Driver Features* section on page 19. Settings in the driver override the settings in the front panel.

PDLs and Fonts

Your printer includes the following Page Description Languages (PDLs):

- Adobe PostScript 3 with 136 resident Adobe Type 1 fonts
- An emulation of HP PCL5C with 46 resident fonts
- PDF (requires optional hard disk drive)
- TIFF (requires optional hard disk drive)

The printer automatically detects a print job's PDL and switches to the appropriate PDL interpreter for processing.

Resolution

Your printer can print at the following imaging resolutions:

- 600 x 600 dpi (dots per inch)
- 600 x 1200 dpi

Print Speed

The print speed depends on the model and configuration of your printer and the complexity of your print jobs. Maximum rated print speeds:

- 26 ppm (pages per minute) for black-only printing (based on A4-size long-edge feed)
- 21 ppm for color printing (based on A4-size long-edge feed)

The following host-based color management systems can be used with the printer:

- PANTONE™ Matching System
- Apple ColorSync 2.5
- Image Color Matching (ICM) for Windows 95/Windows 98 and Windows 2000/Windows Millennium
- ICC

Convenience Features

Automatic Color*

The Automatic Color feature provides the optimum settings for documents with both graphics and text. This produces the best output for most documents.

Fax Friendly*

The Fax Friendly feature changes your color document to patterns of black and white so that it can be used as a fax original or for black and white copying.

Automatic Image Correction*

Optimizes printing of photographs or bitmapped images. It enhances RGB images if the exposure level, color balance, sharpness, brightness, or contrast settings in the original image have not been optimized.

Smooth Low-Resolution Images*

Enhances low-resolution graphics. Ideal for images from the World Wide Web.

Automatic Transparency Detection

The printer detects transparencies to avoid printing on the wrong media when the paper tray is incorrectly loaded. This allows the printer setup to be corrected to ensure the best possible print quality. Transparencies can only be printed from Tray 1 or the Multi-Sheet Bypass Feeder (MBF).

Front Cover*

Prints the first page of your document from a different paper tray than the remaining pages. This permits you to specify the media type for the front cover page of a document.

Separator Pages*

Insert a blank separator sheet after each page, print job, or copy of a multi-copy collated print job. Separation pages can be taken from a different paper tray from the printed pages.

Job Offset

Separates each print job from the previous print job in the output tray. It also separates each copy of a multiple-copy collated job.

*These features are also available in the Printer Driver. For additional information about these features, see the *Printer Driver Features* section on *page 19*. Settings in the driver override the settings in the front panel.

Secure Print*

Prints confidential and sensitive documents. This feature requires installation of the optional hard disk drive. It automatically holds your password-protected document within the hard drive. When you're ready to print or delete your job, enter the corresponding four-digit numeric password on the front panel to release the job. Once the file is printed, it is automatically deleted from the hard drive.

Proof Print*

Print and proof a single copy of a document before printing the remaining document sets/copies. Requires installation of the optional hard drive. The remaining sets are held in the printer's hard disk drive until you release the job at the front panel by entering the corresponding four-digit numeric password.

Event Notification by Email

Sends an email message to your workstation when the printer requires attention (low/no paper, low/no toner, etc.) To use this feature, establish a mail account for the printer and configure the Xerox MaiLinX feature via CentreWare Internet Services. For more information, see *Networking* on page 108 and the *CentreWare Internet Services User Guide* on the Printer Management Software CD ROM.

Remote Printing by Email

Enables remote submission of print jobs to a printer by email. Business travellers can use this feature. To use this feature, establish a mail account for the printer and configure the Xerox MaiLinX Feature via CentreWare Internet Services. Finally, install and configure the Xerox Mail Port Monitor on the client workstation/PC. For more information, see *Networking* on page 108 and the *CentreWare Internet Services User Guide* located on the Printer Management Software CD-ROM.

*These features are also available in the Printer Driver. For additional information about these features, see the *Printer Driver Features* section on page 19. Settings in the driver override the settings in the front panel.

Selecting Print Media

This chapter will help you understand what kinds of paper and other print media to use with the printer.

- The printer supports a variety of media types and sizes. *Supported Media Types* on page 14 lists the sizes of paper, envelopes, and other print media for use with the printer's paper trays. The printer supports paper weights as follows:
 - 60-163 g/m² (16-43 lb. bond) via the standard and optional paper trays
 - 60-203 g/m² (16-54 lb. bond) via the Multi-Sheet Bypass Feeder
 - 75-120 g/m² (20-32 lb. bond) for automatic 2-sided printing
- Media especially sensitive to curl (transparencies, labels, etc.) should be output to the side output tray at the left-side of the printer instead of to the top output tray.
- To use the printer's automatic 2-sided printing capability:
 - The optional duplex module must be installed.
 - Only media with a weight from 75 to 120 g/m² (20-32 lb. bond) should be used. All other media weights must be manually duplexed.
 - The paper tray must be one of the 550 sheet trays (Trays 1-5). If paper is fed from the Multi-Sheet Bypass Feeder, it will not be printed 2-sided automatically, but may be printed 2-sided manually.
 - Automatic 2-sided printing is only allowed when the Media Type is set to "Plain Paper" (75-90 g/m², 20-24 lb. bond) or "Heavy Paper" (90-120 g/m² 24-32 lb. bond). Do not attempt automatic 2-sided printing on any other type of media.
- Use only Xerox Phaser 2135 Transparencies.

Caution

Other transparencies may cause damage to the fuser. Any damage caused due to the use of unsupported media may not be covered by your printer's warranty.

Note

Using media not recommended for laser printers may result in paper jams, print quality problems or printer damage.

Do not use the following media in the printer:

- Wrinkled, torn, or bent paper
- Moist or wet paper
- Curled paper
- Paper with an electrostatic charge
- Glued paper, or paper with gummed surfaces
- Paper with special coating
- Paper unable to withstand a temperature of 165° C (302° F)

- Thermal paper
- Carbon paper
- Carbonless paper
- Paper with paper fasteners, ribbons, tape, staples, etc. attached
- Heavily textured paper
- Label sheets that have previously been run through the printer and from which printed labels have been removed
- Paper with high rag content
- Transparencies other than those specifically recommended for the Phaser 2135 printer

Supported Media Types

Media Type	Input Source:			Output Source:	
	Tray 1	Tray 2, 3, 4, or 5	Multi-Sheet Bypass Feeder	Top Output Tray	Side Output Tray
Plain, Heavy and Light Paper					
Letter	•	•	•	•	•
Legal	•	•	•	•	•
11 x 17	•	•	•	•	•
8.5 x 13 in.	•	•	•	•	•
8 x 13 in.			•	•	•
215 x 315 mm	•	•	•	•	•
A4	•	•	•	•	•
A3	•	•	•	•	•
SRA3			•	•	•
A3 Nobi	•	•	•	•	•
JIS B5	•	•	•	•	•
JIS B4	•	•	•	•	•
A5	•	•	•	•	•
Executive	•	•	•	•	•
Statement			•	•	•
8 x 10 in.			•	•	•
12 x 18 in.			•	•	•
A6	•		•		
Phaser 2135 Transparencies					
	•		•		•
Glossy Paper					
	•		•	•	•
Thick Card Stock					
			•		•
Thin Card Stock					
	•	•	•	•	•
Labels					
			•		•
Envelopes					
			•		•
Business Cards					
			•		•

Automatic Two-Sided Printing

Automatic 2-sided printing is available from all trays but not from the Multi-Sheet Bypass Feeder (MBF). The duplex option must be installed before you can use automatic 2-sided printing. Automatic 2-sided printing is available for all paper sizes that are supported by trays 1-5, except A6, and only when the media type is set to either "Plain Paper" or "Heavy Paper".

The following media types cannot be automatically duplexed:

- Phaser 2135 Transparencies
- Glossy Paper
- Thick Card Stock
- Thin Card Stock
- Labels

- Envelopes
- Business Cards
- Light Paper

Manual Two-Sided Printing

You can manually duplex from the Multi-Sheet Bypass Feeder (MBF) or Tray 1. You can manually duplex the following media types.

- Plain Paper
- Heavy Paper
- Glossy Paper
- Thick Card Stock
- Thin Card Stock

See the User Guide for more information about manually duplexing.

Storing Print Media

Print quality is optimized when paper and other print media are properly stored. Proper storage ensures optimum print quality and reduces the frequency of paper jams.

- Store the paper in its original packaging on a flat surface, in a relatively low humidity environment.
- Avoid storing paper in a way that will cause wrinkling, bending, curling, etc.
- Do not unwrap paper until you are ready to use it, and rewrap any paper you are not using.
- Do not expose paper to direct sunlight or high humidity.

Printing Options

The following table displays a variety of options for submitting a file for printing, depending upon your environment and preferences.

Method	Options	Description
Print directly from application.	Through a direct connection	The port is set to LPT1: (or equivalent).
	Through a network	The port is set to a network queue.
	Through the mail port monitor	The port is set to the Xerox Mail Port Monitor and the printer has an email address.
Print via a print file submission	CentreWare DP	Send the print file to the printer using TCP/IP networks only).
	CentreWare for Solaris	Send the print file to the printer using CentreWare for Solaris.
	CentreWare TTY for UNIX	Send the print file to the printer using CentreWare TTY for supported UNIX platforms.
	CentreWare Internet Services	Send the print file to the printer using CentreWare Internet Services (embedded web server).
	Attachment to email	Send the print file (PostScript, PCL, PDF, TIFF) to the printer as an attachment to a mail note (This option requires that the printer has an email address).

Printer Drivers

A printer driver is software that you load on your workstation or server. To achieve the best results from your color printer, it is essential that you use the proper printer driver for your operating system and printer configuration.

Printer drivers provide access to features unique to your printer. Although there are many print options and features that are a part of the software applications, your printer also contains many distinctive features of its own. For example, your custom printer drivers enable you to use the Automatic Color feature that is available in your printer.

You may use either the Adobe PostScript printer driver (recommended) or the PCL 5C printer driver. The PostScript printer driver allows access to more of the exclusive and powerful Xerox printing features.

The table below lists the supported drivers by PDL (Page Description Language) along with supported operating systems.

Note

Your Phaser 2135 was shipped with the latest drivers available at the time of manufacture. You can check for newer drivers from www.xerox.com/officeprinting/drivers.

PDL	Platform/Environment	Operating System
Adobe PostScript 3	Windows	Windows 95/98/Millennium Windows NT 4.0 Service Pack 4+ Windows 2000
	IBM OS/2 ^a	OS/2 WARP
	Macintosh	System 7.6.1, 8.x, 9.x
	UNIX	CenterWare Services for UNIX Systems UNIX TTY Services
PCL5C ^a	Windows	Windows 95/98/Millennium Windows NT 4.0 Service Pack 4+ Windows 2000

a. Must be downloaded from www.xerox.com/officeprinting/drivers

Installing the Printer Drivers

Instructions on how to load the printer drivers are on the Phaser 2135 Product CD-ROM for this. In addition, your System Administrator can download drivers directly to each workstation on the network.

Configuring the Printer Drivers

Be sure to properly configure the printer driver for your printer and its installed options, such as additional media trays, the hard drive, duplex module, etc. If the printer driver is not properly configured, optional features such as 2-Sided Printing, Proof Printing, Secure Printing, Tray 2, 3, 4 and 5 sources, etc. may not be accessible.

To check the printer's configuration, print the Configuration Page:

1. On the front panel, press the **Menu Up** or **Menu Down** key (labeled 1 or 5) to scroll through the available menus until you locate the **Printer Setup Menu**.

Menus Printer Setup Menu

2. Press the **Item Up** or **Item Down** key (labeled 2 or 6) to scroll until you see **Print Configuration Page**.

Printer Setup Menu Print Configuration Page
--

3. Press the **Enter** key (labeled 4) to print that report.

To change the printer's configuration in the Windows 9x printer driver:

Note

The Windows 9x printer driver is automatically configured.

1. At your computer, click **Start**, select **Settings**, and click **Printers**.
2. Open the printer driver properties by right-clicking on the printer icon and clicking **Properties**.
3. On the **Setup** tab, click the **Expert Options** button.
4. In the **Installable Options** area of the **Expert Options** dialog box, highlight an option that you want to change and select the configuration in the drop-down list.
5. Click **OK** to close the **Expert Options** dialog box.
6. Click **OK** to close the printer driver properties.

To specify the printer's configuration in other printer drivers:

1. At your computer, open the printer driver properties.
2. Click the **Printer Configuration** tab.
3. Enable (check) the items in the driver dialog that are listed on the Configuration Page.
4. Click **OK** to close the printer driver properties.

Printer Driver Features

The following table shows the features available in each type of printer driver:

Features of the Drivers

Feature	Windows 9X PostScript	Macintosh PostScript	Windows 9X/ Millennium PCL/5C	Windows Millennium PS	Windows NT 4.0/2000 PCL/5C	Windows NT 4.0/2000 PS
2-sided printing (Duplex)	•	•	•	•	• ^a	•
Automatic Image Correction	•			•		
Black and white printing (Grayscale or Color Appearance)	•	•	•	•	•	•
Black overprint	•	•		•		•
Booklet printing	•		•		• ^b	• ^b
Collation	•	•	•	•	•	•
Color mode	•	•	•	•	•	•
Cover page (first page different)		•	•	•	•	•
Font substitution table	•				• ^a	• ^a
Image Quality (Print Mode)	•	•		•	• ^a	•
Media Type	•	•	•		•	• ^a
Mirror image	•	•		•		•
Multiple pages per side (n-up)	•	•			• ^b	•
Negative image	•	•		•		• ^a
Orientation	•	•	•	•	• ^a	• ^a
Paper size	•	•	•	•	•	•
Process Grayscale graphics	•	•		•		•
Proof print	•		•	•	•	•
Scaling	•	•		•		•
Secure print	•		•	•	•	•
Separation pages (Transparency separators)	•		•	•	•	•
Smooth Low-Resolution Images			•	•		
TrueType options	•		•		• ^a	•
Watermarks	•		•	•	• ^b	•

a. Windows NT 4.0 only

b. Windows 2000 only

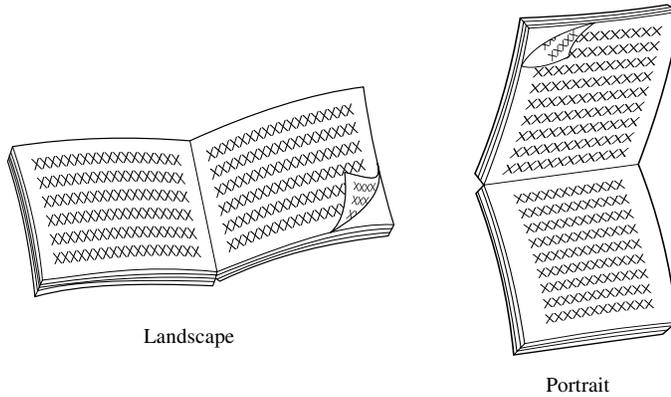
The exact words used in the printer driver and the implementation of the features vary slightly based on your operating system. For detailed information on the features of your printer driver, refer to the online help in the driver software.

2-Sided Printing (Duplex Printing)

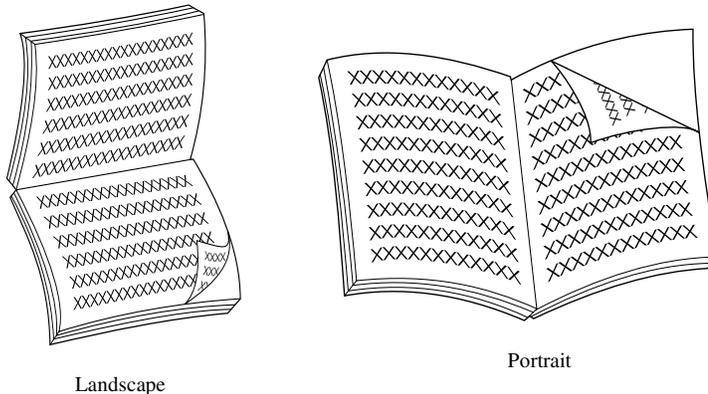
Prints images on both sides of the physical sheet of paper. To use this feature, the printer must have the optional Duplex Module. Automatic 2-sided printing can only be done when paper is input from the trays, not from the Multi-Sheet Bypass Feeder (you can manually duplex from the Multi-Sheet Bypass Feeder).

When you pick 2-sided printing, you also pick the binding edge. The end result depends upon the orientation of the print job.

- **Bind on side edge (or Flip on short edge)**



- **Bind on top edge (or Flip on long edge)**



Black and White printing

Black and white printing options include:

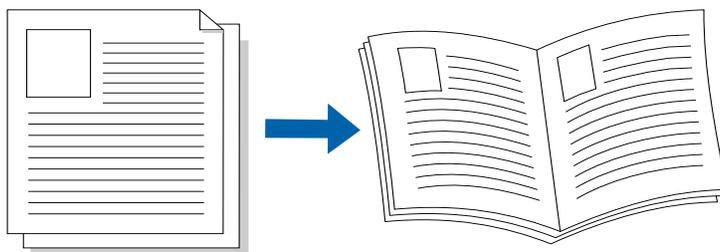
- **Grayscale**
Transforms all color data to equivalent gray levels, with an attempt to preserve color differences as gray density differences. Use this mode for producing the best possible black and white version of a color document.
- **Fax Friendly**
Transforms colors to black and white patterns in such a way that the information is preserved and the resulting patterns remain visible when copied or transmitted via fax. Use this mode for printing a version of a color document that is to be photocopied or faxed in black and white.

Black Overprint

Reduces thin white outlines that may appear around black text edges on color backgrounds.

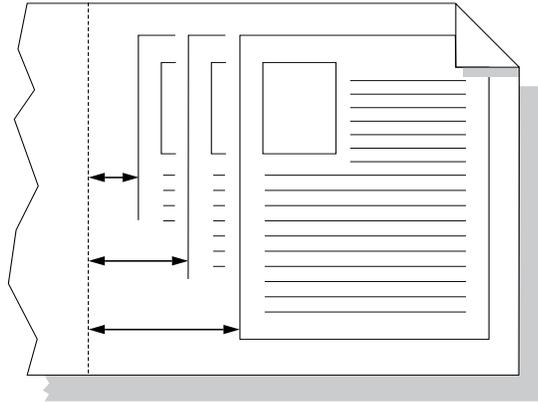
Booklet Creation

Prints your document in the form of a small book. To use this feature, the printer must have the optional Duplex Module.

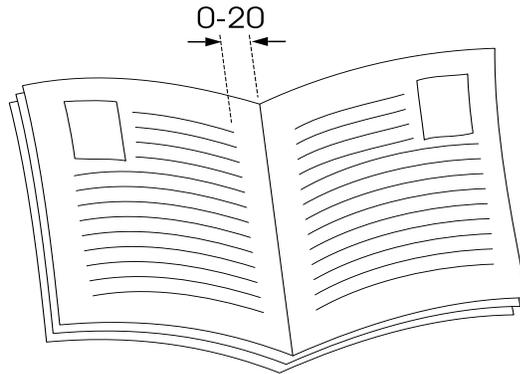


- It is available for any paper size that is supported for automatic 2-sided (duplex) printing (see *Automatic Two-Sided Printing* on page 14).
- Your booklet can have any number of page images, and the driver prints it on one-fourth that number of sheets of paper.
- If the number of page images is an exact multiple of four, there will be no blank pages in the final book. If the number of pages in the book is not in multiples of four, the last page, last two pages, or last three pages may be blank.
- The driver reduces each page image by fifty percent, and prints two images on each side of a sheet of paper. You have to fold the pages and staple them after they print.
- The 2-Sided option must be selected to use booklet printing.

- On a folded sheet of paper with two page images, the horizontal distance from the fold to the page image is called the gutter. You can set the gutter to zero, 50, 100, or 150 points.



- When you fold several pages into a booklet, the thickness of the paper forces the page image of the inner pages to shift slightly outward. The *Creep* control allows you to choose a number of tenths of points by which to shift the page images inward to compensate for the thickness of the paper. You can choose any value from zero to 20.

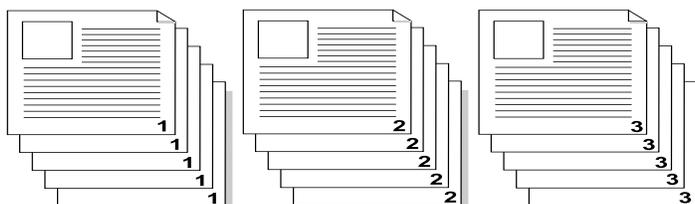


Collation

Allows job collation (for multiple-copy jobs only). The options are:

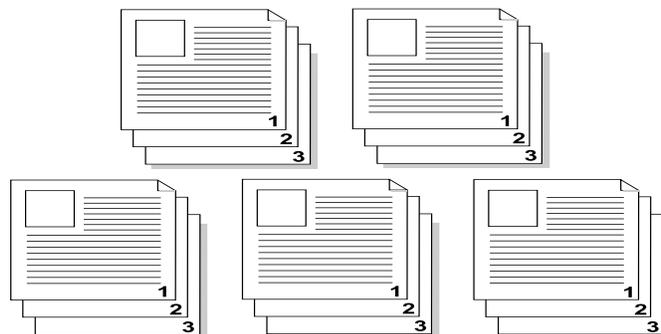
- **Uncollated** (default)

For example, five uncollated copies of a three-page job results in five copies of page 1, then five copies of page 2, and finally five copies of page 3; that is: 1, 1, 1, 1, 1, 2, 2, 2, 2, 2, 3, 3, 3, 3, 3.



- **Collated**

Use this option when you want to print two or more separate sets of a job that contains two or more pages. For example, five collated copies of a three-page job results in one set of all three pages in order, then a second set of all three pages in order, then a third set of all three pages in order, and so on; that is: 1, 2, 3, 1, 2, 3, 1, 2, 3, 1, 2, 3, 1, 2, 3.



Certain print jobs are always collated, such as Proof Print jobs (see *page 21*) or jobs with Separator sheets (see *page 27*).

Color Modes

The modes are:

- **Automatic**
Use this mode for most color printing. It provides the best results for documents with a mixture of graphics, text and pictures. This is the default mode.
- **None**
Use this mode for printing from applications that do all their own color management and transformation. It provides no color correction.
- **ICC Saturation**
Use this mode for documents where the primary content is business graphics. This mode follows ICC guidelines for saturation color matching.
- **ICC Perceptual**
Use this mode for documents in which the primary content is photo-realistic images. This mode follows ICC guidelines for perceptual color matching.
- **ICC Colorimetric**
Use this mode for specialized applications that can make use of actual colorimetric color correction. This mode follows ICC guidelines for colorimetric color matching.
- **CMYK Simulation**
Use this mode for printing pre-press proofs. This mode simulates the print effect of offset press CMYK printing according to standards such as SWOP.

Cover page (Front cover different)

Prints a front cover (the first page of a print job) on media different from the rest of the printed document.

Font Substitution Table

The options are:

- **TrueType Font/Printer Font**
Lists the TrueType fonts on your computer and the printer font that is the closest match. To change the default selections for the comparable printer fonts, select any font in the list of printer resident fonts.
- **Printer Font Substituted For: **
This feature enables you to select which PostScript printer font you want to substitute for the selected TrueType font.

Automatic Image Correction

Optimizes printing of photographs or bitmapped images. It enhances RGB images if the exposure level, color balance, sharpness, brightness, or contrast settings in the original image have not been optimized. If an image is already optimized (i.e., properly balanced, high resolution image, etc.), it will not be affected by this setting. The default mode is *Off*.

Smooth Low-Resolution Images

Enhances low-resolution graphics. Ideal for images from the World Wide Web.

Image Quality (Print Mode)

The modes are:

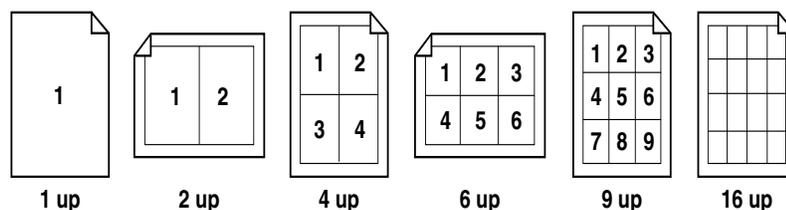
- **Standard**
Sets the resolution to 600 x 600 dpi.
- **Enhanced** (default)
Sets the resolution to 1200 x 600 dpi.

Mirror Image

Flips the image across the vertical axis 180 degrees, thereby reversing the image and all associated text.

Multiple Pages Per Side (N-Up Pages)

By default, the printer prints one page image on the sheet of paper. You can select two, four, six, nine or sixteen page images per side of paper. The printer shrinks the page images as needed and arranges them on the paper most appropriately for the paper size and orientation.



You can also choose to print black borders (draw outlines) around each page. The default is to not print borders.

Negative Image

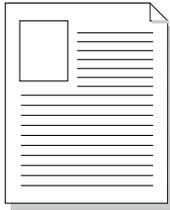
Converts the black image areas in the original to white, the white image areas to black, and any dark gray image areas to light gray. Printing a negative image may be useful for documents that have a substantial amount of dark background and/or light text and images. Color images are not changed by this option. It should only be used on black and white images.

Orientation

Specifies the direction of print on the page.

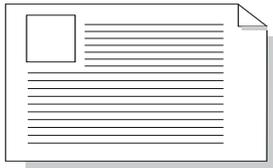
The options are:

- **Portrait**



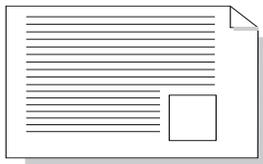
A Portrait page is taller than it is wide. This is the default setting.

- **Landscape**



A Landscape page is wider than it is tall.

- **Rotated Landscape**



A Rotated Landscape page is wider than it is tall and the image on the page is rotated 180 degrees (upside down).

Process Grayscale Graphics

This feature prints black and white images using cyan, magenta, and yellow toner and excludes black toner.

Proof Print

Use this job type for multi-copy jobs when you want to check the first copy before printing all of the copies. You must assign a password (a four-digit value from 0000 to 7777, using only the digits 0 through 7) and a copy count in the driver before submitting the print job. The printer processes, queues and prints the first copy immediately. You must then enter the corresponding password on the printer's front panel to print the rest of the copies. If the first copy is not acceptable, you can delete the print job. For more information, refer to *Printing Secure Print and Proof Print Jobs* on page 37 and *Deleting Secure Print and Proof Print Jobs* on page 38. Proof print jobs remain in the printer through power cycles (off/on).

Note

To use this feature, the printer must have the optional hard drive. You must configure the driver before using Proof Print.

Secure Print

Use this job type when you want to print confidential jobs. You must assign a password (a four-digit value from 0000 to 7777, using only the digits 0 through 7) in the printer driver before submitting the print job. The printer processes and queues the job, but does not print it until you enter the corresponding password on the printer's front panel. For more information, refer to *Printing Secure Print and Proof Print Jobs* on page 37 and *Deleting Secure Print and Proof Print Jobs* on page 38. Secure print jobs remain in the printer through power cycles (off/on).

Note

To use this feature, the printer must have the optional hard drive. You must configure the driver before using Secure Print.

Separation Sheets

With this feature, the printer inserts a separation (slip) sheet at the designated locations (as set in the printer driver) for the print job. You can select slip sheets after each page, print job, or copy of a multi-copy collated print job. You can also designate the source for the separator paper. No printing is done on the separator sheet.

TrueType Options

In the printer driver, you can select one of the following options associated with the use and printing of TrueType fonts:

- **Download as TrueType (default)**
The whole character set for each TrueType font contained on the page is sent down to the printer in an outline form. Use this option if the document uses only a small number of TrueType fonts and you want to optimize text-printing performance.
- **Download as Bit Image**
Each TrueType character is sent as an individual bitmap download font on a least-recently-used basis. As the printer driver builds up the page, new font bitmaps are sent down. When a character is used again, the bitmap is automatically selected from the one previously downloaded to printer memory. From the memory setting, the driver monitors the amount of available memory to determine when to delete font bitmaps that have not been used for some time.
- **Download as graphics and device fonts**
This option is useful if you want to print graphic images over TrueType text. Unless you select this option, TrueType text is sent to the printer last, so it always appears on top of any graphics. Selecting this option sends your TrueType images to the printer as graphic images, so the text can be obscured by graphic objects.
- **Use Printer TrueType fonts**
Specifies whether to use the TrueType fonts that reside on the printer or to download TrueType fonts from the computer. If enabled (the default setting), the driver uses the TrueType fonts resident on the printer, and if your document uses fonts that do not reside on the printer, the driver downloads the fonts with the job. If disabled, the driver always downloads TrueType fonts to the printer with each job, even if the fonts reside on the printer already.

Watermark

Prints background text across the first page or every page of a document.



- This driver feature is independent from features provided by the application.
- The driver enables you to specify the text, font, size, position on the page, and rotation angle of the watermark.
- You can create and save unique watermarks for use on any document.
- You may also select a default watermark from a list of predefined watermarks, such as CONFIDENTIAL, COPY, or DRAFT.

Managing Printer Usage

This section provides information on the features of the printer's front panel, which is used to manage printer usage, set default values, and generate printer reports (such as the Configuration Page).

This section also briefly discusses remote printer management software available for use with your printer.

The Front Panel

The printer's front panel:

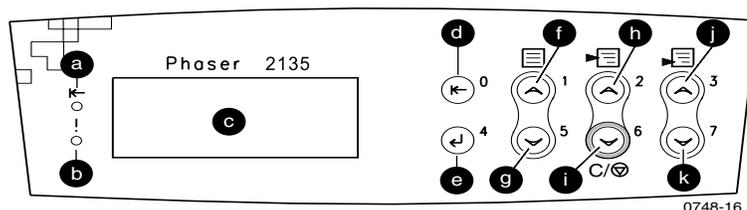
- Displays information about the status of the printer or the job in process.
- Enables you to cancel the print job currently printing (by using the [Item Down/Cancel](#) key).
- Enables you to change printer settings that control how the printer operates.
- Enables you to specify the paper type in a tray.
- Enables you to print reports.
- Enables you to print password-protected print jobs stored on the optional hard drive.

Front Panel Layout

The front panel contains:

- Two indicator lights
- A two-line display screen (24 characters per line)
- Eight front panel keys

Your printer's front panel will either have icons and text, or icons only



- | | | | |
|---|-------------------------|---|-------------------------|
| a | On-line indicator light | g | Menu Down button |
| b | Fault indicator light | h | Item Up button |
| c | Two-line display | i | Item Down/Cancel button |
| d | On-line button | j | Value Up button |
| e | Enter button | k | Value Down button |
| f | Menu Up button | | |

Indicator lights

The front panel contains two indicator lights.

Indicator Light	Meaning
On Line (Green)	<ul style="list-style-type: none"> ■ Light is on (Green) — The printer is online. ■ Light flashes two times per second — The printer is going from online to offline. ■ Light flashes one time per second — The printer is processing a print job. ■ Light is off — The printer is offline.
Fault (Red)	<ul style="list-style-type: none"> ■ Light is off — Normal operation. ■ Light is on (Red) — The printer stopped because operator intervention is needed, such as closing an open door or clearing a paper jam. Read the message shown on the front panel display screen. Refer to the <i>Front Panel Messages</i> section starting on <i>page 78</i> for information on the problem and corrective actions.

Display screen

The front panel's display screen:

- Provides access to a hierarchy of menus to configure and control the printer. Access the menus by pressing the **Menu Up** or **Menu Down** keys. For more information on the menu structure, refer to *page 40*.
- Displays information about the status of the printer (or the job in process):

Examples:

- The printer is online and ready to accept print jobs.

**Phaser 2135xx
Ready**

Where xx is the model number.

- The printer is processing data.

Processing...

- A supply is empty; in this case, the magenta toner cartridge is empty and must be replaced immediately to continue printing.

**Magenta Toner Empty
Replace Magenta Toner**

- A tray is empty; in this case, Tray 2 is empty and is no longer being used to print.

Tray 2 Empty

- There is a problem; in this case, a paper jam inside the top cover.

<p>Jam Inside Top Cover Open Cover, See Labels</p>
--

Refer to the *Front Panel Messages* section (starting on page 78) for a complete table of display screen messages and what action you need to perform to solve the problem.

Front panel keys

The front panel keypad consists of eight keys, identified with international symbols and labeled in English. The keys are also numbered 0 through 7 for use when entering passwords.

Using the keys for bringing the printer online/taking the printer offline

- When the printer is online (and not in the menu system), press the **On Line** key (labeled 0) to take the printer offline. All pages currently in the paper path are printed and then printing pauses until the printer is brought online again.
- When the printer is in the menu system, press the **On Line** key (labeled 0) to exit the menu system. The printer is brought online again.
- When the printer is offline, press the **On Line** key (labeled 0) to bring the printer online.

Using the keys for menus

1. Press the **Menu Up** key (labeled 1) or **Menu Down** key (labeled 5) to enter the menu system and scroll through the menus.
2. Press the **Item Up** key (labeled 2) or **Item Down** key (labeled 6) to scroll through the menu items for the selected menu.
3. If the menu item has a value, use the **Value Up** key (labeled 3) or **Value Down** key (labeled 7) to scroll through the values of the selected menu item.
4. Press the **Enter** key (labeled 4) to enter the current value for a menu item, or if the menu item doesn't take a value, perform the action specified by the menu item (such as printing the PCL Font List from the Print menu).
5. Press the **On Line** key (labeled 0) to exit the menu system.

Note

The printer automatically exits the menu system if no keystrokes are detected for 60 seconds.

For more information on the menus, refer to the *Front Panel Menus* section starting on page 40.

Front Panel Operations

Using the Front Panel Menu

For a description of the menus, menu items, and values, refer to the *Front Panel Menu* section starting on *page 40*.

1. Press the **Menu Up** or **Menu Down** key (labeled 1 or 5) to scroll through the available menus until you locate the one you want.

The following sample front panel screen shows the **Printer Setup Menu**.

```

Menus
Printer Setup Menu
  
```

2. Press the **Item Up** or **Item Down** key (labeled 2 or 6) to scroll through the menu items. If you are in the Password Menu, you must first press the **Item Up** or **Item Down** key (labeled 2 or 6) to access the password prompt and type the password using the front panel keys.

The following sample front panel screen shows the **Language** menu item of the **Printer Setup Menu**.

```

Printer Setup Menu
Language
  
```

For some menus, the menu item indicates the action to be taken. Other menu items require a value.

3. If the menu item doesn't need a value, press the **Enter** key (labeled 4) to select that menu item.
4. If a value is needed for the menu item, press the **Value Up** or **Value Down** key (labeled 3 or 7) to select the appropriate value for the menu item.

The following sample front panel screen shows the **Italiano** value for the **Language** menu item (of the **Printer Setup Menu**).

```

Language      =
Italiano
  
```

If the list of values is long, you can scroll quickly by holding down the **Value Up** or **Value Down** key.

5. Press the **Enter** key (labeled 4) to select that value for the menu item.

6. Exit the menu system:

- After 60 seconds of inactivity (no key has been pressed), the printer automatically exits the menu system.

or

- Press the **On Line** key (labeled 0).

The front panel screen displays **Ready**.

```
Phaser 2135xx
Ready
```

The xx represents the model number.

Note

If you press the **On Line** key (labeled 0) before pressing the **Enter** key (labeled 4), in Step 5, the new value will not be saved.

Front panel menu indicators

The two menu indicators = and * are used to provide information about menu items and values.

- The = indicator only appears after options which can have a value — it indicates that a value or setting follows the option.

In the following sample front panel screen, **Language** is a menu item (on the **Printer Setup Menu**) that takes a specific value; the value currently shown is **Italiano**. Another value is **English**. When you press the **Value Up** or **Value Down** key (labeled 3 or 7), the available values are displayed one at a time on the second line of the display.

```
Language      =
Italiano
```

- The * indicator identifies the current value.

In the following example, the **Language** is currently set to **English**.

```
Language
English      *
```

Selecting Paper Size and Type

Whenever you load paper in the Multi-sheet Bypass Feeder, the printer prompts you for the paper type and size.

Whenever you load paper in a tray, the printer prompts you only for the paper type. The trays have paper size sensing, and are therefore automatically configured for paper size when media is properly loaded.

To specify the paper type in the newly-loaded tray:

1. When prompted on the front panel, press the **Value Up** or **Value Down** key (labeled 3 or 7) to scroll to the correct paper type; the choices are shown in the following table.
2. Press the **Enter** key (labeled 4).

Tray 1 Types	Plain Paper Heavy Paper Phaser 2135 Transparency	Glossy Paper Thin Card Stock Light Paper
Tray <i>N</i> Type (where <i>N</i> is the tray number — Tray 2, 3, 4, or 5, if installed)	Plain Paper Heavy Paper	Thin Card Stock Light Paper

To specify the paper type and size in the Multi-sheet Bypass Feeder (MBF):

1. When prompted on the front panel, press the **Value Up** or **Value Down** key (labeled 3 or 7) to scroll to the correct paper type; the choices are shown in the following table.
2. Press the **Enter** key (labeled 4).
3. Press the **Value Up** or **Value Down** key (labeled 3 or 7) to scroll to the correct paper size; the choices are shown in the following table.
4. Press the **Enter** key (labeled 4).

MBF Type	Plain Paper Heavy Paper Phaser 2135 Transparency Glossy Paper Thick Card Stock	Thin Card Stock Labels Envelopes Business Cards Light Paper
----------	--	---

MBF Size	11 x 8.5" Letter LEF	A6 105 x 148 mm
	8.5 x 11" Letter SEF	JIS B4 257 x 364 mm
	8.5 x 14" Legal	JIS B5 LEF 257 x 182 mm
	11 x 17" Ledger/Tabloid	JIS B5 SEF 182 x 257 mm
	7.25 x 10.5" Executive	SRA3 320 x 450 mm
	8.5 x 13" Folio	A3 Nobi 328 x 450 mm
	12 x 18" Tabloid Plus	SP Folio 215 x 315 mm
	10 x 8" Quatro	No. 10 Env 9.5 x 4.13"
	8 x 13"	DL Env 220 x 110 mm
	5.5 x 8.5" Statement	Monarch Env 7.5 x 3.88"
	A4 LEF 297 x 210 mm	C4 Env 324 x 229 mm
	A4 SEF 210 x 297 mm	C5 Env 229 x 162 mm
	A3 297 x 420 mm	B5 Env 250 x 179 mm
	A5 148 x 210 mm	12 x 9" Envelope

Note

It is strongly recommended that you use long-edge feed (LEF) for Letter, A4, and JIS B4 paper sizes, except for business cards, which must be fed short-edge feed (SEF).

Printing the Printer's Internal Pages

The following list contains examples of pages that can be printed:

- Configuration Page
- Menu Map
- Supplies Usage Page
- Connection Setup Page
- Paper Tips Page
- Print Quality Tips Page
- Warranty Page
- Diagnosing Print Quality Problems Page
- Help Guide
- Office and Graphics Demos

For information on specific reports, refer to the *Print Menu* section on *page 55*, the *Supplies Info Menu* section on *page 42*, the section on *page 56*, and the *Ethernet Menu* section on *page 43*.

To print a report:

1. On the front panel, press the **Menu Up** or **Menu Down** key (labeled 1 or 5) to scroll through the available menus until you locate the appropriate menu. For example, to print the **Configuration Page**, scroll to the **Printer Setup Menu**.

Menus
Printer Setup Menu

2. Press the **Item Up** or **Item Down** key (labeled 2 or 6) to scroll until you see the report you want to print (such as **Print Configuration Page**).

Printer Setup Menu
Print Configuration Page

3. Press the **Enter** key (labeled 4) to print that report.

Printing Secure Print and Proof Print Jobs

If the printer has the optional hard drive, you can store print jobs in the printer using a password. When the corresponding password is entered on the front panel, they are printed. Once the job is printed, it is automatically deleted from the printer's hard disk drive.

There are two types of password-controlled jobs:

- Secure printing — the printer will not print the job until you enter the password on the front panel

- Proof printing — the printer only prints one copy of the job so that you can proof it; to print the remaining copies, enter the password on the front panel

To send a password-controlled job to the printer, select either Secure Print or Proof Print in the printer driver and enter a 4-digit numeric password, where each digit of the password is a numeric value from 0 to 7. Numbers 8 and 9 are not allowed.

To release the secure job or the remaining copies of the proof job for printing, enter the password on the printer's front panel:

1. Press the **Menu Up** or **Menu Down** key (labeled 1 or 5) to scroll to the **Password Menu**.
2. Press the **Item Up** or **Item Down** key (labeled 2 or 6) to scroll to the password prompt.
3. Use the number keys to enter the 4-digit password for the job(s) you want to access.
4. To print all of the jobs with this password, press the **Enter** key (labeled 4).
5. Press the **On Line** key (labeled 0) to exit the menus.

Deleting Secure Print and Proof Print Jobs

Secure print and proof print jobs remain on the printer's hard drive even when you turn off the printer.

To delete a secure print or proof print job sent to the printer and stored on the optional hard drive:

1. Press the **Menu Up** or **Menu Down** key (labeled 1 or 5) to scroll to the **Password Menu**.
2. Press the **Item Up** or **Item Down** key (labeled 2 or 6) once.
3. Use the number keys to enter the 4-digit password for the job(s) you want to access.
4. Press the **Value Up** or **Value Down** key (labeled 3 or 7) to scroll to **Delete**.
5. To delete all of the jobs with this password, press the **Enter** key (labeled 4).

Note

If you only want to delete a specific job, press the **Item Up** or **Item Down** key to scroll to the job you want to delete, then press the **Enter** key.

6. Press the **On Line** key (labeled 0) to exit the menus.

Setting Network Addresses

The procedure for setting Ethernet and Novell addresses requires a different keying technique than does the basic menu navigation to set values for other menu items. Use this procedure for setting any of the following:

- Ethernet Menu:
 - IP Address
 - Subnet Mask
 - Default Gateway
- Novell Menu:

- Primary Server
- NDS Context
- PServer Name
- NDS Tree

To set an address:

1. Press the **Menu Up** or **Menu Down** key (labeled 1 or 5) to scroll to the desired menu.

The following sample front panel screen shows the **Ethernet Menu**.

```
Menus
Ethernet Menu
```

2. Press the **Item Up** or **Item Down** key (labeled 2 or 6) to scroll to the address that you want to set.

The following sample front panel screen shows the **IP Address** menu item of the **Ethernet Menu**.

```
Ethernet Menu
IP Address
```

3. Press the **Value Up** or **Value Down** key (labeled 3 or 7) to see the current address or zeros (if no address has been assigned). The underline indicates the position of the cursor, which starts at the first digit.

```
IP Address
000.000.000.000
```

4. To change the value of the first digit, press the **Value Up** or **Value Down** key (labeled 3 or 7) until you have set the correct value for that digit.
5. Press the **Item Up** key (labeled 2) to move the cursor to the next digit.

```
IP Address
200.000.000.000
```

6. To change the value of the underlined digit, press the **Value Up** or **Value Down** key (labeled 3 or 7) until you have set the correct value for that digit.
7. Continue to use the **Item Up** key (labeled 2) to move to the next digit to the right and use the **Value Up** or **Value Down** key (labeled 3 or 7) to change the value of the underlined digit.
8. When you have completed the address, press the **Enter** key (labeled 4), then press the **On Line** key (labeled 0).
9. For the new value to take effect, you need to power the printer off and on again.

Front Panel Menus

The front panel's menu system is a hierarchy of menus, menu items, and menu item values. The menus are used to configure the printer for your environment.

The front panel provides access to the following menus:

- Print Menu Map — see *page 41*
- Printer Identification Menu — see *page 41*
- Supplies Info Menu — see *page 42*
- Ethernet Menu — see *page 43*
- Novell Menu — see *page 46*
- Printer Setup Menu — see *page 50*
- Print Menu — see *page 55*
- Support Menu — see *page 56*
- Color Adjust Menu — see *page 59*
- PostScript Menu — see *page 61*
- PCL Menu — see *page 62*
- Parallel Menu — see *page 64*
- Password Menu¹ — see *page 65*
- Reset Menu² — see *page 66*

Press either the **Menu Up** or **Menu Down** key (labeled 1 and 5) to access the menus.

The following tables list the menu items and values for each of the menus. They are organized in the order that they appear when scrolling through the display.

Note

When you submit your print jobs for printing, the printer settings selected in your application or printer driver override the settings on the front panel.

1. Appears only when the Hard Drive is installed.

2. Appears only when printer is powered on while holding down specific front panel keys.

Print Menu Map

When you press the **Enter** key (labeled 4), a report showing the structure of the front panel menus prints.

Printer Identification Menu

Displays the selected printer identification information when you press the **Value Up** key (labeled 3), the **Value Down** key (labeled 7), or the **Enter** key (labeled 4).

Printer ID Menu Items

Menu Items	Description
Model	Displays the model of the printer, such as 2135 DX.
Printer Name	Displays the name that your System Administrator has given the printer.
Printer Server	Displays the name of the Novell print server name.
IP Address	Displays the IP address assigned to the printer
Serial Number	Displays the serial number of the printer.
First Usage Date	Displays the installation date of the printer.

Supplies Info Menu

Displays or prints the selected printer supplies information when you press the **Enter** key (labeled 4). Use the **Value Up** or **Value Down** keys (labeled 3 and 7) to change between the status or installation of each item.

Supplies Info Menu Items

Menu Items	Description
Print Supplies Page	Prints a report showing the status and installation dates of the toner cartridges, imaging drums, fuser, and transfer belt and the installation date of the printer.
Black Toner	On the front panel, displays the status (OK , Low , or Empty) and installation date of the black toner cartridge.
Cyan Toner	On the front panel, displays the status (OK , Low , or Empty) and installation date of the cyan toner cartridge.
Magenta Toner	On the front panel, displays the status (OK , Low , or Empty) and installation date of the magenta toner cartridge.
Yellow Toner	On the front panel, displays the status (OK , Low , or Empty) and installation date of the yellow toner cartridge.
Black Imaging Drum	On the front panel, displays the status (percentage remaining) and installation date of the black imaging drum.
Cyan Imaging Drum	On the front panel, displays the status (percentage remaining) and installation date of the cyan imaging drum.
Magenta Imaging Drum	On the front panel, displays the status (percentage remaining) and installation date of the magenta imaging drum.
Yellow Imaging Drum	On the front panel, displays the status (percentage remaining) and installation date of the yellow imaging drum.
Fuser	On the front panel, displays the status (percentage remaining) and installation date of the fuser.
Transfer Belt	On the front panel, displays the status (percentage remaining) and installation date of the transfer belt.
Total Print Count	On the front panel, displays the total number of prints made and the installation date of the printer.

Ethernet Menu

Sets options for the Ethernet port connection.

Ethernet Menu Items

Menu Items	Description
Print Connect Setup Page	Prints a page that provides instructions for connecting the printer to a computer or network.
Print Configuration Page	Prints the Configuration Page which shows the printer's current information and menu settings. It lists the printer name, software revision level, communication parameter settings, options installed, current option settings in the front panel's menu system, and print counts.
IP Address Resolution	<p>Sets the method used to assign the IP address, including Subnet mask and default gateway.</p> <p>Values:</p> <ul style="list-style-type: none"> Static BOOTP DHCP (default)
IP Address	<p>Sets the four byte IP address. (This menu item only appears if IP Address Resolution is set to static.)</p> <p>Values:</p> <p>xxx . xxx . xxx . xxx where xxx = 000 to 255</p> <p>Note</p> <p>Once the front panel shows IP Address on the top line, use the Value Up or Value Down key (labeled 3 and 7) to scroll to the desired value at the cursor location. To move the cursor, use the Item Up or Item Down key (labeled 2 and 6). Thus, you can change characters within the address rather than having to re-enter the entire address. The printer must be turned off and on before the changes will take effect.</p> <p>For more information, refer to the <i>Setting Network Addresses</i> section on page 38.</p>
Subnet Mask	<p>Sets the four byte Subnet Mask address. (This menu item only appears if IP Address Resolution is set to static.)</p> <p>Values:</p> <p>xxx . xxx . xxx . xxx where xxx = 000 to 255</p> <p>Note</p> <p>Once the front panel shows Subnet Mask on the top line, use the Value Up or Value Down key (labeled 3 and 7) to scroll to the desired value at the cursor location. To move the cursor, use the Item Up or Item Down key (labeled 2 and 6). Thus, you can change characters within the address rather than having to re-enter the entire address. The printer must be turned off and on before the changes will take effect.</p> <p>For more information, refer to the <i>Setting Network Addresses</i> section on page 38.</p>

Ethernet Menu Items (cont'd.)

Menu Items	Description
Default Gateway	<p>Sets the four byte Default Gateway address. (This menu item only appears if IP Address Resolution is set to static.)</p> <p>Values:</p> <p style="padding-left: 40px;">xxx . xxx . xxx . xxx where xxx = 000 to 255</p> <p>Note</p> <p>Once the front panel shows Default Gateway on the top line, use the Value Up or Value Down keys (labeled 3 and 7) to scroll to the desired value at the cursor location. To move the cursor, use the Item Up or Item Down keys (labeled 2 and 6). Thus, you can change characters within the address rather than having to re-enter the entire address. The printer must be turned off and on before the changes will take effect.</p> <p>For more information, refer to the <i>Setting Network Addresses</i> section on page 38.</p>
LPR Enable	<p>Sets the Ethernet LPR protocol.</p> <p>Values:</p> <p style="padding-left: 40px;">On (default) Off</p>
LPR Banner	<p>Sets the LPR banner sheet.</p> <p>Values:</p> <p style="padding-left: 40px;">On Off (default)</p>
LPR PDL	<p>Sets the default page description language interpreter for the Ethernet LPR protocol.</p> <p>Values:</p> <p style="padding-left: 40px;">Auto (default) PCL PostScript</p> <p>Note</p> <p>To submit TIFF and PDF files to the printer, this value must be Auto.</p>
AppSocket Enable	<p>Sets the Ethernet AppSocket interface.</p> <p>Values:</p> <p style="padding-left: 40px;">On (default) Off</p>

Ethernet Menu Items (cont'd.)

Menu Items	Description
AppSocket PDL	<p>Sets the default page description language interpreter for the Ethernet AppSocket interface.</p> <p>Values:</p> <p>Auto (default) PCL PostScript</p> <p>Note</p> <p>To submit TIFF and PDF files to the printer, this value must be Auto.</p>
EtherTalk Enable	<p>Sets the Ethernet EtherTalk protocol.</p> <p>Values:</p> <p>On (default) Off</p>
HTTP Enable	<p>Sets the Ethernet HTTP Server protocol.</p> <p>Values:</p> <p>On (default) Off</p>
IPP Enable	<p>Sets the Ethernet IPP protocol.</p> <p>Values:</p> <p>On (default) Off</p>
SMB Enable	<p>Sets the Ethernet SMB protocol.</p> <p>Values:</p> <p>On (default) Off</p>
SMB PDL	<p>Sets the default page description language interpreter for the Ethernet SMB protocol.</p> <p>Values:</p> <p>Auto (default) PCL PostScript</p> <p>Note</p> <p>To submit TIFF and PDF files to the printer, this value must be Auto.</p>
Port Timeout	<p>Sets the time for determining when to end an incomplete print job and poll the next port in the polling sequence. This menu item also causes an implicit job end (such as Control D in PostScript or <ESC> E in PCL) and invokes the emulation functions associated with this action (e.g., formfeed, reset, etc.).</p> <p>Values (in seconds):</p> <p>5 - 300 (default is 60)</p> <p>The value changes by 1 each time you press either the Value Up or Value Down key (labeled 3 and 7). Hold down either key to scroll quickly through the values.</p>

Ethernet Menu Items (cont'd.)

Menu Items	Description
Speed	Sets the speed of the 100 Mbit Ethernet interface. Values: Auto (default) 10/HALF 10/FULL 100/HALF 100/FULL where HALF = half duplex and FULL = full duplex
Reset Network Setup	Resets network parameters (including the Novell PServer Name, the TCP/IP Address, and other associated Ethernet parameters) to factory default values. Values: Yes No (default)

Novell Menu

Sets Novell parameters.

Novell Menu Items

Menu Items	Description
Print Connect Setup Page	Prints a page that provides instructions for connecting the printer to a computer or network.
Print Configuration Page	Prints the Configuration Page showing the printer's current information and menu settings. It lists the printer name, software revision level, communication parameter settings, options installed, current option settings in the front panel's menu system, and print counts.
Novell Enable	Sets the Novell protocol. Values: On (default) Off
NDS Tree	Sets the NDS Tree character string (from 0 to 63 characters in length). Values: Null (default) A - Z, 0 - 9, hyphen (-), and underscore (_)

Note

Once the front panel shows **NDS Tree** on the top line, use the **Value Up** or **Value Down** key (labeled 3 and 7) to scroll to the desired value at the cursor location. To move the cursor, use the **Item Up** or **Item Down** key (labeled 2 and 6). Thus, you can change characters within the string rather than having to re-enter the entire string.

From any cursor position, you can null out (delete) to the end of the string by selecting the space character with the **Value Up** or **Value Down** key (labeled 3 and 7) and then pressing the **Enter** key (labeled 4).

If you make a change in this menu item, turn off the printer, wait 15 seconds, then turn on the printer.

Novell Menu Items (cont'd.)

Menu Items	Description
NDS Context	<p>Sets the NDS context string (from 0 to 127 characters in length).</p> <p>Values:</p> <ul style="list-style-type: none"> Null (default) A - Z, 0 - 9, hyphen (-), period (.), and underscore (_) <p>Note</p> <p>Once the front panel shows NDS Context on the top line, use the Value Up or Value Down key (labeled 3 and 7) to scroll to the desired value at the cursor location. To move the cursor, use the Item Up or Item Down key (labeled 2 and 6). Thus, you can change characters within the string rather than having to re-enter the entire string.</p> <p>From any cursor position, you can null out (delete) to the end of the string by selecting the space character with the Value Up or Value Down key and then pressing the Enter key (labeled 4).</p> <p>If you make a change in this menu item, turn off the printer, wait 15 seconds, then turn on the printer.</p>
Frame Type	<p>Sets the frame type used for the Novell protocol.</p> <p>Values for Ethernet:</p> <ul style="list-style-type: none"> Auto (default) 802.2 802.3 SNAP Ethernet II
Polling Interval	<p>Sets the rate (in seconds) at which the PServer issues polling requests for assigned queues.</p> <p>Values (in seconds):</p> <ul style="list-style-type: none"> 1 - 29 (default is 2) <p>The value changes by 1 each time you press either the Value Up or Value Down key (labeled 3 and 7). Hold down either key to scroll quickly through the values.</p>

Novell Menu Items (cont'd.)

Menu Items	Description
Primary Server	<p>Sets the name of the Primary file server (a name of 2 to 47 characters in length).</p> <p>Values:</p> <p>Null (default) A - Z, 0 - 9, hyphen (-), and underscore (_)</p> <p>Note</p> <p>Once the front panel shows Primary Server on the top line, use the Value Up or Value Down key (labeled 3 and 7) to scroll to the desired value at the cursor location. To move the cursor, use the Item Up or Item Down key (labeled 2 and 6). Thus, you can change characters within the server name rather than having to re-enter the entire server name.</p> <p>From any cursor position, you can null out (delete) to the end of the string by selecting the space character with the Value Up or Value Down key and then pressing the Enter key (labeled 4).</p> <p>If you make a change in this menu item, turn off the printer, wait 15 seconds, then turn on the printer.</p>
Novell PDL	<p>Sets the default page description language interpreter for the Novell interface.</p> <p>Values:</p> <p>Auto (default) PCL PostScript</p> <p>Note</p> <p>To submit TIFF and PDF files to the printer, this value must be Auto.</p>
PServer Mode	<p>Sets the PServer mode for the Novell protocol.</p> <p>Values:</p> <p>NDS BEM NDS/BEM (default)</p>

Novell Menu Items (cont'd.)

Menu Items	Description
PServer Name	<p>Sets the name of the PServer in this printer (a name of 2 to 47 characters in length).</p> <p>Values:</p> <p>XR <MAC address> (default) A - Z, 0 - 9, hyphen (-), and underscore (_)</p> <p>Note</p> <p>Once the front panel shows PServer Name on the top line, use the Value Up or Value Down key (labeled 3 and 7) to scroll to the desired value at the cursor location. To move the cursor, use the Item Up or Item Down key (labeled 2 and 6). Thus, you can change characters within the Pserver name rather than having to re-enter the entire name.</p> <p>From any cursor position, you can null out (delete) to the end of the string by selecting the space character with the Value Up or Value Down key and then pressing the Enter key (labeled 4).</p>
Reset Network Setup	<p>Resets network parameters (including the Novell PServer Name, the TCP/IP Address, and other associated Novell parameters) to factory default values.</p> <p>Values:</p> <p>Yes No (default)</p>

Printer Setup Menu

Sets general printer features.

Printer Setup Menu Items

Menu Items	Description
Print Configuration Page	Prints the Configuration Page which shows the printer's current information and menu settings. It lists the printer name, software revision level, communication parameter settings, options installed, current option settings in the front panel's menu system, and print counts.
Language	<p>Sets the language used for front panel display messages and generated reports.</p> <p>Values:</p> <ul style="list-style-type: none"> English Português Français Italiano Deutsch Español Nederlands Svensk <p>Note</p> <p>English is the initial value, which is used when the printer is powered up for the first time. However, even when you perform a "Factory Default" reset, the language setting will change back to English.</p>
Power Saver	<p>Specifies the number of minutes of inactivity before the printer enters a low-power state.</p> <p>Values:</p> <ul style="list-style-type: none"> 15 30 60 (default) 90 120 180 240 <p>Note</p> <p>If you never want the printer to enter Power Saver Mode, use the Disable Power Saver menu item, see <i>page 54</i>.</p>
Startup Page Enable	<p>Specifies whether a startup page prints each time the printer restarts.</p> <p>Values:</p> <ul style="list-style-type: none"> On (default) Off

Printer Setup Menu Items (cont'd.)

Menu Items	Description
Paper Loading Timeout	<p>Specifies how long the printer should wait and prompt the user on the front panel when a requested size/type/tray combination does not exist on the printer. If media is not loaded as requested, the printer will timeout and automatically print the job using paper from another tray. Once the timeout expires, the printer attempts to match the size and type as closely as possible. Finally, it will use whatever tray is available, starting with Tray 1.</p> <p>Values:</p> <ul style="list-style-type: none"> Immediate 30 seconds 1 minute 2 minutes 3 minutes (default) 5 minutes 2 minutes 10 minutes Never
Color Mode	<p>Sets the color mode.</p> <p>Values:</p> <ul style="list-style-type: none"> Automatic (default) GrayScale None Fax Friendly ICC Perceptual ICC Saturation ICC Colorimetric CMYK Simulation <p>For more information on color modes, see <i>page 24</i>.</p>
Print Mode	<p>Sets the print quality.</p> <p>Values:</p> <ul style="list-style-type: none"> Standard (600 x 600 dpi) Enhanced (1200 x 600 dpi) (default)
2-Sided Printing	<p>Enables/disables 2-sided printing for PostScript and PCL jobs. (This menu item only appears if the printer has the Duplex Module installed.)</p> <p>Values:</p> <ul style="list-style-type: none"> Off (default) Long Edge (bind on long edge) Short Edge (bind on short edge) <p>Note</p> <p>For more information on duplex printing and choosing Long Edge or Short Edge, see <i>page 20</i>.</p>
Job Offset	<p>Enables/disables offsetting of jobs in the top output tray.</p> <p>Values:</p> <ul style="list-style-type: none"> Off On (default) <p>Note</p> <p>This setting does not affect the side output tray.</p>

Printer Setup Menu Items (cont'd.)

Menu Items	Description																										
Default Paper Size	<p>Sets the default paper size used in all print jobs that do not have page size information.</p> <p>Values:</p> <table border="0"> <tr> <td>11 x 8.5" Letter*</td> <td>JIS B4 257 x 364 mm</td> </tr> <tr> <td>8.5 x 14" Legal</td> <td>JIS B5 257 x 182 mm</td> </tr> <tr> <td>11 x 17" Ledger/Tabloid</td> <td>SRA3 320 x 450 mm</td> </tr> <tr> <td>7.25 x 10.5" Executive</td> <td>A3 Nobi 328 x 450 mm</td> </tr> <tr> <td>8.5 x 13" Folio</td> <td>SP Folio 215 x 315 mm</td> </tr> <tr> <td>12 x 18" Tabloid Plus</td> <td>No. 10 Env 9.5 x 4.13"</td> </tr> <tr> <td>10 x 8" Quatro</td> <td>DL Env 220 x 110 mm</td> </tr> <tr> <td>8 x 13"</td> <td>Monarch Env 7.5 x 3.88"</td> </tr> <tr> <td>5.5 x 8.5" Statement</td> <td>C4 Env 324 x 229 mm</td> </tr> <tr> <td>A4 297 x 210 mm*</td> <td>C5 Env 229 x 162 mm</td> </tr> <tr> <td>A3 297 x 420 mm</td> <td>B5 Env 250 x 179 mm</td> </tr> <tr> <td>A5 148 x 210 mm</td> <td>12 x 9" Envelope</td> </tr> <tr> <td>A6 105 x 148 mm</td> <td></td> </tr> </table> <p>* When Inches is set as the Default Units value, the default size is 11 x 8.5" Letter. When Millimeters is set as the Default Units value and the default size is A4 297 x 210 mm in the Printer Setup Menu.</p>	11 x 8.5" Letter*	JIS B4 257 x 364 mm	8.5 x 14" Legal	JIS B5 257 x 182 mm	11 x 17" Ledger/Tabloid	SRA3 320 x 450 mm	7.25 x 10.5" Executive	A3 Nobi 328 x 450 mm	8.5 x 13" Folio	SP Folio 215 x 315 mm	12 x 18" Tabloid Plus	No. 10 Env 9.5 x 4.13"	10 x 8" Quatro	DL Env 220 x 110 mm	8 x 13"	Monarch Env 7.5 x 3.88"	5.5 x 8.5" Statement	C4 Env 324 x 229 mm	A4 297 x 210 mm*	C5 Env 229 x 162 mm	A3 297 x 420 mm	B5 Env 250 x 179 mm	A5 148 x 210 mm	12 x 9" Envelope	A6 105 x 148 mm	
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A3 297 x 420 mm	B5 Env 250 x 179 mm																										
A5 148 x 210 mm	12 x 9" Envelope																										
A6 105 x 148 mm																											
Default Paper Type	<p>Sets the default paper type used in PostScript and PCL.</p> <p>Values:</p> <table border="0"> <tr> <td>Plain Paper (default)</td> <td>Thin Card Stock</td> </tr> <tr> <td>Heavy Paper</td> <td>Labels</td> </tr> <tr> <td>Phaser 2135 Transparency</td> <td>Envelopes</td> </tr> <tr> <td>Glossy Paper</td> <td>Light Paper</td> </tr> <tr> <td>Thick Card Stock</td> <td></td> </tr> </table>	Plain Paper (default)	Thin Card Stock	Heavy Paper	Labels	Phaser 2135 Transparency	Envelopes	Glossy Paper	Light Paper	Thick Card Stock																	
Plain Paper (default)	Thin Card Stock																										
Heavy Paper	Labels																										
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Glossy Paper	Light Paper																										
Thick Card Stock																											
Default Units	<p>Specifies the type of factory defaults to use when a "Reset System Menu" is performed.</p> <p>Values:</p> <p>Inches Millimeters</p> <p>Note</p> <p>When set to Inches, the default Paper Size value is 11 x 8.5" Letter; the default Multi-Sheet Bypass Feeder (MBF) Size is set to 11 x 8.5" Letter; the default Form Length is set to 60.</p> <p>When set to Millimeters, the default Paper Size value is set to A4 297 x 210 mm; the default Multi-Sheet Bypass Feeder (MBF) Size is set to A4 297 x 210 mm; the default Form Length is set to 64.</p>																										
Print Quantity	<p>Sets multiple copies of each page when specified in the driver (not collated sets).</p> <p>Values:</p> <p>1 - 999 (default is 1)</p> <p>Note</p> <p>The number changes incrementally by 1 each time you press either the Value Up or Value Down key (labeled 3 and 7). To scroll quickly through the numbers, hold down either key.</p>																										

Printer Setup Menu Items (cont'd.)

Menu Items	Description
Disable Power Saver	Sets the Power Saver Timeout to an infinite value, so the power saver never turns on. Values: Yes (Power Saver disabled) No (default)
Reset Printer Setup Menu	Resets the printer operating parameters to factory default values. (Doesn't reset the consumable counters, the installation dates, or the network settings.) Values: Yes No (default)

Print Menu

Generates printer reports.

Print Menu Items

Menu Items	Description
Graphics Demonstration	Prints a sample page demonstrating the printer's graphics capabilities. This page contains primarily graphics. 1 - 999 (default is 1)
	Note The number changes incrementally by 1 each time you press either the Value Up or Value Down key (labeled 3 and 7). To scroll quickly through the numbers, hold down either key.
Office Demonstration	Prints a sample page demonstrating the printer's office printing capabilities. This page contains both text and graphics. 1 - 999 (default is 1)
	Note The number changes incrementally by 1 each time you press either the Value Up or Value Down key (labeled 3 and 7). To scroll quickly through the numbers, hold down either key.
2-Sided Demonstration	Prints a sample page demonstrating 2-sided printing. The Graphics Demonstration is on one side and the Office Demonstration is on the other. 1 - 999 (default is 1)
	Note The number changes incrementally by 1 each time you press either the Value Up or Value Down key (labeled 3 and 7). To scroll quickly through the numbers, hold down either key.
Print CMYK Sampler Pages	Prints sample pages using CMYK color palette.
Print RGB Sampler Pages	Prints sample pages using RGB color palette.
Print Menu Map	Prints a report showing the structure of the front panel menus.
Print Quality Tips Page	Prints a report giving print quality tips.
Print Startup Page	Prints the page that is automatically printed on startup, if not disabled.
Print Configuration Page	Prints the Configuration Page which shows the printer's current information and menu settings. It lists the printer name, software revision level, communication parameter settings, options installed, current option settings in the front panel's menu system, and print counts.
Print PS Font List	Prints a complete list of all PostScript language typefaces currently loaded, including printer resident fonts and fonts stored on the hard disk.
Print PCL Font List	Prints a list of PCL fonts currently loaded, including resident fonts and fonts stored on the hard disk.
Print Disk Directory	Prints a copy of the disk directory, which lists disk statistics and the disk space used and remaining, including fonts, forms, and macros.

Print Menu Items (cont'd.)

Menu Items	Description
Select Tray	Selects the source tray from which reports are printed. Values: Tray 1 (default) Tray 2 Tray 3 Tray 4 Tray 5 Multi-Sheet Bypass Feeder

Support Menu

Provides tools and information to help troubleshoot problems.

Support Menu Items

Menu Items	Description
Print Help Guide	Prints a report giving helpful hints for solving printer problems. It also directs you to the appropriate resources.
Print Diagnostic Pages	Prints the Diagnosing Print Quality Problems Page to help solve print-quality problems.
Print Warranty Page	Prints a copy of the printer warranty.
Remove Print Smears	Prints three blank pages to clean off extra toner.
Print Paper Tips Page	Prints a report giving paper tips to ensure the best print quality and to avoid paper jams.
Print Quality Tips Page	Prints a report giving print quality tips.
Print Test Patterns	Prints the system test patterns: Values: <ul style="list-style-type: none"> 100% Stripe PS Pattern A PS Pattern A Large Color Balance Gray Halftone Blank Black Step Cyan Step Magenta Step Yellow Step Print Artifact Scale Print All Patterns (default)
Adjust Left Margin	Increases the left margin on the printed page by moving the image the specified number of millimeters to the right. Values (in millimeters): -10 - +10 (default is 0, no change) <p>Note</p> <p style="padding-left: 4em;">A negative value moves the image towards the left on the printed page.</p>
Adjust Top Margin	Increases the top margin on the printed page by moving the image the specified number of millimeters downward. Values (in millimeters): -10 - +10 (default is 0, no change) <p>Note</p> <p style="padding-left: 4em;">A negative value moves the image upward on the printed page.</p>

Support Menu Items (cont'd.)

Menu Items	Description
Show S/W Levels	On the front panel, displays the current software versions (or levels): Adobe PostScript Boot Date Engine Version Use the Value keys (labeled 3 and 7) to scroll through the displayed values.
Show Active Faults	On the front panel, displays all active (current) faults, from highest priority to lowest priority. Use the Value keys (labeled 3 and 7) to scroll through the displayed values.
Show Event History	On the front panel, displays the last 50 printer events. Use the Value keys (labeled 3 and 7) to scroll through the events. The most recent is displayed first.
Print Service Pack	Prints the system test patterns and configuration pages used by the Xerox service organization: Printer Diagnostics Page Configuration Page Network Diagnostics Page System Event Log
Reset NVRAM	Resets all printer and network operating parameters to factory default values. This doesn't reset the consumable counters or the installation dates. Values: Yes No (default) Note This is the same as performing both the Reset Factory Defaults and Reset Network Defaults menu items from the Reset menu.

Color Adjust Menu

Allows you to make fine adjustments to the printer's color rendering. When you scroll to **Color Adjust Menu**, press the **Item Up** or **Item Down** key (labeled 2 or 6) to scroll to the Print Color Adjustment Test Page and press **Enter** to print. Use this print to determine the settings to adjust. After you make the adjustments, use the **Exit** menu item (instead of the **On Line** key) to exit the Color Adjust menu.

Color Adjust Menu Items

Menu items	Description
Print Color Adjustment Test Page	Prints the Color Balance page.
Black Density	<p>Specifies a fine adjustment of black density.</p> <p>Values:</p> <ul style="list-style-type: none"> -3K -2K -1K 0 (current state) +1K +2K +3K <p>The value zero (0) represents the current state (i.e., no change will be made). When you change the value, the printer prints another test print for your evaluation.</p>
Color Density	<p>Specifies a fine adjustment of color density.</p> <p>Values:</p> <ul style="list-style-type: none"> -3CMY -2CMY -1CMY 0 (current state) +1CMY +2CMY +3CMY <p>The value zero (0) represents the current state (i.e., no change will be made). When you change the value, the printer prints another test print for your evaluation.</p>
Color Balance	<p>Specifies a fine adjustment of color balance (i.e., no change will be made).</p> <p>Values:</p> <p>0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12</p> <p>The value zero (0) represents the current state.</p> <p>When you change the value, the printer prints another test print for your evaluation.</p>

Color Adjust Menu Items (cont'd.)

Menu items	Description
Exit and Accept Changes	<p>Saves all changes made to color adjustment values during the current session and exits the Color Adjust menu.</p> <p>Values:</p> <ul style="list-style-type: none">YesNo (default) <p>Note</p> <p>Once in the Color Adjust menu, if you press the On Line (labeled 0) key or a Menu key, you automatically go to this menu item. You must press the Value Up or Value Down key (labeled 3 or 7) to choose yes then press the Enter key to save and exit.</p>
Color Defaults	<p>Resets all color adjustment items to their factory default values.</p> <p>Values:</p> <ul style="list-style-type: none">YesNo (default) <p>When you choose to reset the values to factory defaults, the printer prints another test print based on those factory default values.</p>

PostScript Menu

Sets options for the parallel port connection.

PostScript Menu Items

Menu Items	Description
Color Mode	<p>Sets the color mode.</p> <p>Values:</p> <ul style="list-style-type: none"> Automatic (default) GrayScale None Fax Friendly ICC Perceptual ICC Saturation ICC Colorimetric CMYK Simulation <p>For more information on color modes, see <i>page 24</i>.</p>
Print Mode	<p>Sets the print quality.</p> <p>Values:</p> <ul style="list-style-type: none"> Standard (600 x 600 dpi) Enhanced (1200 x 600 dpi) (default)
Black Overprint	<p>Enables/disables the Black Overprint function.</p> <p>Values:</p> <ul style="list-style-type: none"> On (default) Off
Process Grayscale	<p>Enables/disables the Process Grayscale graphics function.</p> <p>Values:</p> <ul style="list-style-type: none"> On Off (default)
Print PS Errors	<p>Specifies whether to use PostScript's built-in error handler/debugger.</p> <p>Values:</p> <ul style="list-style-type: none"> On (default) Off

PCL Menu

Sets the default configuration for the printer when printing PCL emulation jobs.

PCL Menu Items

Menu Items	Description
Font Number	<p>Sets the ID for the default font in PCL.</p> <p>Values:</p> <p>0 - 46 (default is 0)</p> <p>Note</p> <p>These value numbers are assigned by the printer and should not be confused with the user-defined ID numbers associated with font downloading (creation).</p> <p>To scroll quickly through the font values, hold down the Value Up or Value Down key (labeled 3 and 7).</p>
Pitch	<p>Sets the pitch of the default font in PCL when the default font is a scalable fixed-pitch font.</p> <p>Values:</p> <p>00.44 - 99.99 (default is 10.0)</p> <p>Note</p> <p>The pitch changes incrementally by .01 each time you press either the Value Up or Value Down key (labeled 3 and 7). To scroll quickly through the pitch values, hold down either key.</p>
Point Size	<p>Sets the point size of the default font in PCL when the default font is a scalable proportional-spaced font.</p> <p>Values:</p> <p>4.00 - 999.75 (default is 12.00)</p> <p>Note</p> <p>The point size changes incrementally by .25 each time you press either the Value Up or Value Down key (labeled 3 and 7). Hold down either key to scroll quickly through the point sizes.</p>

PCL Menu Items (cont'd.)

Symbol Set	<p>Sets the default font symbol set used in PCL. The symbol set is a collection of characters available for a font, including uppercase and lowercase alphabets, punctuation marks, and special characters (such as open and close quotation marks or international characters).</p> <p>Values:</p> <table> <tr> <td>Desktop</td> <td>PC-8 Tk</td> </tr> <tr> <td>ISO L1</td> <td>PC-850</td> </tr> <tr> <td>ISO L2</td> <td>PC-852</td> </tr> <tr> <td>ISO L5</td> <td>Pi Font</td> </tr> <tr> <td>ISO-4</td> <td>PS Math</td> </tr> <tr> <td>ISO-6</td> <td>PS Text</td> </tr> <tr> <td>ISO-11</td> <td>Roman-8</td> </tr> <tr> <td>ISO-15</td> <td>Vn Int'l.</td> </tr> <tr> <td>ISO-17</td> <td>Vn Math</td> </tr> <tr> <td>ISO-21</td> <td>Win 3.0</td> </tr> <tr> <td>ISO-60</td> <td>Win L1</td> </tr> <tr> <td>ISO-69</td> <td>Win L2</td> </tr> <tr> <td>Legal</td> <td>Win L5</td> </tr> <tr> <td>Math-8</td> <td>ISO Latin Cyrillic</td> </tr> <tr> <td>Ms Publ.</td> <td>PC Cyrillic</td> </tr> <tr> <td>PC-8 (default)</td> <td></td> </tr> <tr> <td>PC-8 DN</td> <td></td> </tr> </table>	Desktop	PC-8 Tk	ISO L1	PC-850	ISO L2	PC-852	ISO L5	Pi Font	ISO-4	PS Math	ISO-6	PS Text	ISO-11	Roman-8	ISO-15	Vn Int'l.	ISO-17	Vn Math	ISO-21	Win 3.0	ISO-60	Win L1	ISO-69	Win L2	Legal	Win L5	Math-8	ISO Latin Cyrillic	Ms Publ.	PC Cyrillic	PC-8 (default)		PC-8 DN	
Desktop	PC-8 Tk																																		
ISO L1	PC-850																																		
ISO L2	PC-852																																		
ISO L5	Pi Font																																		
ISO-4	PS Math																																		
ISO-6	PS Text																																		
ISO-11	Roman-8																																		
ISO-15	Vn Int'l.																																		
ISO-17	Vn Math																																		
ISO-21	Win 3.0																																		
ISO-60	Win L1																																		
ISO-69	Win L2																																		
Legal	Win L5																																		
Math-8	ISO Latin Cyrillic																																		
Ms Publ.	PC Cyrillic																																		
PC-8 (default)																																			
PC-8 DN																																			
Orientation	<p>Sets the default orientation used in PCL.</p> <p>Values:</p> <p>Portrait (default)</p> <p>Landscape</p>																																		
Form Length	<p>Sets the default number of lines per page used in PCL. This value is linked to paper size. Whenever the paper size is changed, the Form Length is recalculated using the formula:</p> <p>Form Length = ((logical page length in inches - 1 inch)*6)</p> <p>Values:</p> <p>005 - 128 (default is 60 in USA, 64 in Europe)</p> <p>Note</p> <p>The form length changes incrementally by 1 each time you press either the Value Up or Value Down key (labeled 3 and 7). To scroll quickly through the lengths, hold down either key.</p>																																		
Line Termination	<p>Causes an additional carriage return after every Line Feed that appears in the PCL text (<LF>=<CR><LF> line termination mode).</p> <p>Values:</p> <p>Off (default)</p> <p>On</p>																																		

Parallel Menu

Sets options for the parallel port connection.

Parallel Menu Items

Menu Items	Description
Port Enable	Sets the parallel port. Values: On (default) Off
Port Timeout	Sets the time for determining when to end an incomplete print job and poll the next port in the polling sequence. This menu item also causes an implicit job end (such as Control D in PostScript or <ESC> E in PCL) and invokes the emulation functions associated with this action (e.g., formfeed, reset, etc.). Values (in seconds): 5 - 300 (default is 30) The value changes by 1 each time you press either the Value Up or Value Down key (labeled 3 and 7). Hold down either key to scroll quickly through the values.
Parallel PDL	Sets the default page description language interpreter for the parallel port. Values: Auto (default) PCL PostScript Note To submit TIFF and PDF files to the printer, this value must be Auto .
Bidirectional	Sets bi-directional communications through the parallel port. Values: On (default) Off

Password menu

Prints or deletes proof print or secure print jobs. (This menu is only available when the optional hard disk drive is installed in the printer.)

When you see **Password Menu** and press either the **Item Up** or **Item Down** key (labeled 2 and 6), you are prompted to enter the password:

```
Enter Password
xxxx
```

Using the front panel key, type the four-digit password you assigned to the print job(s). Then, press the **Item Up** or **Item Down** key (**labeled 2 or 6**) to select the job that you want to print. See *Printing Secure Print and Proof Print Jobs* on page 37.

Password Menu Items

Menu items	Description
All Jobs	Prints or deletes all jobs sent with that specific password. Values: Print (default) Delete
Filename <i>n</i>	Prints or deletes the job with that filename and that specific password. Values: Print (default) Delete

Note

If there are no jobs stored under the password that you typed, a **No Jobs** message displays.

Special Operating Modes

You can place the printer in a special operating mode, which includes the Reset menu, by turning on the printer while simultaneously holding down two keys on the front panel.

- Keys 0 and 4 — Enables access to the Reset Menu on the front panel. The Reset Menu is not normally shown, since it contains menu items that format devices and reset values to the factory default values.

To exit this mode (and remove access to the Reset Menu), turn off the printer and turn it on again.

Note

You should use the CRC (customer replaceable consumables) Reset menu item on the Reset menu only if the printer did not correctly reset the life of a newly installed CRC.

Reset Menu

Resets certain printer settings. To access this menu, you must power on the printer while holding down the **On Line** and **Enter** keys (labeled 0 and 4).

Reset Menu Items

Menu Items	Description
Factory Defaults	Resets the printer operating parameters to factory default values. (This doesn't reset the consumable counters, the installation dates, or the network settings.) Values: Yes No (default)
Network Defaults	Resets certain network parameters (including the Novell PServer Name, the TCP/IP Address, and other associated Ethernet parameters) to factory default values. Values: Yes No (default)
Delete All Jobs	Deletes all Secure Print and Proof Print jobs from the hard disk. Values: Yes No (default)

Note

This menu item appears only if the optional hard drive is installed.

Reset Menu Items (cont'd.)

Menu Items	Description
Disk Initialize	<p>Initializes the directory on the hard drive.</p> <p>Values:</p> <p>Yes No (default)</p> <p>Note</p> <p>This menu item appears only if the optional hard drive is installed.</p>
Disk Format	<p>Performs a complete format of the hard drive. This is only necessary if the hard disk was not previously formatted.</p> <p>Values:</p> <p>Yes No (default)</p> <p>Note</p> <p>This menu item appears only if the optional hard drive is installed.</p>
CRC Reset	<p>Changes the counter values back to zero for the selected Customer Replaceable Consumables (CRC).</p> <p>Values:</p> <p>Black Imaging Drum Cyan Imaging Drum Magenta Imaging Drum Yellow Imaging Drum Fuser Transfer Belt</p>

Front Panel Locks

Using CentreWare Internet Services or CentreWare DP, you can lock some of the menus on the front panel. When the front panel is locked, users can browse but not change the front panel settings on certain menus.

You can lock the following menus:

- Ethernet Menu
- Novell Menu
- Parallel Menu
- PCL Menu
- PostScript Menu
- Printer Setup Menu

You cannot lock the following menus. Users can browse and change values on these front panel menus:

- Color Adjust Menu
- Password Menu
- Print Menu
- Print Menu Map
- Printer Identification
- Reset Menu
- Supplies Info Menu
- Support Menu

Using Printer Management Software

Network Printer Services

Three print service utilities are available for the installation and management of your printer:

- CentreWare DP
- CentreWare Internet Services
- CentreWare MC

Each of these services provides you with the capability to easily and quickly accomplish the following tasks with your printer from your workstation:

- Check printer status.
- Remotely configure, monitor, and manage the printer.
- Set printer defaults.
- Perform printer maintenance diagnostics remotely.
- Upgrade the software on your printer.

CentreWare DP

CentreWare DP is network print management software designed for the network administrator. It provides a single point of administration for all Xerox desktop and network printers, including your Phaser 2135 printer. You can quickly install, connect, and configure the printer on a network. It simplifies setup procedures and the management of network printers is virtually effortless. CentreWare DP supports a number of key network environments, including NetWare and Windows NT.

For more information on the operation and use of CentreWare DP, refer to the *CentreWare DP User Guide* (on the Printer Management Software CD-ROM).

CentreWare MC

CentreWare MC enables you to find all web-enabled printers on the network. It also enables you to remotely manage and configure the printer. The web server for Xerox printers is CentreWare Internet Services.

CentreWare Internet Services

CentreWare Internet Services is an interactive service that extends the capabilities of CentreWare DP using internet technology. It provides another method for installing, configuring, and managing your printer. You can access the features in CentreWare Internet Services through Netscape Navigator, Microsoft Internet Explorer, or any other enabled web browser by using the printer's IP address as the URL. You can then monitor the status of the printer and access context-sensitive on-line assistance.

For system administrators, CentreWare Internet Services provides a faster and more productive way to install and upgrade software on the printer. It also provides a wide range of printer support information via links to Internet web sites.

Setup

To set up your printer for internet/intranet access, you need to configure an IP address for the printer on your network. For more information, refer to **IP Address Resolution** (on *page 43*) for connecting to an Ethernet network.

To use the Mail Send/Receive feature set, you must:

- Create a mail account for the printer.
- Configure the printer's MaiLinX feature to use that mail account via CentreWare Internet Services. (To launch CentreWare, enter the printer's IP Address as the URL in your browser).
- Install and configure the Xerox Mail Port Monitor on client workstations.

Note

For more information on the operation and user of CentreWare Internet Services, refer to the *CentreWare Internet Services User Guide* on the Printer Management Software CD-ROM.

Regular Printer Maintenance

Your printer is designed to need very little ongoing maintenance other than periodic cleaning of the LED bars and replacement of Customer Replaceable Consumables (CRCs):

- Toner cartridges (black, cyan, magenta and yellow)
- Imaging drums (black, cyan, magenta and yellow)
- Transfer belt
- Fuser cartridge

LED bars need to be cleaned at each toner cartridge replacement, and cleaning instructions are included with the replacement toner cartridge.

Note

To avoid unnecessary printer downtime, order extra CRC's when the "near end of life" warnings display on the front panel. You must replace the CRC when the "end of life" warning messages display. Instructions for replacing the CRCs accompany each item.

Caution

For optimum performance, keep the printer and customer replaceable consumables (CRCs) out of direct sunlight. Faded images, light areas or dark bands may result. Do not place the printer near vents or dust-producing equipment.

Cleaning the Printer

Although not necessary for printer performance, you may wish to clean the outside of the printer with a damp cloth.

Note

Power off the printer before cleaning the external surfaces at the rear of the printer.

Caution

Do not use detergents or solvents when cleaning the printer.

Adjusting Color Density and Balance

Over the life of the printer, colors may change. For example, reds may begin to take on a purple cast, or blues may take on a green cast. This happens during the normal use of a color printer and can be easily remedied by using the color adjustment procedure described in this section.

Caution

Use caution when making adjustments. Once you have made an adjustment, you cannot undo the changes. You can return the values to the factory defaults.

Note

Perform this procedure monthly to help correct any color shifts.

This front panel procedure involves printing a test page and adjusting the densities and colors based on the appearance of the test page. You may need to repeat this procedure and test your adjustments until you achieve the desired effect.

Note

At any time, you can reset the printer to the factory defaults by selecting **Color Defaults** from the Color Adjust Menu.

Refer to the *Front Panel Menus* section on page 40 for more information about the front panel.

Printing a Test Page

1. Press **Menu Up** or **Menu Down** until you see:

```
Menus
Color Adjust Menu
```

2. Press **Item Up** or **Item Down**.

You will see:

```
Color Adjust Menu
Print Color Balance Page
```

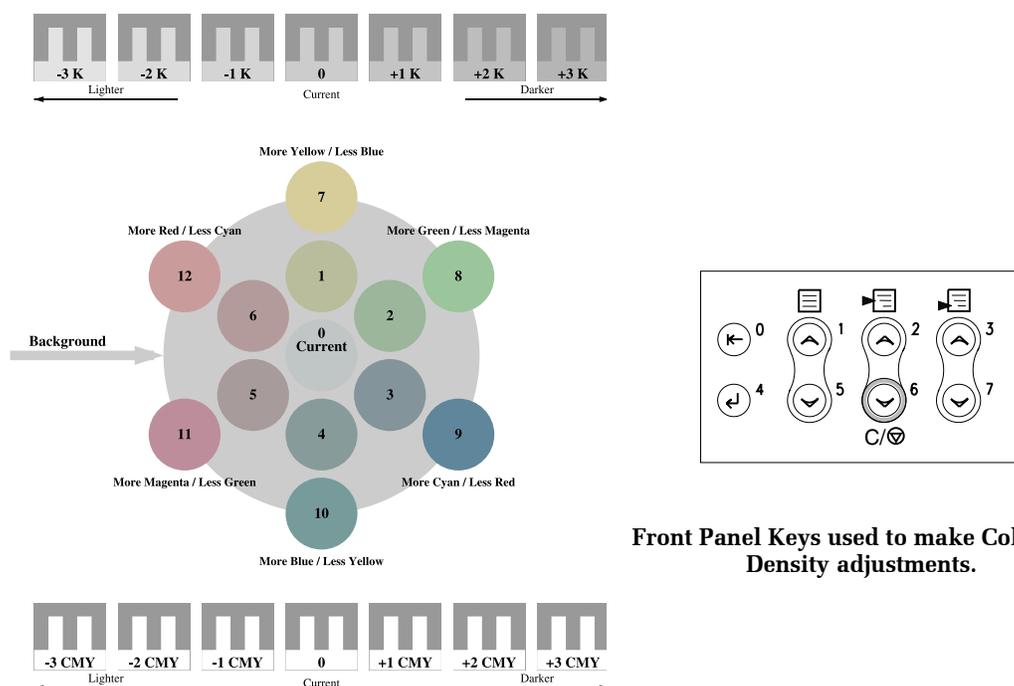
3. Press **Enter**.

The printer prints the Color Balance test page.

Interpreting the Test Print

The Color Balance test print contains numbered images that indicate possible adjustments that can be made. You can choose to make an adjustment to the Black Density, the Color Balance, or the Color Density.

- The Black Density Images, numbered -3K...0...+3K, show a lightness/darkness range using black only.
- The Color Balance Images, numbered 0,1,2,...12, show variations of three-color gray. Each of these circles contains gray with tints of other colors.
- The Color Density Images, numbered -3CMY...0...+3CMY, show a lightness/darkness range using three colors (cyan, magenta, yellow).



Front Panel Keys used to make Color and Density adjustments.

Color and Density Adjustment Test Page Graphics

Making Adjustments

Use the following procedures to make adjustments to the color density and balance:

Black Density Adjustment

1. Identify the square where the bar and background patterns blend together. If this square is the Current (0) square, no adjustment is needed. Continue to *Color Balance Adjustment*.

2. Press **Item Up** or **Item Down** (labeled 2 and 6) until you see:

```
Color Adjust Menu
Black Density
```

3. Press **Value Up** or **Value Down** (labeled 3 and 7) until the **Value** is equal to the number of the square identified in step 1.

```
Black Density =
New Value
```

4. Press **Enter** (labeled 4). The Color Adjust Page prints showing you the changes that resulted from the previous steps and the front panel displays:

```
Color Adjust Menu
Black Density
```

5. Repeat Steps 3 and 4 above until the bar and background patterns in the Current (0) square blend together.

Color Balance Adjustment

1. Identify the numbered circle that most closely matches the gray of the background. If this square is the Current (0) square, no adjustment is needed. Continue to *Color Density Adjustment*.
2. Press **Item Up** or **Item Down** (labeled 2 and 6) until you see:

```
Color Adjust
Color Balance
```

3. Press **Value Up** or **Value Down** (labeled 3 and 7) until you see the number of the circle that you identified in step 1.

```
Color Balance =
New Value
```

4. Press **Enter** (labeled 4). The Color Adjust Page prints showing you the changes that resulted from the previous steps and the front panel displays:

```
Color Adjust Menu
Color Density
```

5. Repeat Steps 3 and 4 above until the bar and background patterns in the Current (0) square blend together.

Color Density Adjustment

1. Identify the square where the bar and background patterns blend together. If this square is the Current (0) square, no adjustment is needed. Continue to *Exiting the Menu*.
2. Press **Item Up** or **Item Down** (labeled 2 and 6) until you see:

```
Color Adjust Menu
Color Density
```

3. Press **Value Up** or **Value Down** (labeled 3 and 7) until the **Value** is equal to the number of the square identified in step 1:

```
Color Density =
New Value
```

4. Press **Enter** (labeled 4). The Color Adjust Page prints showing you the changes that resulted from the previous steps and the front panel displays:

```
Color Adjust Menu
Color Density
```

5. Repeat Steps 3 and 4 above until the bar and background patterns in the Current (0) square blend together.

Adjustment Recovery

While in the color adjustment routine you can choose to return the values to the factory default values by using the Color Adjust menu's Color Defaults item.

The printer will be restored to the factory default values.

Exiting the Menu

Using the item keys (labeled 2 and 6), scroll to "Exit and Accept Changes", use the **Value** Keys (labeled 3 and 7) to scroll to Yes. If you press the On-line Key or a Menu key (labeled 1 or 5), while you are in the **Color Adjust menu**, you automatically go to this Menu item. You must then use the **Value** keys (labeled 3 and 7) to scroll to "Yes" and press the **Enter** (labeled 4) key to save and exit.

Note

Once you have made an adjustment, you cannot undo the changes. You can return the values to the factory defaults.

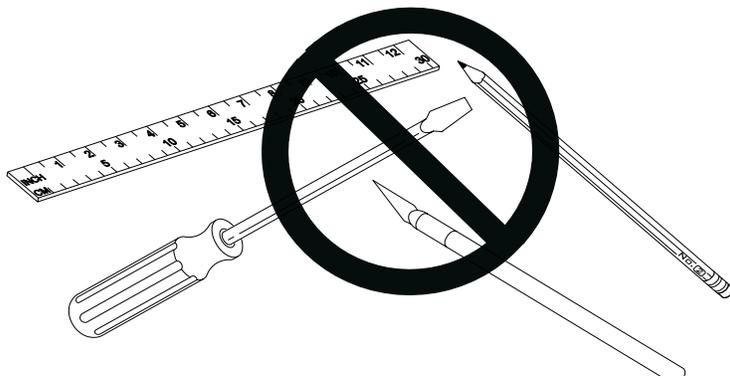
Troubleshooting

Before You Begin Troubleshooting

If it becomes necessary for you to take corrective actions, note the following safety tips and then begin your troubleshooting by checking for possible hardware, software, and printer maintenance issues.

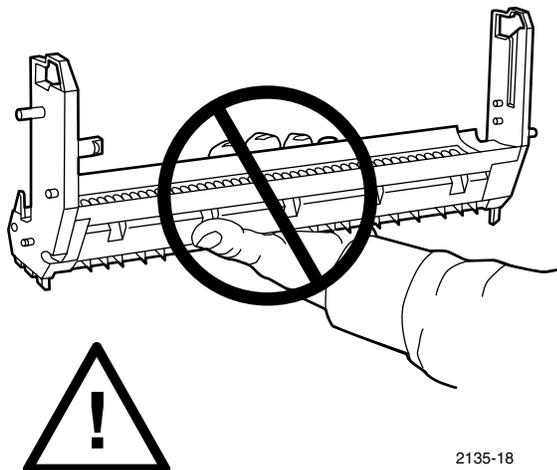
Caution

Do not use tools or sharp objects to clear paper jams since this may damage the printer



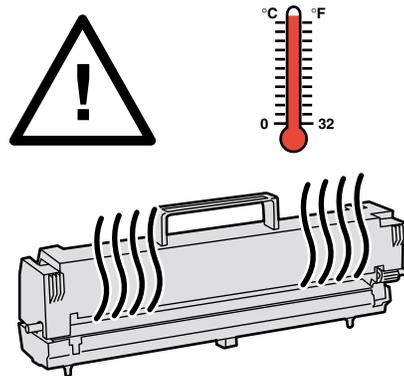
Caution

Do not touch the bottom surface of the imaging drum. Touching these surfaces may damage them.



Caution

Avoid contact with the printer's fuser rollers, which may be hot.



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Also, be sure to observe the safety guidelines and recommendations provided in the *User safety summary*.

If your printer is not operating properly, make sure that the following hardware and software issues have been considered.

Hardware

- Is the printer plugged in?
- Is the printer switched on?
- Is the printer on-line?
- Does the printer have proper clearance? For further information, refer to the *User safety summary*.
- Is the printer operating within the specified environmental conditions (i.e., temperature and humidity)? For further information, refer to the *User safety summary*.
- Is the printer connected to a computer or network?

Software

- Is the correct printer driver installed on the workstation?
- Is your driver properly configured for the destination printer? For further information, refer to *Printing Options* on page 16.

Printer Maintenance

An improperly seated tray or an open cover will prevent printing. You can avoid these problems by regularly taking the following precautions.

- Insert media trays properly and securely.
- Keep covers securely closed.

Customer Replaceable Consumables (CRCs)

Expendable consumables (toner cartridges, imaging drums, fuser, transfer belt) will prevent printing.

- Maintain a supply of consumables (especially toner cartridges).
- Replace consumables when prompted by the printer

Note

Specific instructions for replacing each consumable are included with the individual replacement packages.

Front Panel Messages

Your printer displays messages on the front panel when operator intervention is required. The two-line display of the front panel provides information about the condition of the printer and the suggested or required course of action.

There are two types of messages that require action:

- **Fault** messages appear when the printer stops due to a malfunction, such as a paper jam. Action must be taken to resolve the fault.
- **Attention** messages do not stop the printer, but warn of action that should be taken to avert a shutdown.

The following table lists fault and attention messages in alphabetical order, along with an explanation and corrective action.

Front Panel Messages

Message	Type	Explanation/Corrective Action
Check Tray [Check Tray 1] [Check Tray 2] [Check Tray 3] [Check Tray 4] [Check Tray 5] No Tray Present	Fault	The specified tray is not installed. Make sure the tray is fully inserted.
Control Panel Error U15 Power Off/On	Fault	An error has been detected with the front panel interface and communication path. Turn off the printer, wait 15 seconds, then turn on the printer. If the problem persists, check the support links at: www.xerox.com/officeprinting/infoSMART .
Engine PU Fan Error U8 Power Off/On	Fault	An error has been detected with a cooling fan. Turn off the printer, wait 15 seconds, then turn on the printer. If the problem persists, check the support links at: www.xerox.com/officeprinting/infoSMART .

Front Panel Messages (cont'd.)

Disk Read [Write] Error Press Enter To Clear	Attention	There was a hard disk read error that prevented the data from being read. Press the Enter button to clear the message. Turn off the printer, wait 15 seconds, then turn on the printer. If the problem persists, check the support links at: www.xerox.com/officeprinting/infoSMART.
Drum Error [Black Drum Error U29] [Cyan Drum Error U28] [Magenta Drum Error U27] [Yellow Drum Error U26] Reseat Drum	Fault	The imaging drum is either missing or must be reseated to be recognized by the printer. Turn off the printer, make sure the imaging drum is properly installed, then turn on the printer. If the problem persists, replace the corresponding imaging drum. If you need more help, check the support links at: www.xerox.com/officeprinting/infoSMART.
Imaging Drum Missing [Black Imaging Drum Missing] [Cyan Imaging Drum Missing] [Magenta Imaging Drum Missing] [Yellow Imaging Drum Missing] Reseat Drum	Fault	The imaging drum is either missing or must be reseated to be recognized by the printer. Turn off the printer, make sure the imaging drum is properly installed, then turn on the printer. If the problem persists, install a new imaging drum. For further assistance, visit the support links at: www.xerox.com/officeprinting/infoSMART.
Drum [Black Drum] [Cyan Drum] [Magenta Drum] [Yellow Drum] Near End Of Life	Attention	The imaging drum is near its end of life. Printing can continue until the printer determines that the imaging drum is at its end of life, however some degradation of image quality may occur. The message will remain until interrupted by other messages or until the imaging drum is replaced.
Duplex I/F Error U12 Power Off/On	Fault	An error has been detected with the duplex module interface and communication path. Turn off the printer, wait 15 seconds, then turn on the printer. If the problem persists, be sure the duplex unit is properly installed. If you need more help, check the support links at: www.xerox.com/officeprinting/infoSMART.
Engine Control Error U5 Power Off/On	Fault	During the printer's self-diagnostics there was a problem with the internal control logic. Turn off the printer, wait 15 seconds, then turn on the printer. If the problem persists, check the support links at: www.xerox.com/officeprinting/infoSMART.
Engine EPROM Error U2 Power Off/On	Fault	During the printer's self-diagnostics there was a problem reading the engine EPROM. Turn off the printer, wait 15 seconds, then turn on the printer. If the problem persists, check the support links at: www.xerox.com/officeprinting/infoSMART.

Front Panel Messages (cont'd.)

Engine EPROM Missing U3 Power Off/On	Fault	During the printer's self-diagnostics there was a problem detecting the engine EPROM. Turn off the printer, wait 15 seconds, then turn on the printer. If the problem persists, check the support links at: www.xerox.com/officeprinting/infoSMART .
Engine RAM Error U1 Power Off/On	Fault	During the printer's self-diagnostics there was a problem reading the engine RAM. Turn off the printer, wait 15 seconds, then turn on the printer. If the problem persists, check the support links at: www.xerox.com/officeprinting/infoSMART .
Engine ROM Error U0 Power Off/On	Fault	During the printer's self-diagnostics there was a problem reading the engine ROM. Turn off the printer, wait 15 seconds, then turn on the printer. If the problem persists, check the support links at: www.xerox.com/officeprinting/infoSMART .
Engine SRAM Error U4 Power Off/On	Fault	During the printer's self-diagnostics there was a problem reading the engine SRAM. Turn off the printer, wait 15 seconds, then turn on the printer. If the problem persists, check the support links at: www.xerox.com/officeprinting/infoSMART .
Feeder Home Error U7 Power Off/On	Fault	An error has been detected with the home position of the front paper feeder. Turn off the printer, wait 15 seconds, then turn on the printer. If the problem persists, check the support links at: www.xerox.com/officeprinting/infoSMART .
Fuser Lower Error T2 Power Off/On	Fault	An error in the lower fuser Thermistor was discovered. Turn off the printer, wait 15 seconds, then turn on the printer. If the problem persists, install a new fuser. For further assistance, visit the support links at: www.xerox.com/officeprinting/infoSMART .
Fuser Missing Reseat Fuser	Fault	The fuser is either missing or must be reseated to be recognized by the printer. Turn off the printer, make sure the fuser is properly installed, and turn on the printer. If the problem persists, install a new fuser. For further assistance, visit the support links at: www.xerox.com/officeprinting/infoSMART .

Front Panel Messages (cont'd.)

Fuser Upper Error T1 Power Off/On	Fault	An error in the upper fuser Thermistor was discovered. Verify that the clearances around the printer are consistent with the recommendations in the <i>User safety summary</i> . Turn off the printer, wait 15 seconds, then turn on the printer. Be sure you have the proper voltage fuser installed. A 220 volt fuser in a 110 volt printer will cause this fault. If the problem persists, install a new fuser. For further assistance, visit the support links at: www.xerox.com/officeprinting/infoSMART .
Fuser Near End Of Life	Attention	The fuser is near its end of life. Printing can continue until the printer determines that the fuser is at its end of life, however, some degradation of image quality may occur. The message will remain until interrupted by other messages or until the fuser is replaced.
Hard Disk Formatting Please Wait	Attention	The hard disk is being formatted. Data cannot be written to the disk until the formatting is completed.
Hard Disk Full Press Enter To Clear	Attention	There was a hard disk full error that prevented the data from being written. Press the Enter button to clear the message. Print or delete Secure Print and Proof Print jobs to free up disk space.
Hard Disk Initializing Please Wait	Attention	The hard disk is being initialized. Data cannot be written to the disk until the initializing is completed.
Jam Inside Top Cover Open Cover, See Labels	Fault	Paper did not exit the printer or fuser properly, causing a paper jam. Open the Top Cover and refer to the labels on the printer to clear the jam. For more information, see the sections <i>Front Panel Messages</i> on page 78.
Jam Inside Top Cover Open Cover, See Labels	Fault	Paper did not enter the transport area correctly, causing a paper jam. Open Cover A and refer to the labels on the printer to clear the jam. For more information, see the sections <i>Front Panel Messages</i> on page 78.
Jam Inside Top Cover Open Cover, See Labels	Fault	Paper did not exit the paper feed area correctly, causing a paper jam. Open the Top Cover and refer to the labels on the printer to clear the jam. For more information, see the sections <i>Front Panel Messages</i> on page 78.
Jam Inside Top Cover Open Cover, See Labels	Fault	Paper did not exit the Multi-Sheet Bypass Feeder properly, causing a paper jam. Open Top Cover and refer to the labels on the printer to clear the jam. For more information, see the sections <i>Front Panel Messages</i> on page 78.

Front Panel Messages (cont'd.)

Jam Inside Top Cover Open Cover, See Labels	Fault	Paper did not enter the duplex module properly, causing a paper jam. Open the duplex unit and refer to the labels on the printer to clear the jam. For more information, see the sections <i>Front Panel Messages</i> on page 78.
Jam Inside Duplex Unit Open Unit, See Labels	Fault	Paper did not exit the duplex module correctly, causing a paper jam. Open right door A and refer to the labels on the printer to clear the jam. For more information, see the sections <i>Front Panel Messages</i> on page 78.
Jam Inside Right Door A Open Right Door A, See Labels	Fault	Paper did not exit the transport area correctly, causing a paper jam. Open right door A and refer to the labels on the printer to clear the jam. For more information, see the sections <i>Front Panel Messages</i> on page 78.
Jam Inside Duplex Unit Open Unit, See Labels	Fault	Paper did not enter the duplex module properly, causing a paper jam. Open right door A and refer to the labels on the printer to clear the jam. For more information, see the sections <i>Front Panel Messages</i> on page 78.
LED Error [Black LED Error U21] [Cyan LED Error U20] [Magenta LED Error U19] [Yellow LED Error U18] Power Off/On	Fault	The LED bar is not recognized by the printer. Turn off the printer, wait 15 seconds, then turn on the printer. If the problem persists, check the support links at: www.xerox.com/officeprinting/infoSMART .
LED Over Temperature T32 Power Off/On	Fault	One of the LED bars is reporting a temperature error. Verify that the clearances around the printer are consistent with the recommendations in the <i>User safety summary</i> . Turn off the printer, wait 15 seconds, then turn on the printer. If the problem persists, check the support links at: www.xerox.com/officeprinting/infoSMART .
Load <i>Size, Type</i> , Tray #	Fault	The specified paper size and type requested by the print job is not available in the specified tray. Load the specified paper or press Enter to print using the paper loaded in the tray.
Power Supply Error U6 Power Off/On	Fault	During the printer's self-diagnostics it was detected that the power supply voltage is out of specification. Turn off the printer, wait 15 seconds, then turn on the printer. If the problem persists, check the support links at: www.xerox.com/officeprinting/infoSMART .

Front Panel Messages (cont'd.)

<p>Replace Drum [Replace Black Drum] [Replace Cyan Drum] [Replace Magenta Drum] [Replace Yellow Drum]</p>	Fault	The imaging drum has reached its end of life. Install a new imaging drum.
<p>Replace Fuser</p>	Fault	The fuser has reached its end of life. Install a new fuser.
<p>Replace Transfer Belt</p>	Fault	The transfer belt has reached its end of life. Install a new transfer belt.
<p>RH Sensor Error T30 Power Off/On</p>	Fault	The relative humidity sensor is either not communicating or reporting invalid data. Turn off the printer, wait 15 seconds, then turn on the printer. If the problem persists, check the support links at: www.xerox.com/officeprinting/infoSMART .
<p>Roller Over Temp T31 Power Off/On</p>	Fault	The fuser temperature sensor is reporting a temperature error. Turn off the printer, wait 15 seconds, then turn on the printer. If the problem persists, install a new fuser. For further assistance, visit the support links at: www.xerox.com/officeprinting/infoSMART .
<p>Roller Position Error U10 Power Off/On</p>	Fault	An error has been detected with the fuser error rollers being in an incorrect position. Turn off the printer. Pull the green roller release lever, located on the left side of the printer, forward and then push backward to return the lever to its home position. Then turn on the printer. If the problem persists, check the support links at: www.xerox.com/officeprinting/infoSMART .
<p>Toner Missing [Black Toner Missing U25] [Cyan Toner Missing U24] [Magenta Toner Missing U23] [Yellow Toner Missing U22] Reseat Toner</p>	Fault	The toner is either missing or must be reseated to be recognized by the printer. Turn off the printer, wait 15 seconds, then turn on the printer. If the problem persists, check the support links at: www.xerox.com/officeprinting/infoSMART .

Front Panel Messages (cont'd.)

Supply Fan Error U9 Power Off/On	Fault	An error has been detected with the power supply cooling fan. Turn off the printer, wait 15 seconds, then turn on the printer. If the problem persists, check the support links at: www.xerox.com/officeprinting/infoSMART .
Temp Sensor Error T29 Power Off/On	Fault	The temperature sensor is either not communicating or reporting invalid data. Turn off the printer, wait 15 seconds, then turn on the printer. If the problem persists, check the support links at: www.xerox.com/officeprinting/infoSMART .
Toner Empty [Black Toner Empty] [Cyan Toner Empty] [Magenta Toner Empty] [Yellow Toner Empty] Replace Toner	Fault	The toner cartridge has reached its end of life. Install a new toner cartridge.
Toner Low [Black Toner Low] [Cyan Toner Low] [Magenta Toner Low] [Yellow Toner Low]	Attention	The level of toner in the toner cartridge is low, and should be replaced soon, as it is near its end of life. Printing can continue until the toner cartridge is empty; however, some degradation of image quality may occur. The message will remain until interrupted by other messages or until the toner cartridge is replaced.
Top Cover Open Close Top Cover	Fault	The Top Cover is open. Close the cover so that printing can continue.
Top Output Tray Full Remove Outputs	Fault	The top (face down) tray is full, and cannot accept any more prints until it is emptied. Once emptied, printing will continue where it left off.
Transfer Belt Missing Reseat Belt	Fault	The transfer belt is either missing or must be reseated to be recognized by the printer. Turn off the printer, make sure the transfer belt is properly installed, and turn on the printer. If the problem persists, install a new transfer belt. For further assistance, visit the support links at: www.xerox.com/officeprinting/infoSMART .

Front Panel Messages (cont'd.)

Transfer Belt Near End Of Life	Attention	The transfer belt is near its end of life. Printing can continue until the printer determines that the transfer belt is at its end of life; however, some degradation of image quality may occur. The message will remain until interrupted by other messages or until the transfer belt is replaced.
Tray I/F Error [Tray 2 I/F Error U14] [Tray 3 I/F Error U13] [Tray 4 I/F Error U13] [Tray 5 I/F Error U13] Power Off/On	Fault	An error has been detected with the indicated tray's interface and communication path. Turn off the printer, wait 15 seconds, then turn on the printer. If the problem persists, check the support links at: www.xerox.com/officeprinting/infoSMART .
Tray Misfeed [Tray 1 Misfeed] [Tray 2 Misfeed] [Tray 3 Misfeed] [Tray 4 Misfeed] [Tray 5 Misfeed] Open Rt Door x & Tray x	Fault	Paper did not exit the indicated tray properly, causing a paper jam. Pull out the tray, retrieve and discard the misfed paper and reinsert the tray. Open Cover B to search for additional paper. You must open Cover B to clear the misfeed message on the front panel.
Tray Paper Low [Tray 1 Paper Low] [Tray 2 Paper Low] [Tray 3 Paper Low] [Tray 4 Paper Low] [Tray 5 Paper Low]	Attention	The printer has detected that the paper level in the indicated tray is low. Printing can continue until the tray runs out of paper. Reload the tray as soon as possible to avoid printing interruptions.

Printer Management Status Messages

Your printer management software displays alert messages on your workstation when operator intervention is required at the printer. The message provides information about the condition of the printer and the suggested or required course of action. (Similar messages are displayed on the printer's front panel, as described in the section *Front Panel Messages* on page 78.)

There are two types of messages that require action:

- **Fault** messages appear when the printer stops due to a malfunction, such as a paper jam. Action must be taken to resolve the fault.
- **Attention** messages do not stop the printer, but warn of action that should be taken to avert a shutdown.

The following table lists fault and attention messages in alphabetical order, along with an explanation and corrective action.

Printer Management Status Messages

Message	Type	Explanation/Corrective Action
A6-Jam Inside Top Cover	Fault	Paper did not exit the Multi-Sheet Bypass Feeder properly, causing a paper jam. Open the Top Cover and refer to the labels on the printer to clear the jam.
A7-Jam Inside Top Cover	Fault	Paper did not exit the Multi-Sheet Bypass Feeder properly, causing a paper jam. Open the Top Cover and refer to the labels on the printer to clear the jam.
A8-Jam Inside Duplex Unit	Fault	Paper did not enter the duplex module properly, causing a paper jam. Open the Duplex Unit and refer to the labels on the printer to clear the jam.
A10-Jam Inside Top Cover	Fault	Paper did not exit the printer or fuser properly, causing a paper jam. Open the Top Cover and refer to the labels on the printer to clear the jam.
A11-Jam Inside Top Cover	Fault	Paper did not exit the printer or fuser properly, causing a paper jam. Open the Top Cover and refer to the labels on the printer to clear the jam.
A22-Jam Inside Top Cover	Fault	Paper did not exit the printer or fuser properly, causing a paper jam. Open the Top Cover and refer to the labels on the printer to clear the jam.
B8-Jam Inside Duplex Unit	Fault	Paper did not enter the duplex module properly, causing a paper jam. Open Cover B and refer to the labels on the printer to clear the jam.
B13-Jam Inside Duplex Unit	Fault	Paper did not exit the duplex module correctly, causing a paper jam. Open the Duplex Unit and refer to the labels on the printer to clear the jam.

Printer Management Status Messages (cont'd.)

B21-Jam Inside Door A	Fault	Paper did not exit the transport area correctly, causing a paper jam. Open Door A and refer to the labels on the printer to clear the jam.
Cn-Close Tray [C1-Close Tray 1] [C2-Close Tray 2] [C3-Close Tray 3] [C4-Close Tray 4] [C5-Close Tray 5]	Fault	The tray is not installed. Make sure the tray is fully inserted.
En-Tray Misfeed [E1-Open Rt Door A & Tray 1] [E2-Open Rt Door B & Tray 2] [E3-Open Rt Door C & Tray 3] [E4-Open Rt Door D & Tray 4] [E5-Open Rt Door E & Tray 5]	Fault	Paper did not exit the tray properly, causing a paper jam. Open the right door, pull out the tray, retrieve and discard the misfed paper, close the right door and reinsert the tray.
E9-Top Cover Open	Fault	The top cover is open. Close the cover so that printing can continue.
E12-Top Output Tray Full	Fault	The top (face-down) tray is full, and cannot accept any more prints until it is emptied. Once emptied, printing will continue where it left off.
E14-Close Duplex Unit	Fault	The duplex unit is open. Close the duplex unit so that printing can continue.
En-Right Door Open [E18-Right Door A Open] [E20-Right Door B Open] [E21-Right Door C Open] [E22-Right Door D Open] [E23-Right Door E Open]	Fault	The right door is open. Close the right door so that printing can continue.
E19-Open Side Output Tray	Fault	The paper that you have loaded requires that the side output tray be open (for example cardstock, envelopes, etc.) or you have selected side output tray in the driver.
Ea-Imaging Drum Missing [EA-Black Imaging Drum] [EB-Cyan Imaging Drum] [EC-Magenta Imaging Drum] [ED-Yellow Imaging Drum]	Fault	The imaging drum is either missing or must be resealed to be recognized by the printer. Turn off the printer, make sure the imaging drum is properly installed, and turn on the printer. If the problem persists, install a new imaging drum. For further assistance, check the support links at: www.xerox.com/officeprinting/infoSMART .

Printer Management Status Messages (cont'd.)

EE-Transfer Belt Missing	Fault	The transfer belt is either missing or must be reseated to be recognized by the printer. Turn off the printer, make sure the transfer belt is properly installed, and turn on the printer. If the problem persists, check the support links at: www.xerox.com/officeprinting/infoSMART .
EF-Fuser Missing	Fault	The fuser is either missing or must be reseated to be recognized by the printer. Turn off the printer, make sure the fuser is properly installed, and turn on the printer. If the problem persists, install a new fuser. For further assistance, visit the support links at: www.xerox.com/officeprinting/infoSMART .
H1-Disk Read Error	Attention	There was a hard disk read error that prevented the data from being read. Press the Enter button to clear the message. Turn off the printer, wait 15 seconds, then turn on the printer. If the problem persists, visit the support links at: www.xerox.com/officeprinting/infoSMART .
H2-Disk Write Error	Attention	There was a hard disk write error that prevented the data from being written. Press the Enter button to clear the message. Turn off the printer, wait 15 seconds, then turn on the printer. If the problem persists, visit the support links at: www.xerox.com/officeprinting/infoSMART .
H3-Hard Disk Full	Attention	There was a hard disk full error that prevented the data from being written. Press the Enter button to clear the message. Print or delete Secure Print and Proof Print jobs to free-up disk space.
H4-Hard Disk Formatting	Attention	The hard disk is being formatted. Data cannot be written to the disk until the formatting is completed.
H5-Hard Disk Initializing	Attention	The hard disk is being initialized. Data cannot be written to the disk until the initializing is completed.
J3-Replace Fuser	Fault	The fuser has reached its end of life. Install a new fuser.
J4-Replace Transfer Belt	Fault	The transfer belt has reached its end of life. Install a new transfer belt.
Jn-Replace Imaging Drum [J5-Replace Yellow Drum] [J6-Replace Magenta Drum] [J7-Replace Cyan Drum] [J8-Replace Black Drum]	Fault	The imaging drum has reached its end of life. Install a new imaging drum.

Printer Management Status Messages (cont'd.)

Jn-Toner Empty [J9-Yellow Toner Empty] [J10-Magenta Toner Empty] [J11-Cyan Toner Empty] [J12-Black Toner Empty]	Fault	The toner cartridge has reached its end of life. Install a new toner cartridge.
Load Size, Type, Tray #	Fault	The specified paper size and type requested by the print job is not available in the specified tray. Load the specified paper or press Enter to print from the tray regardless of what paper size and type is loaded.
T1-Fuser Upper Error	Fault	An error in the upper fuser Thermistor was discovered. Verify that the clearances around the printer are consistent with the recommendations in the <i>User safety summary</i> . Turn off the printer, wait 15 seconds, then turn on the printer. If the problem persists, install a new fuser. For further assistance, visit the support links at: www.xerox.com/officeprinting/infoSMART .
T2-Fuser Lower Error	Fault	An error in the lower fuser Thermistor was discovered. Turn off the printer, wait 15 seconds, then turn on the printer. If the problem persists, install a new fuser. For further assistance, visit the support links at: www.xerox.com/officeprinting/infoSMART .
T29-Temp Sensor Error	Fault	The temperature sensor is either not communicating or reporting invalid data. To reset the sensor, open and close the Top Cover. If the problem persists, check the support links at: www.xerox.com/officeprinting/infoSMART .
T30-RH Sensor Error	Fault	The relative humidity sensor is either not communicating or reporting invalid data. Turn off the printer, wait 15 seconds, then turn on the printer. If the problem persists, check the support links at: www.xerox.com/officeprinting/infoSMART .
T31-Roller Over Temp	Fault	The fuser temperature sensor is reporting a temperature error. Turn off the printer, wait 15 seconds, then turn on the printer. If the problem persists, install a new fuser. For further assistance, visit the support links at: www.xerox.com/officeprinting/infoSMART .
T32-LED Over Temperature	Fault	One of the LED bars is reporting a temperature error. Turn off the printer, wait 15 seconds, then turn on the printer. If the problem persists, check the support links at: www.xerox.com/officeprinting/infoSMART .

Printer Management Status Messages (cont'd.)

U0-Engine ROM Error	Fault	During the printer's self-diagnostics there was a problem reading the engine ROM. Turn off the printer, wait 15 seconds, then turn on the printer. If the problem persists, check the support links at: www.xerox.com/officeprinting/infoSMART .
U1-Engine RAM Error	Fault	During the printer's self-diagnostics there was a problem reading the engine RAM. Turn off the printer, wait 15 seconds, then turn on the printer. If the problem persists, check the support links at: www.xerox.com/officeprinting/infoSMART .
U2-Engine EPROM Error	Fault	During the printer's self-diagnostics there was a problem reading the engine EPROM. Turn off the printer, wait 15 seconds, then turn on the printer. If the problem persists, check the support links at: www.xerox.com/officeprinting/infoSMART .
U3-Engine EPROM Missing	Fault	During the printer's self-diagnostics there was a problem detecting the engine EPROM. Turn off the printer, wait 15 seconds, then turn on the printer. If the problem persists, check the support links at: www.xerox.com/officeprinting/infoSMART .
U4-Engine SRAM Error	Fault	During the printer's self-diagnostics there was a problem reading the engine SRAM. Turn off the printer, wait 15 seconds, then turn on the printer. If the problem persists, check the support links at: www.xerox.com/officeprinting/infoSMART .
U5-Engine Control Error	Fault	During the printer's self-diagnostics there was a problem with the internal control logic. Turn off the printer, wait 15 seconds, then turn on the printer. If the problem persists, check the support links at: www.xerox.com/officeprinting/infoSMART .
U6-Power Supply Error	Fault	During the printer's self-diagnostics it was detected that the power supply voltage is irregularly high. Turn off the printer, wait 15 seconds, then turn on the printer. If the problem persists, check the support links at: www.xerox.com/officeprinting/infoSMART .
U7-Feeder Home Error	Fault	An error has been detected with the home position of the front paper feeder. Turn off the printer, wait 15 seconds, then turn on the printer. If the problem persists, check the support links at: www.xerox.com/officeprinting/infoSMART .

Printer Management Status Messages (cont'd.)

U8- Engine PU Fan Error	Fault	An error has been detected with a cooling fan. Turn off the printer, wait 15 seconds, then turn on the printer. If the problem persists, check the support links at: www.xerox.com/officeprinting/infoSMART .
U9-Supply Fan Error	Fault	An error has been detected with the power supply cooling fan. Turn off the printer, wait 15 seconds, then turn on the printer. If the problem persists, check the support links at: www.xerox.com/officeprinting/infoSMART .
U12-Duplex I/F Error	Fault	An error has been detected with the duplex module interface and communication path. Make sure the Auto Duplex Unit is properly installed. If the problem persists, check the support links at: www.xerox.com/officeprinting/infoSMART .
U13-Tray 3 I/F Error	Fault	An error has been detected with the Tray 3 interface and communication path. Turn off the printer, wait 15 seconds, then turn on the printer. If the problem persists, check the support links at: www.xerox.com/officeprinting/infoSMART .
U14-Tray 2 I/F Error	Fault	An error has been detected with the Tray 2 interface and communication path. Turn off the printer, wait 15 seconds, then turn on the printer. If the problem persists, check the support links at: www.xerox.com/officeprinting/infoSMART .
U15-Control Panel Error	Fault	An error has been detected with the front panel interface and communication path. Turn off the printer, wait 15 seconds, then turn on the printer. If the problem persists, check the support links at: www.xerox.com/officeprinting/infoSMART .
U16-Tray 4 I/F Error	Fault	An error has been detected with the Tray 4 interface and communication path. Turn off the printer, wait 15 seconds, then turn on the printer. If the problem persists, check the support links at: www.xerox.com/officeprinting/infoSMART .
U17-Tray 5 I/F Error		An error has been detected with the Tray 5 interface and communication path. Turn off the printer, wait 15 seconds, then turn on the printer. If the problem persists, check the support links at: www.xerox.com/officeprinting/infoSMART .

Printer Management Status Messages (cont'd.)

Un-LED Error [U18-Yellow LED Bar Missing] [U19-Magenta LED Bar Missing] [U20-Cyan LED Bar Missing] [U21-Black LED Bar Missing]	Fault	The LED bar is not recognized by the printer. Turn off the printer, wait 15 seconds, then turn on the printer. If the problem persists, check the support links at: www.xerox.com/officeprinting/infoSMART .
Un-Toner Missing [U22-Yellow Toner Missing] [U23-Magenta Toner Missing] [U24-Cyan Toner Missing] [U25-Black Toner Missing] Reseat Toner	Fault	The toner is either missing or must be reseated to be recognized by the printer. Turn off the printer, wait 15 seconds, then turn on the printer. If the problem persists, check the support links at: www.xerox.com/officeprinting/infoSMART .
Un-Drum Error [U26-Yellow Drum Error] [U27-Magenta Drum Error] [U28-Cyan Drum Error] [U29-Black Drum Error]	Fault	The imaging drum is either missing or must be reseated to be recognized by the printer. Turn off the printer, make sure the imaging drum is properly installed, and turn on the printer. If the problem persists, install a new imaging drum. For further assistance, visit the support links at: www.xerox.com/officeprinting/infoSMART .
Wn-Toner Low [W1-Yellow Toner Low] [W2-Magenta Toner Low] [W3-Cyan Toner Low] [W4-Black Toner Low]	Attention	The toner is low and should be replaced soon. Printing can continue until the printer determines that the toner is at its end of life; however, some degradation of image quality may occur. The message will remain until interrupted by other messages or until the toner is replaced
W5-Transfer Belt Near End Of Life	Attention	The transfer belt is near its end of life. Printing can continue until the printer determines that the transfer belt is at its end of life; however, some degradation of image quality may occur. The message will remain until interrupted by other messages or until the transfer belt is replaced.
W6-Fuser Near End Of Life	Attention	The fuser is near its end of life. Printing can continue until the printer determines that the fuser is at its end of life, however some degradation of image quality may occur. The message will remain until interrupted by other messages or until the fuser is replaced.
Wn-Drum [W7-Yellow Drum] [W8-Magenta Drum] [W9-Cyan Drum] [W10-Black Drum] Near End Of Life	Attention	The imaging drum is near its end of life. Printing can continue until the printer determines that the imaging drum is at its end of life, however some degradation of image quality may occur. The message will remain until interrupted by other messages or until the imaging drum is replaced.
W11-Tray 1 Paper Low	Attention	The printer has detected that the paper level in Tray 1 is low. Printing can continue until the tray runs out of paper. Reload the tray as soon as possible to avoid printing interruptions.
W12-Tray 2 Paper Low	Attention	The printer has detected that the paper level in Tray 2 is low. Printing can continue until the tray runs out of paper. Reload the tray as soon as possible to avoid printing interruptions.

Printer Management Status Messages (cont'd.)

W13-Tray 3 Paper Low	Attention	The printer has detected that the paper level in Tray 3 is low. Printing can continue until the tray runs out of paper. Reload the tray as soon as possible to avoid printing interruptions.
W14-Tray 4 Paper Low	Attention	The printer has detected that the paper level in Tray 4 is low. Printing can continue until the tray runs out of paper. Reload the tray as soon as possible to avoid printing interruptions.
W15-Tray 5 Paper Low	Attention	The printer has detected that the paper level in Tray 5 is low. Printing can continue until the tray runs out of paper. Reload the tray as soon as possible to avoid printing interruptions.
W16-Fuse Cut Error	Attention	The printer detected that a new consumable was installed but cannot use it. Verify that you have installed the correct Xerox consumable. The printer will not continue to print until the correct consumable has been installed.
W17-Tray 1 Empty	Attention	The printer has detected that tray 1 is empty. Reload the tray so that the printer can continue.
W18-Tray 2 Empty	Attention	The printer has detected that tray 2 is empty. Reload the tray so that the printer can continue.
W19-Tray 3 Empty	Attention	The printer has detected that tray 3 is empty. Reload the tray so that the printer can continue.
W20-Tray 4 Empty	Attention	The printer has detected that tray 4 is empty. Reload the tray so that the printer can continue.
W21-Tray 5 Empty	Attention	The printer has detected that tray 5 is empty. Reload the tray so that the printer can continue.

Solving Printing Problems

If you have any problems with the operation of your printer, refer to the following table for suggested remedies.

Printer Operation Problems

Problem	Action
The printer will not print at all, or a file sent from the client/server will not print.	<ul style="list-style-type: none"> ■ Make sure the printer is on-line. ■ Turn off the printer, wait 15 seconds, then turn on the printer. ■ Make sure the printer driver is properly installed and the correct options are selected. ■ Check with your network administrator to see that the printer is powered up, connected to the network and that the network is operational. ■ Check front panel messages for “Paper Jam,” “Cover Open,” etc. ■ If the port (parallel or network) to which the printer is connected is disabled, enable it. To verify that it is enabled, check the Configuration Page for the port you are using to see if the Port Enable item in the appropriate Interface Menu is set to On. If it is set to Off, set it to On and try again. ■ If the printer has printed recently, do the following: <ul style="list-style-type: none"> ■ Attempt to print a Configuration Page. For information on printing a configuration page, refer to the section <i>Printing the Printer’s Internal Pages</i> on page 37. If it does not print, check the support links at: www.xerox.com/officeprinting/infoSMART for further assistance. ■ If the Configuration Page prints, check to see that the printer is configured properly. ■ If the printer is configured properly, check the Configuration Page to confirm that the correct PDL is enabled for the port or protocol you are using. ■ If the correct PDL is enabled and the printer continues not to print, check the support links at: www.xerox.com/officeprinting/infoSMART for further assistance. ■ If your job still fails to print, resend the job. Network technical difficulties can interfere with a job printing.

Printer Operation Problems (cont'd.)

<p>A printed page does not look like it should.</p>	<ul style="list-style-type: none"> ■ Make sure that the software application you are using to create your print job is configured properly. Refer to your software documentation. ■ Make sure you have selected the appropriate media type in the printer's front panel. Print the Paper Tips Page in the Support menu for a list of paper type and size selections. ■ Make sure the size of paper loaded in the paper tray matches the paper size selected in the computer's driver. ■ Print the Diagnostic Pages for tips on troubleshooting print quality problems. ■ Make sure the recommended driver is being used. <ul style="list-style-type: none"> ■ Verify that the options you have selected within the driver are installed on the destination printer as specified in the Configuration Page. ■ Try using the default settings of the driver.
<p>The requested font for the job does not print.</p>	<p>Print a PCL Font List, or PostScript Font List if the job is PostScript.</p> <ul style="list-style-type: none"> ■ If fonts print on the Font List, your print job may need correcting. ■ If fonts do not print on the Font List, reload the fonts and print another PCL or PostScript Font List. ■ For information on font substitution, refer to <i>Font Substitution Table</i> on page 24.
<p>2-sided printing</p>	<ul style="list-style-type: none"> ■ Make sure the Auto Duplex Unit is installed. ■ Make sure the 2-sided printing option is selected in the printer driver. ■ Make sure the paper type selected in the printer driver is supported for 2-sided printing. ■ Automatic 2-sided printing is supported from Trays 1, 2, 3, 4 and 5. ■ Automatic 2-sided printing is not supported from the Multi-Sheet Bypass Feeder (MBF). ■ 2-sided printing is not available with either the 1st page different or separator page options.

Printer Operation Problems (cont'd.)

- | | |
|--|---|
| PostScript commands are printed instead of the PostScript job. | <ul style="list-style-type: none">■ Make sure that the software application you are using to create your job is configured properly. Refer to your software documentation.■ The job sent to the printer might have included an incorrect header, and therefore, not have indicated that a PostScript job was being sent.■ Check your software to make sure you are using the correct printer driver.■ Set the Print Errors item in the Print PostScript Menu to On and resend the job.<ul style="list-style-type: none">■ If an error page prints, there is a problem in the PostScript coding. The error page contains vital information. Retain the page and check the support links at: www.xerox.com/officeprinting/infoSMART for further assistance.■ If an error page was not printed, the printer may require additional memory to process the job.■ Verify that the port is set to <i>Auto</i> or <i>PostScript</i>. |
| A PostScript or PCL job fails to print. | <hr/> <ul style="list-style-type: none">■ Check that you are using the correct printer driver.■ For a PostScript job, set the Print Errors item in the PostScript Menu to On and resend the job.<ul style="list-style-type: none">■ If an error page prints, there is a problem in the PostScript coding. The error page contains vital information. Retain the page and check the support links at: www.xerox.com/officeprinting/infoSMART for further assistance.■ If an error page was not printed, the printer may require additional memory to process the job.■ For a PCL job, do the following:<ul style="list-style-type: none">■ Check prints for PCL errors.■ If you have written your own PCL code, check your PCL manual for solutions.■ If there is no error message, resend the job.■ If you are still receiving error, call support for further assistance. |
-

Installation Precautions

The Phaser 2135 printer options are easy to install; however, before you attempt to install (or remove) any printer options, please read and observe the following precautions.

Warning

THREE PEOPLE ARE REQUIRED WHEN LIFTING OR CARRYING THE PRINTER. The printer should always be lifted and carried by three people, as shown below. Exercise care in moving or relocating the printer. Follow the recommended procedure when moving the printer from one location to another. Refer to the Phaser 2135 Setup Instructions.



Warning

DISCONNECT THE POWER CORD: Never remove the printer controller board while the printer is plugged in. To avoid the possibility of electrical shock, always disconnect the power cord when installing or removing ANY internal or external printer option.

Caution

DISCHARGE STATIC ELECTRICITY: The controller board and internal printer options (Hard Drive and Memory) are sensitive to static electricity. Before installing or removing an internal option, discharge static electricity from your body by touching something metal, such as the metal back plate on any device plugged into a grounded power source. If you walk around before finishing the installation, again discharge any static electricity.

Hard Drive

If you install the optional hard drive in the printer, it will significantly increase the amount of memory available for processing jobs and storing downloaded information (such as fonts, forms, overlays (macros) and Secure Print and Proof Print jobs).

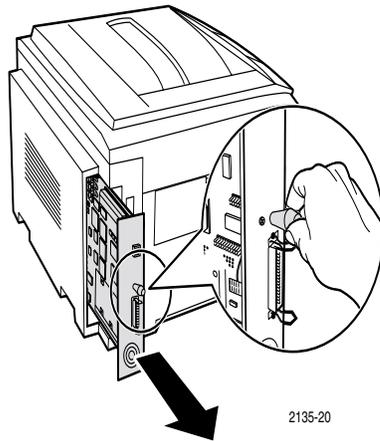
The hard drive is used for the following:

- Support of the PostScript file system
- Support of the PJL/PCL file system
- Receiving raw (unprocessed) data for Secure Print and Proof Print jobs
- Downloading fonts, forms, and overlays
- TIFF and PDF printing

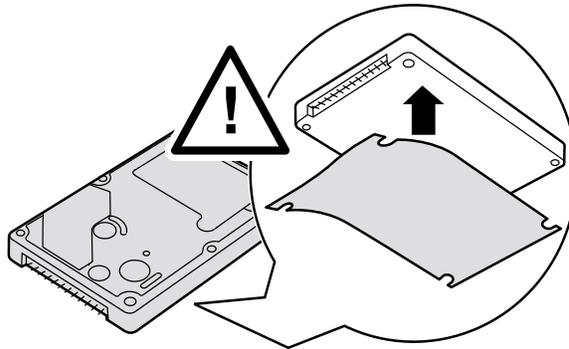
Installation

Follow this procedure to install the hard drive:

1. Turn off the printer and disconnect the cables and power cord.
2. Remove the screws that secure the controller board and slide the controller board out of the printer. Place it on a stable horizontal surface.

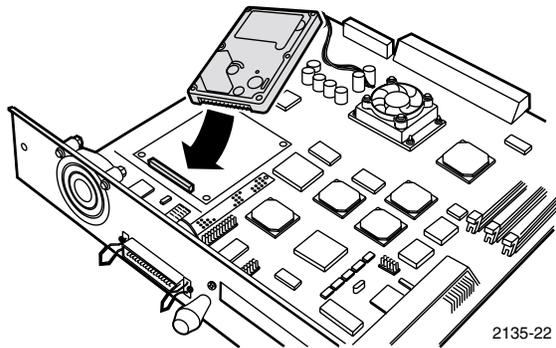


3. Apply the sticky-back paper to the drive.



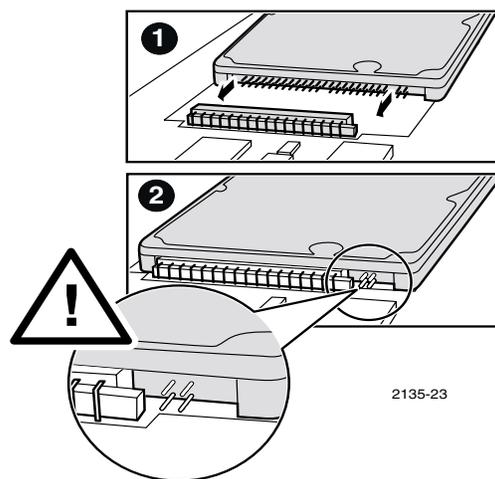
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4. Place the hard drive on the circuit card assembly.



2135-22

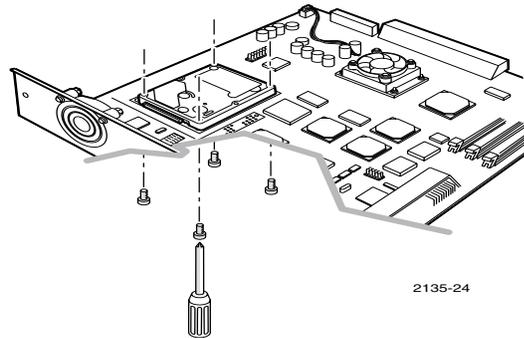
5. Align the hard drive carefully so that the rightmost four pins on the hard drive are to the right of the connector on the circuit card assembly and slide it firmly in place.



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Installation Precautions

- Secure the hard drive in place using four screws. If the screws don't line up correctly with the holes in the bottom of the hard drive, check alignment of the hard drive as indicated in step 5 above.



- Align the controller board with the printer's guide channel and slide the board all the way into the printer until it stops. Then replace the screws to secure the controller board.
- Reconnect the power cord and all cables and turn on the printer.
- Print a Configuration Sheet (as described on *Printing the Printer's Internal Pages* on page 37) and confirm that the hard drive appears as an installed option. If any problems occur, reinstall the drive. If problems persist, check the support links at: www.xerox.com/officeprinting/infoSMART for assistance.

Disk Initialization

The disk is preformatted and requires no initialization. The disk may be returned to its initial state, with no loaded fonts, overlays or Secure Print/Proof Print jobs, by selecting the Initialize Disk item from the Reset Menu.

Memory

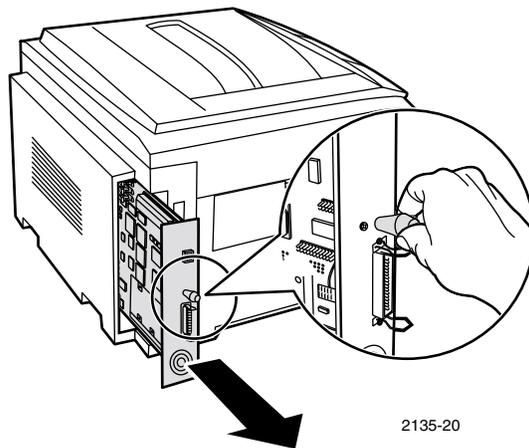
Caution

DISCHARGE STATIC ELECTRICITY: The controller board and internal printer options (Hard Drive and Memory) are sensitive to static electricity. Before installing or removing an internal option, discharge static electricity from your body by touching something metal, such as the metal back plate on any device plugged into a grounded power source. If you walk around before finishing the installation, again discharge any static electricity.

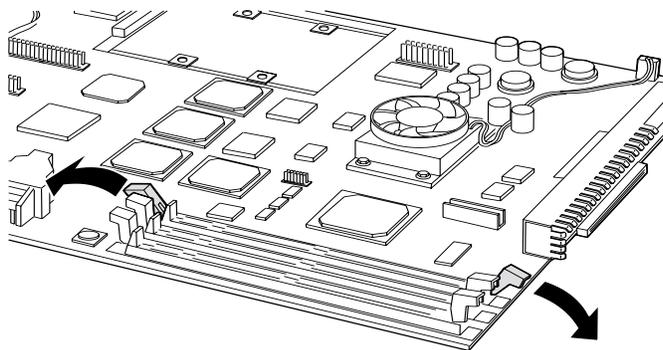
Installation

Follow this procedure to install additional memory.

1. Turn off the printer and disconnect cables and power cord.
2. Remove the screws that secure the controller board and slide the controller board out of the printer. Place it on a stable horizontal surface.



3. Pull apart the clips on either side of an available memory slot.

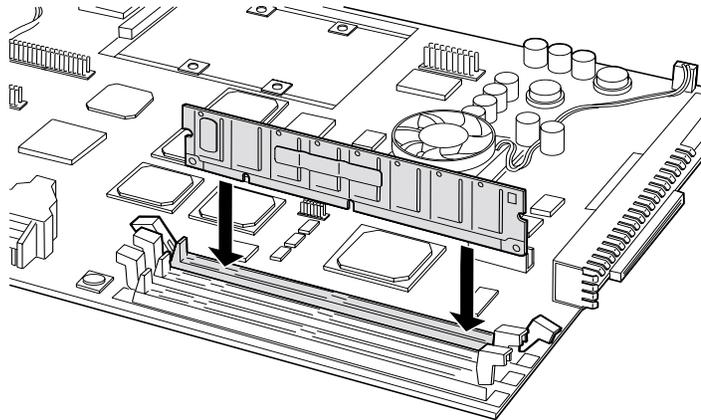


Installation Precautions

4. Insert the memory into the slot.

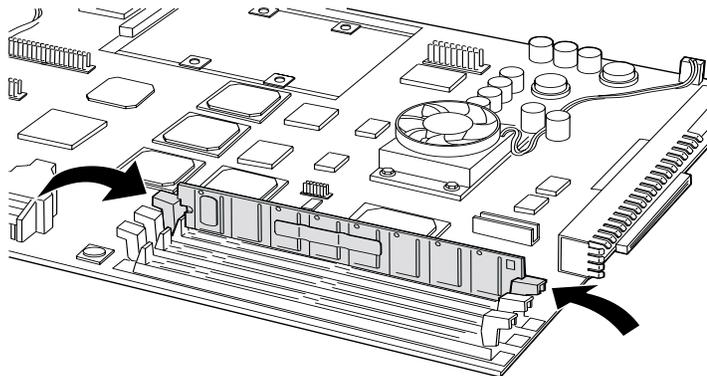
Note

256-Mbyte DIMMs must be used alone or as a pair. They cannot be used in combination with any other size of memory.



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5. Secure the memory to the controller board with the clips.
6. Align the controller board with the printer's guide channel and slide the board all the way into the printer until it stops. Then replace the screws to secure the controller board.



7. Reconnect the power cord and all cables and turn on the printer.
8. Print a Configuration Sheet (as described on page 37) and confirm that the total memory is correct. If any problems occur, reinstall the memory. If problems persist, check the support links at www.xerox.com/officeprinting/infoSMART for assistance.

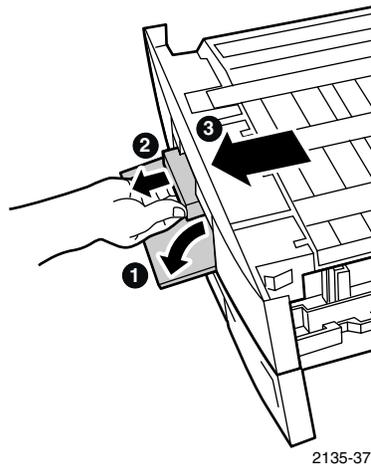
Auto Duplex Unit Replacement

With the auto duplex unit, the printer can print on 2 sides of specific media types and sizes. For additional information about the specific media types and sizes, see Automatic Two-Sided Printing on *page 14*.

The following instructions are designed to describe the replacement of a duplex unit. If you are installing a new duplex unit, refer to the instruction sheet that was included with your new duplex unit.

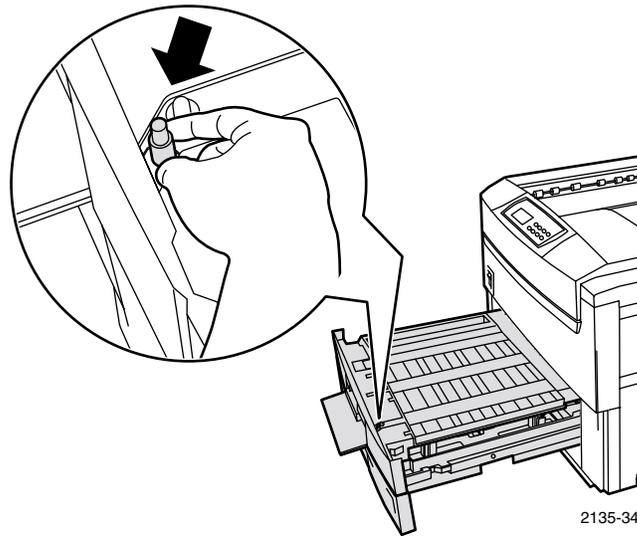
Removal

1. Open the duplex unit door **(1)**, pull the green handle out **(2)** and pull both tray 1 and the duplex unit out **(3)**.

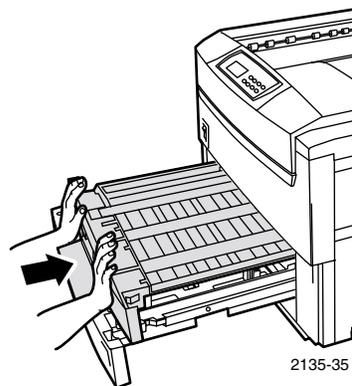


Installation Precautions

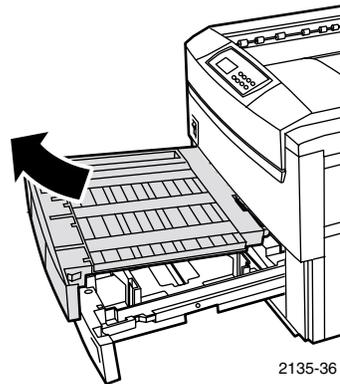
2. Pull the lever in the right corner of the duplex unit toward the front of the tray to retract the duplex unit guide pins.



3. Firmly push the duplex unit towards the printer to release it from tray 1.



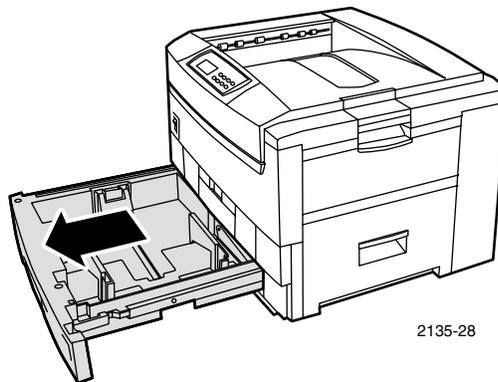
4. Remove the duplex unit.



Installation

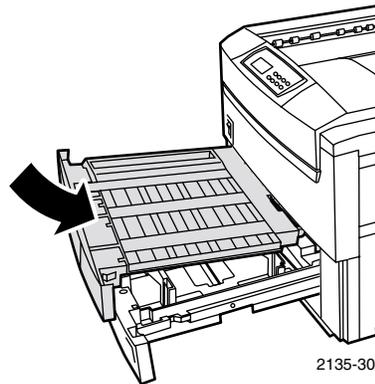
Follow this procedure to install the new auto duplex unit.

1. Open tray 1.

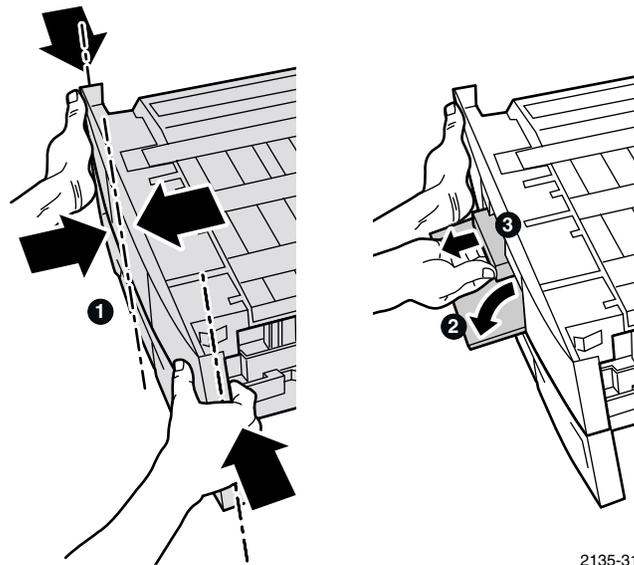


Installation Precautions

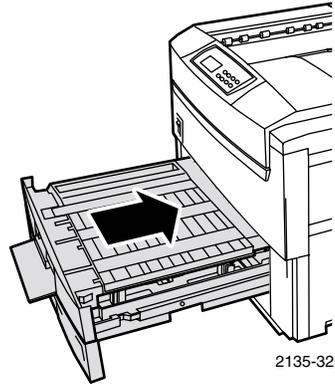
2. Place the duplex unit on tray 1.



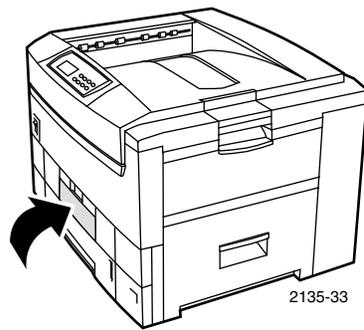
3. Line up the front of the duplex unit with the front of tray 1 (1), open the duplex unit door (2) and pull out the green handle (3).



4. Push the duplex unit and tray 1 back into the printer.



5. Close the duplex unit door.



Networking

Connecting to Your Network

Setting a Subnet Mask at the Front Panel

Note

Setting a Subnet Mask can also be accomplished in CentreWare DP, CentreWare MC, or CentreWare IS. Refer to *page 69* for more information.

If your printer is connected to a WAN (Wide Area Network), you may restrict user access by setting a Subnet Mask.

1. Press **Menu Up** or **Menu Down** until you see:

```
Menus
Ethernet Menu
```

2. Press **Item Up** or **Item Down** until you see:

```
Ethernet Menu
Subnet Mask
```

3. Press **Value Up** or **Value Down**. You should see:

```
Subnet Mask =
xxx.xxx.xxx.xxx
```

4. Press **Value Up** or **Value Down** to change the value of the character above the cursor. The value is incremented or decremented by 1 each time the key is pressed. Holding down **Value Up** or **Value Down** causes continuous scrolling through the values.
5. To change other characters in the Subnet Mask, press **Item Up** or **Item Down** to scroll right or left respectively through the character string, then press **Value Up** or **Value Down** to change the value of the character above the cursor (as in Step 4).
6. When you have completed setting the IP address, press **Enter**. You should see:

```
Ethernet Menu
IP Address
```

7. Press **On Line**. You should see:

```
Ready
```

Setting Default Gateway at the Front Panel

Note

Setting a Default Gateway can also be accomplished in CentreWare DP, CentreWare MC, or CentreWare IS. Refer to *page 69* for more information.

1. Press **Menu Up** or **Menu Down** until you see:

```
Menus
Ethernet Menu
```

2. Press **Item Up** or **Item Down** until you see:

```
Ethernet Menu
Default Gateway
```

3. Press **Value Up** or **Value Down**. You should see:

```
Default Gateway =
xxx.xxx.xxx.xxx
```

4. Press **Value Up** or **Value Down** to change the value of the character above the cursor. The value is incremented or decremented by 1 each time the key is pressed. Holding down **Value Up** or **Value Down** causes continuous scrolling through the values.
5. To change other characters in the Default Gateway address, press **Item Up** or **Item Down** to scroll right or left respectively through the character string, then press **Value Up** or **Value Down** to change the value of the character above the cursor (as in Step 4).
6. When you have completed setting the Default Gateway address, press **Enter**. You should see:

```
Ethernet Menu
Default Gateway
```

7. Press **On Line**. You should see:

```
Ready
```

Setting a TCP/IP Address

Your Phaser 2135 printer can be set up on a variety of TCP/ IP networks. There are several ways in which your printer can be assigned a TCP/IP address depending on your network.

- Static Addressing TCP/IP address is assigned manually by the System Administrator.
- Dynamic Addressing BOOTP TCP/IP address is assigned automatically by the Server.
- Dynamic Addressing DHCP (Dynamic Host Resolution Protocol) TCP/IP address is assigned automatically by the Server.

For setting a TCP/IP address, refer to the *Phaser 2135 Color Printer Quick Network Install Guide*. Determine which method is appropriate to use for your network and follow the steps of the procedure.

Setting up AppSocket

To enable or disable the AppSocket protocol, perform the following steps:

1. Press **Menu Up** or **Menu Down** until you see:

```
Menus
Ethernet Menu
```

2. Press **Item Up** or **Item Down** until you see:

```
Ethernet Menu
AppSocket Enable
```

3. Press **Value Up** or **Value Down** until you see:

```
AppSocket Enable =
On or Off
```

4. Press **Enter**. You should see:

```
Ethernet Menu
AppSocket Enable
```

5. Press **On Line**. You should see:

```
Ready
```

Printing the Configuration Page

It is important to print a Configuration Page from the printer to determine the current network settings of your Phaser 2135 printer. The default settings enable all ports, which are suitable for most applications. Refer to the *page 18* for step-by-step instructions on printing a Configuration Page.

Note

If you change any settings, print another Configuration Page to verify that your changes were made.

Resetting the Printer

To Reset your printer from the Front Panel:

1. Press **Menu Up** or **Menu Down** until you see:

```
Menus
Job Menu
```

2. Press **Item Up** or **Item Down** until you see:

```
Job Menu
Restart Printer
```

3. Press **Value Up** or **Value Down** until you see:

```
Restart Printer
Yes
```

4. Press **Enter**. You should see:

```
Job Menu
Restart Printer
```

5. Press **On Line**. You should see:

```
Ready
```

Novell NetWare Setup

NetWare 3.1X Print Server Setup, NetWare 4.X/5.0 Print Server Setup

The Phaser 2135 printer defaults, in most cases, enable connection to Novell NetWare without adjustment. Review the Configuration Page and verify the following settings:

- Netware is enabled.
- Frame Type matches the frame type of the desired file server.
- PDL is set to your desired PDL (PostScript or PCL) or to Auto. You may wish to set PDL to the desired type if only one PDL is used.
- Desired Novell mode is set: NDS/BEM, NDS or BEM
- Print Server Name.

Setup with CentreWare DP

The CentreWare DP software supplied on the Printer Management Software CD-ROM provides you with the quickest and easiest method for installing your printer on a network. Everything you need to know to use this software is contained in the help files. If you prefer, a *CentreWare DP User Guide* in several languages is provided in PDF form on the Printer Management Software CD-ROM in the \doc\ folder. Please take a minute to examine this software.

Advanced Setup in Bindery Mode or for NetWare Directory Services Network (NDS)

The Advanced Setup option of CentreWare DP gives you an additional tool to control how your printers are configured in your Novell NetWare network environment. This tool is only necessary for connecting your printer to more than one file server or queue.

Novell NetWare Distributed Print Services (NDPS/ NEPS)

In order to access Xerox printers in this environment, you need the Xerox Gateway software installed on your system. The latest version of the Xerox Gateway Software is available on the Xerox web site: www.xerox.com/ndps. Instructions are available on the web site for how to install your printer using NDPS.

Novell NetWare Troubleshooting

Troubleshooting for the Windows-based PC consists of both hardware and software procedures. The steps in each of these procedures should eliminate cabling, communication, and connection problems associated with direct-connected ports. Complete one of these procedures (based on the type of port being used), then run a test print from your software application. If the job prints, no further system troubleshooting is necessary. For problems with the appearance of your document, once it has printed, consult the *Troubleshooting* on page 76.

Requirements

- You are operating a Windows-based system with the CentreWare DP software and at least one print driver installed.
- You are a NetWare Network Administrator OR administrative person with ADMIN/SUPERVISOR or ADMIN/SUPERVISOR EQUIVALENT login rights to the NetWare Server(s) servicing the Phaser 2135 printer.
- The instructions for these troubleshooting tasks assume a base knowledge of NetWare.

Novell NetWare Troubleshooting Quick Check

1. Verify that the printer is plugged in, turned on, and connected to an active network.
2. Verify that the printer is receiving network traffic by monitoring the LEDs on the back of the printer. When the printer is connected to a functioning network receiving traffic, its link LED is green, and its orange traffic LED is flashing rapidly.
3. Verify that the client is logged into the network and printing to the correct print queue. Also verify that the user has access to the Phaser 2135 printer queue.
4. Verify that the Phaser 2135 printer NetWare print queue exists, is accepting jobs, and has a Print Server attached. If not, try using Setup Wizard in CentreWare DP to reconfigure the print queue.
5. Print out a Configuration Page. Verify that Printer Server is enabled. Try setting the frame type to the frame type your NetWare Server is using.

Note

To determine your NetWare IPX frame type, type `config` at the Novell console screen. On networks using multiple IPX frame types, it is CRITICAL that the frame type be set correctly.

6. Verify that the Primary Server is set. (Primary Server should have been set during initial queue setup and installed using CentreWare DP.) If it is not set, use CentreWare DP to set it and reset the printer.

Note

Setting the Primary Server is extremely important on large networks.

7. If the above quick checks fail to fix the printing problem, refer to the Xerox web site at: www.xerox.com/officeprinting/infoSMART.

Novell NetWare Troubleshooting Step-by-Step

The steps in this procedure should eliminate cabling, communication, and connection problems associated with network connected printers. The steps are divided into two groups:

- Hardware Step-by-Step
- Software Step-by-Step

Software Step-by-Step assumes that you are connected to a Novell NetWare network with a Windows OS loaded on the client workstation. Complete both of these procedures, then run a test print from your software application. If the job prints, no further system troubleshooting is necessary.

Novell NetWare Hardware Step-by-Step

1. Check LED activity on the printer. Link (green) LED should be ON whenever it is connected to an active network. Traffic (orange) LED should flicker with data reception.
2. Verify cable connections. If possible, substitute a new cable or connectors from a known good system or printer.
3. Check the port to which your printer is attached (concentrator or MAU). Connect a known good network device to it and test.
4. Print a Configuration Page from your printer.
5. Review the Connectivity Settings and check for these things:
 - NetWare is enabled.
 - Frame Type matches the frame type of the desired file server.

Note

To determine your NetWare IPX frame type, type `config` at the Novell console screen. On large networks, using multiple IPX frame types, it is CRITICAL that the frame type be set correctly.

- PDL is set to your desired PDL (PostScript or PCL 5e) or to Auto.
 - Primary Server (for NetWare 3.1X only) is set to the name of the server which serves the print queue you have assigned to the Phaser 2135 printer.
 - NDS Tree (for NetWare 4.1X NDS and later) is set for the correct NDS tree name.
 - NDS Context (for NetWare 4.1X NDS and later) is set for the correct NDS Context.
 - Print Server (PServer) Name is set for the name selected for this Phaser 2135 printer to act as a print server.
 - Novell Mode is correctly set.
6. If any changes are made, reset the printer. Once the printer has been reset, allow the printer approximately two minutes to go through self test, and then log into the network server.
 7. Print out another Configuration Page to verify the items you modified were set and retained.

Novell NetWare Software Step-by-Step

1. Verify that CentreWare DP and a Phaser 2135 printer driver have been loaded on the workstation.
 - In Windows 95/98, Windows NT 4.0, or Windows 2000, double-click on **My Computer** (you may have changed this name). Open the Printers folder to verify that there is an entry for the type of printer you installed.
2. Launch the CentreWare DP software.
 - In Windows 95/98, Windows NT 4.0, or Windows 2000, click on the **Start** button and slide the highlight up to the Programs entry. In the next fold-out window, slide the highlight up or down until you reach the CentreWare DP entry. Release the mouse button to launch.
3. If the desired printer's name appears, your printer is communicating through the network. Select the desired printer. If a communications error message appears, your printer is not able to communicate with your workstation. Verify your printer's settings, then return to this procedure.
4. With the printer still selected, select the Printer drop-down menu and highlight the **Advanced Setup** entry.
5. Under this menu is a sub-menu for NetWare. Select this option.
6. When the Advanced Setup dialog appears, verify the information contained on this screen against the information contained on the Configuration Page. Check for these items:
 - Check the queue name the Phaser 2135 printer is set to service. If necessary, create a new queue to test the printer.
 - Primary Server has the server name listed on the Configuration Page.
 - If your printer is configured to service both NDS and Bindery mode queues, make sure the Primary Server is not in the NDS tree the printer is configured for.
7. Exit this window and select the Tools drop-down menu.
8. Select the **Send File...** menu item.
9. When the dialog box appears, select the proper directory and file for downloading. Be sure this is a known good file with no errors.
10. Click **OK** to download the file to your printer.
11. Check the printer to verify that the print job has printed. If the job has not printed, check the Novell Menu settings on the Configuration Page.
12. At the CentreWare DP main screen, select the Printer drop-down menu. Highlight the **Properties** entry.

- 13.** Once Properties is selected, highlight **Connections**.
- 14.** Select the **Network Card** tab. A new dialog box is brought to the front and displays information about frame type and connectors.
- 15.** Be certain the printer is enabled and the connector and frame type are correct.
- 16.** If any changes are made, reset the printer from the Front Panel.
- 17.** Run a test print again. If the test print does not print, refer to the Xerox web site at: **www.xerox.com/officeprinting/infoSMART**.

Windows Troubleshooting

Troubleshooting for the Windows-based PC is comprised of a set of procedures for each Windows version. The steps in these procedures should eliminate cabling, communication, and connection problems. Complete one set of procedures (based on your version of Windows), then run a test print from your software application. If the job prints, no further system troubleshooting is necessary.

Requirements

- A Windows-based system with the CentreWare DP software and at least one print driver installed.
- A basic operating knowledge of your Windows version.

Windows (all versions) Quick Check

1. Verify that the printer is plugged in, turned on, and connected to an active network.
2. Verify that the printer is receiving network traffic by monitoring the LED's on the back of the printer or on the CentreDirect External Print Server. When the printer is connected to a functioning network receiving traffic, its link LED is green, and its traffic LED (orange) is flashing rapidly.
3. Verify that the client is logged into the network and printing to the correct print queue. Also verify that the user has access to the Phaser 2135 printer queue.
4. Verify that the Phaser 2135 printer NetWare print queue exists, is accepting jobs, and has a Print Server attached. If not, try using Setup Wizard in CentreWare DP to reconfigure the print queue.
5. Review the Configuration Page and check for these things:
 - NetWare is enabled.
 - Frame Type matches the frame type of the desired file server.

Note

To determine your NetWare IPX frame type, type `config` at the Novell console screen. On large networks using multiple IPX frame types, it is CRITICAL that the frame type be set correctly.

6. Verify that the Primary Server is set. (Primary Server should have been set during initial queue setup and installed using CentreWare DP.) If it is not set, use CentreWare DP to set it and reset the printer.

Note

Setting the Primary Server is extremely important on large networks.

7. If the above quick checks fail to fix the Network Print problem, refer to the Xerox web site at: **www.xerox.com/officeprinting/infoSMART**.

Windows 95/98 Troubleshooting for Network Printers

This troubleshooting section assumes:

- You have loaded a Phaser 2135 printer PCL or PostScript print driver.
 - You have printed and retained a current copy of the Configuration Page.
1. From a workstation desktop, use the right-mouse button and select **Network Neighborhood**. With the left-mouse button, select **Properties** from the cascade menu.
 2. The Network dialog should appear. Select the **Configuration** tab.
 3. Check the list of installed network components for the following items:
 - Client for Microsoft networks
 - 9.x Port Monitor
 4. If you have elected to run CentreWare DP, make sure of the following:
 - Novell Networks:
You are required to load Novell IntraNetWare Client or Microsoft Client for IPX networks.
 - TCP/IP Networks:
No additional software is required, but your printer must have a valid TCP/IP address assigned.
 5. If any of the above protocols or services are not installed, install any components necessary and restart the system.
 6. Once rebooted, select the **Start** button and **Settings**, then select the **Printers** folder. The printers window should appear.
 7. Verify that you have selected the correct driver for your printer.
 8. Right-mouse-click on the printer icon and select **Properties**.
 9. Select the **Details** tab.
 10. Verify the driver name in the **Print using the following driver** list. If necessary, re-select or install a new driver.
 11. Verify the **Port name** in the **Print to the following port** list. If necessary, re-select the correct name.
 12. Start an application and send a print job to the printer. If the printer still does not print, refer to the Xerox web site at: www.xerox.com/officeprinting/infoSMART.

Windows NT 4.x Troubleshooting (TCP/IP)

This troubleshooting section assumes:

- You have loaded a Phaser 2135 printer PCL or PostScript print driver.
- You have printed and retained a current copy of the Configuration Page.
- 1. Verify these items in the Ethernet Menu area of the Configuration Page:
 - IP Address Resolution is set to DHCP, Front Panel, or BOOTP (depending on your network configuration).
 - Current IP Address is set correctly. (Note this address if it is assigned dynamically.)
 - Subnet Mask is set correctly (if used).
 - Default Gateway is set correctly (if used).

Check the LPR and AppSocket settings and verify they are set as desired. These settings are not critical to operation but provide some security and usability features.

- 2. Verify the PDL in the Ethernet Menu area of the Configuration Page:
 - Interpreters: Auto, PCL or PostScript (depending on your driver).
- 3. From the server desktop, use the right-mouse button and select **Network Neighborhood**. With the left-mouse button, select **Properties** from the cascade menu.
- 4. The Network dialog should appear. Select the **Protocols** tab.
- 5. Check the list of installed network protocols for the following item:
 - TCP/IP Protocol.
- 6. If you have elected to run CentreWare DP, you must have loaded Novell NetWare Client 32 and a NWLink IPX/SPX Compatible transport protocol component. You may also discover printers that have been assigned a TCP/ IP address.
- 7. As required, click **Add** and install any components not listed and restart the system.
- 8. Once rebooted, select the **Start** button and **Settings**, then select the **Printers** folder. The printers window should appear.
- 9. Verify that you have loaded and selected the correct driver for your printer.
- 10. Right-mouse-click on the printer icon and select **Properties**.
- 11. Select the **Ports** tab.
- 12. Verify that the IP Address in the **Print to the following port** list is the same as the one from the Configuration Page. If necessary, re-select the TCP/IP number used for your printer.
- 13. Start an application and send a print job to the printer. If the printer still does not print, refer to the Xerox web site at: **www.xerox.com/officeprinting/infoSMART**.

Windows NT 4.x Troubleshooting (AppleTalk)

This troubleshooting section assumes:

- You have loaded a Phaser 2135 printer PCL or PostScript print driver.
 - You have printed and retained a current copy of the Configuration Page.
1. Verify this item in the upper left corner of the Configuration Page:
 - EtherTalk Name is correct.
 2. Verify these items in the EtherTalk and Ethernet Menu areas of the Configuration Page:
 - Enabled is set to **Yes**.
 - Zone contains the desired zone name or * (*=all zones).
 3. From the server desktop, use the right-mouse button and select **Network Neighborhood**. With the left-mouse button, select **Properties** from the cascade menu.
 4. The Network dialog should appear. Select the **Configuration** tab.
 5. Check the list of installed network components for the following item:
 - AppleTalk Protocol
 6. If you have elected to run CentreWare DP you must have loaded Novell NetWare Client 32, Novell NetWare Client, a Novell server on the network, and an IPX/SPX Compatible protocol component. You may also discover printers that have been assigned a TCP/IP address.
 7. As required, install any components not listed and restart the system.
 8. Once rebooted, select the **Start** button and **Settings**, then select the **Printers** folder. The printers window should appear.
 9. Verify that you have selected the correct driver for your printer.
 10. Right-mouse-click on the printer icon and select **Properties**.
 11. Select the **Ports** tab.
 12. Verify the AppleTalk name in the **Print to the following port** list. If necessary, re-select the correct name.
 13. Start an application and send a print job to the printer. If printer still does not print, refer to the Xerox web site at: **www.xerox.com/officeprinting/infoSMART**.

Macintosh Network Setup

Macintosh Driver Installation

Note

Installing a Macintosh driver can also be accomplished in CentreWare DP, CentreWare MC, or CentreWare IS. Refer to *page 69* for more information.

Requirements

- A working knowledge of the Macintosh 8.0+ or higher operating system
- Phaser 2135 Color Printer Software CD-ROM

Driver Installation for Macintosh System 8.0+

1. Insert the CD-ROM in your computer's CD-ROM drive.
2. Double-click on the disk icon.
3. Double-click on the installer icon.
4. Follow the installation instructions when prompted.

Note

For more up-to-date information on installing your Phaser 2135 printer driver, refer to the ReadMe file.

Step-by-Step Setup (AppleTalk)

Configuring EtherTalk at the Front Panel

To enable the EtherTalk protocol at your printer's Front Panel, follow these steps:

1. Press **Menu Up** or **Menu Down** until you see:

```
Menus
Ethernet Menu
```

2. Press **Item Up** or **Item Down** until you see:

```
Ethernet Menu
EtherTalk Enable
```

3. Press **Value Up** or **Value Down**. You should see:

```
EtherTalk Enable
On
```

4. Press **Enter**. You should see:

```
Ethernet Menu
EtherTalk Enable
```

5. Press **On Line**. You should see:

```
Ready
```

6. Restart the printer.

Selecting the Printer from the Chooser

Before you send a print job to the Phaser 2135 printer, make sure that it is selected as the current printer in the Chooser.

1. At the printer, print a Configuration Page and note the EtherTalk Name. Refer to the *Phaser 2135 Color Printer Quick Network Install Guide* for instructions.
2. At your computer, select the APPLE in the upper left corner of the Desktop.
3. Select the **Chooser** entry in the menu.
4. Make sure that **AppleTalk** is active.

5. In the left window of the Chooser, click on the **Adobe PS** icon to select it. You may have to use the scroll bars at the right side of this box to locate the icon.

Note

Your network may be divided into AppleTalk Zones. You can tell if there are zones by the appearance of the CHOOSER window. When the CHOOSER program detects multiple zones, the left window is reduced in size. The lower half of the CHOOSER window is a zone list. Identify, then select the zone in which the Phaser 2135 printer is located.

6. When you select a zone, printer names appear in a box to the right.
7. Select the **EtherTalk Name** from the window to the right.
8. Click **Setup**.

Note

If you do not use the Phaser 2135 printer driver, you may not be able to take advantage of all of the printer's features. Before continuing, make sure that the software included with your customer documentation set has been loaded into each Macintosh computer that is sending jobs to the Phaser 2135 printer.

For First Time Installations

9. Highlight the PPD for your Phaser 2135 printer. Click **Select**.
10. Configure your driver with the options installed on your printer.
11. Go to **Step 16**.

For Reconfiguration of Existing Printers

12. Click on **Select PPD**. The window displays a list of PostScript printer description files.
13. Highlight the PPD file for the desired printer.
14. Click **Select**.
15. Select **Configure** and set your driver with the options installed on your printer.
16. Click **OK** when finished.
17. Close the window to exit the Chooser.

Macintosh Troubleshooting

The steps in this procedure should eliminate cabling, communication, and connection problems. Complete these steps, then run a test print from your software application. If the job prints, no further system troubleshooting is necessary. For problems with the appearance of your document once it has printed, consult *Troubleshooting* on page 76

Requirements

- A workstation with the appropriate Phaser 2135 printer driver installed.
- A working knowledge of the operating system (System 8.0+ or higher) being used on your workstation.
- Proper cabling in use to connect your printer to the network.

Macintosh Quick Check

1. Start the Chooser in Operating System 8.0+ or greater software.
2. If the printer name appears, your printer is communicating through the network. You do not need to perform any of the checks outlined in this section.
3. If your printer name does not appear, proceed to the next section.

Macintosh Troubleshooting Step-by-Step

1. Verify that the printer is plugged in, turned on, and connected to an active network.
2. Verify cable connection to the printer from the EtherTalk network. (BNC connections should have the locking pins of the plug snapped into the slots of the jack. RJ45 connections should be fully inserted and the locking clip engaged.)
3. Verify that the printer is receiving network traffic by monitoring the LEDs on the back of the printer. When the printer is connected to a functioning network receiving traffic, its link LED is green, and its orange traffic LED is flashing rapidly.
4. From the Front Panel, verify that EtherTalk is enabled. If not, enable it in the Front Panel (see *page 122*) and reset the printer.
5. Print a Configuration Page and verify that EtherTalk is enabled. Refer to the *Phaser 2135 Printer Quick Network Install Guide* for instructions.
6. From the Configuration Page, verify the Zone. If you have multiple zones on your network, be certain your printer is set to advertise in the desired zone.
7. If you are still unable to print, refer to the Xerox web site at:
www.xerox.com/officeprinting/infoSMART.

UNIX Network Setup

Introduction

For information about the connection and configuration of your printer in UNIX environments, refer to the following documentation also included on your Printer Management Software CD-ROM in the \doc\unix\ folder.

For Solaris systems:

- *CentreWare for UNIX Systems User Guide*

For TTY:

- *TTY Printer Services User Guide*

OS/2 Network Setup

Compatibility

Your Phaser 2135 printer has been tested in the following environments.

Network Operating Systems

- Warp Server V 4.0 (with TCP/IP installed)
- Lan Server V 4.0 with TCP/IP for OS/2 V 2.1
- OS/2 Warp V 4.0 (Peer-to-Peer) (with TCP/IP installed)
- OS/2 Warp Connect V 3.0 (Peer-to-Peer) (with TCP/IP installed)

Required OS/2 Fixpack

- **Warp Server**

APAR 11017 - or -

MPTS Fixpack WR08415 (converged) and “LATEST” TCP/IP V 4.0 PRINT Fixpack (including any requisite fixes/apars) - or -

TCP/IP Fixpack UN00959 and “LATEST” TCP/IP V 3.1 PRINT Fixpack (including any requisite fixes/apars)

- **Lan Server V 4.0 with TCP/IP V 2.0**

APAR 11017 (PN 70015)

- **OS/Warp V 4.0**

MPTS Fixpack WR08415 (converged) and “LATEST”

TCP/IP V 4.0 PRINT Fixpack (including any requisite fixes/apars)

- **OS/2 Warp Connect V 3.0**

MPTS Fixpack WR08415 (converged) and “LATEST” TCP/IP V 4.0 PRINT Fixpack (including any requisite fixes/apars) - or -

TCP/IP Fixpack UN00067 and “LATEST” TCP/IP V 3.0 PRINT Fixpack (including any requisite fixes/apars)

Other Versions

Other versions of Lan Server with TCP/IP for OS/2 may work, but have not been tested and are not supported.

Quick Step (OS/2 Warp Server V 4.0)

To install and use your Phaser 2135 printer in an IBM Warp Server environment, you need to perform several administrative tasks in order to install the printer and configure your server.

Quick Install Setup

1. Network Cable Connection - Attach RJ45/DB15/ BNC.
2. Configuration Page - Print the Configuration Page from the Front Panel.
3. Create OS/2 Printer Object - Install/create printer driver & printer and share.
4. Test Print - Start LPRPORTD/LPRMON, ping printer, open EPM and test print.
5. Print Quality - Print the Print Quality Tips page.

Troubleshooting

1. Check cables/drops. Are the LEDs active?
2. Print Settings. Check Enabled=ON, IPADDRESS=dhcp/ bootp/static (make sure the IP Address resolution is set properly. Use DHCP if your network uses a DHCP server to assign IP addresses. Use BOOTP if your network uses BOOTP to assign IP addresses, and use STATIC if you wish to assign a specific IP address).

Note

You may set a Static IP Address from the front panel.

3. Printer Properties - Using LPD Output Port. WIN-OS2 using LPRMON.
4. Watch LPRPORTD Screen - Is there Activity? In printer input light processing?
5. It may take a few prints before initial quality responds. Print 10-20 pages first.

Step-by-Step Setup for IBM TCP/IP for OS/2

TCP/IP Protocol Configuration

1. Acquire two IP addresses for use on your server and your Phaser 2135 printer.
2. Install TCP/IP for OS/2. Remember to open LAN Adapter and Protocol Support (LAPS/MPTS, etc.) and configure the TCP/IP protocol for your network adapter. (See your OS/2 documentation for configuring network adapters for the TCP/IP protocol.)
3. Open (double-click) TCP/IP Configuration Object.
 - Click the **Printing** tab and enter the following:
 - REMOTE PRINT SERVER = Printer IP Address in 32-bit dotted decimal notation (e.g., 127.0.0.0).
 - REMOTE PRINT SERVER'S PRINTER = ps (Enter **ps** without quotes and in lowercase.)
 - MAXIMUM NUMBER OF LPD PORTS = Enter a number between 2 and 64 inclusive.
 - FOR OS/2 PRINTING ONLY (NO WIN-OS/2) Click the **Autostart** tab. Highlight **lprportd**, then click **Autostart Service**, **Foreground Session** and **Minimized**.
 - Close the TCP/IP Configuration Windows. Click **SAVE**, then reply **YES** to Update CONFIG.SYS.
 - Shutdown your server/workstation and reboot.

Note

Once completed and you have rebooted, use the “ping” command at an OS/2 Command Prompt to ping your server/workstation’s IP address. Repeat the ping command using your Phaser 2135 printer’s IP Address to confirm that your printer is configured properly for using TCP/IP.

OS/2 Software Installation

Installing the OS/2 Print Driver

1. Download OS/2 drivers from the web at: **www.xerox.com/officeprinting/infoSMART**. Note where you store them during the download.
1. From your OS/2 desktop, use your mouse to double-click on **Templates**.
2. Scroll, if necessary, until you see the Printer Template.
3. Place the cursor over the Printer Template. Press and hold mouse button 2 to drag the Printer icon onto the desktop.
4. When the **Create a Printer** screen appears, enter the desired printer name in the text box at the upper left corner of the screen.
5. Click **Install new printer driver**.
6. In the box at the top left labeled **Printer Driver Selection**, click the radio button for **Other OS/2 Printer Driver**.
7. Click **Install**.
8. In the Directory text box, enter the path in which the drivers reside. Click **Refresh**. The system is taking a minute or two to read the driver files from the CD-ROM.
9. Scroll the list and use your mouse to select the Phaser 2135 printer.
10. Click **Install**.
11. When the **Create a Printer** screen appears, press **Create**. In a moment, the window closes and an icon appears, representing the printer you just created on your desktop.
12. Configure the printer for network use, according to your specific network connections.

OS/2 Troubleshooting

This section contains OS/2 quick check and step-by-step troubleshooting procedures.

Requirements

- A workstation/server with the appropriate Phaser 2135 printer driver installed.
- A working knowledge of the operating system being used on your workstation.
- Proper cabling in use to connect the printer to the network.

OS/2 Quick Check

1. Print a Configuration Page and check ALL IP addresses and verify that you have set the Phaser 2135 printer's address correctly.
2. Use the "ping" command to see if your server responds. If the server does not respond, you may have an addressing or network problem.
3. Use the "ping" command to see if your Phaser 2135 printer responds. If the printer does not respond, you may have an addressing or network problem. Correct these conditions and retry.
4. Use the "ping" command to see if your gateway responds. If the gateway does not respond, you may have an addressing or network problem. Correct these conditions and retry.
5. Check your router, subnet (if applicable), and gateway addresses. (Incorrect addressing can render your lpr/lpd printing system unusable.)
6. For OS/2 printing only, is LPRPORTD.EXE running?
7. For OS/2 and WIN-OS/2 printing, is LPRMON.EXE running?
8. Have you applied appropriate fixpacks, APARs (see Compatibility for required fixpacks)? If not, the proper fixpack must be applied.

TCP/IP for OS/2 versions 2.0, 3.0, 3.1, 4.0

1. Make sure the OS/2 Spooler Print Priority is at the maximum value of 189 (lowering this value frees up memory resources but can have adverse affects on printing graphics). Try adjusting the value to "tune" your server/workstation performance.
2. Changes to TCP/IP Configuration may require system reboot rather than the OS/2 Command "TCPSTART."

OS/2 Troubleshooting Step-by-Step OS/2 Warp V 4.0, OS/2 Warp V 3.0 (all versions), Warp Server, LAN Server 4.0, & Warp Connect using TCP/IP for OS/2 versions 2.0, 3.0, 3.1, 4.0

1. At the OS/2 Command Prompt, issue the command: ping xxx.xxx.xxx.xxx, where, xxx.xxx.xxx.xxx is your server IP address (i.e., 109.108.145.22). If you receive a correct ping reply, go to step 2; otherwise check your TCP/IP configuration and your LAPS/MPTS/APS configurations. (See IBM Documentation for configuring TCP/IP for OS/2 and TCP/ IP LAPS/MPTS/APS configuration.)
2. At the OS/2 Command Prompt, issue the command: ping xxx.xxx.xxx.xxx where, xxx.xxx.xxx.xxx is your Phaser 2135 printer's IP address (e.g.,109.108.145.22). If you receive a correct ping reply, go to step 3; otherwise, check to see that the Phaser 2135 printer's IP address has been correctly entered on the printer. Print a Configuration Page and confirm that the IP address is entered correctly. If necessary, re-enter your IP addresses (IP address, Gateway Address, Subnet Address).
3. At the OS/2 Command Prompt, issue the command: ping xxx.xxx.xxx.xxx where, xxx.xxx.xxx.xxx is your gateway/router IP address (i.e., 100.101.22.5). If you receive a correct ping reply, go to step 4; otherwise, check to see that TCP/IP for OS/2 configuration is correct. (See IBM Documentation for configuring TCP/IP for OS/2 and TCP/IP LAPS/MPTS/APS configuration.)
4. From the OS/2 Desktop, go to OS/2 System, System Setup, Spooler, Open Spooler Settings and confirm that Spooler Print Priority is set to a maximum of 189. If currently set to 189, go to Step 5.
5. Insert your Phaser 2135 Printer Software CD-ROM into your CD-ROM drive.
6. At the OS/2 Command Prompt, issue this exact command: lpr -p ps -s xxx.xxx.xxx.xxx a:\sample.ps* (where xxx.xxx.xxx.xxxx is the IP address of your Phaser 2135 printer). If the test.ps page prints, you have an OS/2 configuration problem. Make sure that you have LPRPORTD or LPRMON running. (If not, activate by issuing the OS/2 command: LPRPORTD or LPMON.) (For LPRMON, see IBM Documentation for correct parameters.)
7. If your printer does not print the test page, check with your TCP/IP, domain, system administrator to confirm the correctness of all TCP/IP settings and configurations. If you are unable to print, refer to the Xerox web site at:
www.xerox.com/officeprinting/infoSMART.

Note

Create a test file with the name "sample.ps" by opening any word processor/text editor. Create a document, then print the document using the print to file option in the Postscript Job Properties window of the Phaser 2135 printer driver. Save the file with the name sample.ps.

Printer Specifications

Physical Specifications

Width: 666 mm (26.22 in.)

Depth: 626 mm (24.65 in.)

Height: 460 mm (18.11 in.)

Weight: 68 kg (149 lbs)

Environmental Specifications

Temperature

- Storage: -20 degrees to 60 degrees C / -4 degrees to 140 degrees F
- Operating: 10 degrees to 32 degrees C / 50 degrees to 90 degrees F
- Optimum print quality environmental conditions: 17 degrees to 26 degrees C / 62 degrees to 80 degrees F

Relative Humidity

- Storage: 10% to 95%
- Operating: 10% to 85%
- Optimum print quality environmental conditions: 35% to 70%

Electrical Specifications

Available in two models:

- 110-127 VAC, 50/60 Hz
- 220-240 VAC, 50/60 Hz

Energy Star Compliant

Performance Specifications

Resolution

- 600 x 600 dpi
- 600 x 1200 dpi

Print Speed

- Up to 26 ppm (pages per minute) black
- Up to 21 ppm color

Controller Specifications

500 MHz processor

Memory

- 128 Mbytes PC100 DRAM Standard
- Upgradable to a maximum of 512 Mbytes

Page Description Languages (PDL)

- PCL 5C
- Adobe PostScript 3
- TIFF
- PDF

Resident Fonts

- 136 PostScript Type 1
- 46 PCL fonts

Interfaces

- IEEE 1284-B bi-directional parallel
- Ethernet 10BaseT and 100BaseTx

Notices and Certifications

FCC Notices...USA

Radio Frequency

Base Printer

This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the 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:

- Re-orient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or a experienced radio/TV technician for help.

Changes or modifications to this equipment not specifically approved by the Xerox Corporation may void the authority granted by the FCC to operate this equipment.

Shielded cables must be used with this equipment to maintain compliance with FCC regulations.

This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Contact: Xerox Corporation
Phone: (800) 828-6571
Address: Xerox Corporation
800 Phillips Road
Webster, New York 14580
USA

Certifications...Canadian

60 HZ, 115V

The equipment is listed by the Underwriters Laboratories, UL 1950, certified by Canadian Standards Association, CSA22.2, No. 950

Complies with Canadian ICES-3 class B emissions.

European Markets

CE Certification

The CE marking applied to this product symbolizes Xerox Europe Declaration of Conformity with the following applicable directives of the European Union as of the dates indicated:

January 1, 1995 - Council Directive 73/23/EEC amended by Council Directive 93/68/EEC, approximation of the laws of the member states related to low voltage equipment.

EN60950, "Safety of Information Technology Equipment including Electrical Business Equipment."

January 1, 1996 - Council Directive 89/336/EEC, approximation of the laws of member states related to electromagnetic compatibility.

EN55022; 1992 "Limits and methods of measurement of radio interference characteristics for Information Technology Equipment. " Class A

EN61000-3-2; 1997 "Limits for harmonic current emissions."

EN61000-3-3; 1994 "Limitation of voltage fluctuations and flicker in low-voltage supply systems for equipment with rated current < 16A."

EN55024; 1997 "Information Technology Equipment - Immunity characteristics - limits and methods of measurement." Class B.

A full declaration, defining the relevant Directives and referenced standards, can be obtained from your Xerox Europe representative.

Changes or modifications to this equipment not specifically approved by Xerox Europe may result in non-compliance with one or more of the directives listed above.

Shielded cables must be used with this equipment to maintain compliance with the EMC directive (89/336/EEC).

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