



# C520, C522, and C524

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## Menus and Messages Guide



**June 2005**

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**Edition: June 2005**

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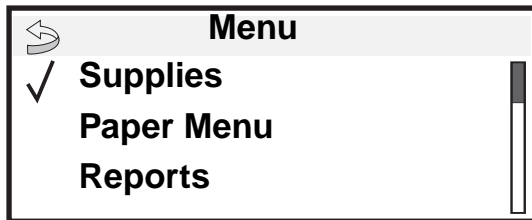
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# 1

## Using printer menus

A number of menus are available to make it easy to change printer settings. The diagram shows the menu index on the operator panel which lists the menus and menu items available under each menu. The menu items in each menu and their values are described in more detail later in this chapter.

**Note:** Some menu items and values are displayed only if a specific option is installed on the printer. Other menu items may only be effective for a particular printer language.



- Supplies Menu**
- Replace Supply
  - Cyan Cartridge
  - Magenta Cartridge
  - Yellow Cartridge
  - Black Cartridge
  - Cyan PC Unit
  - Magenta PC Unit
  - Yellow PC Unit
  - Black PC Unit
  - Fuser
  - Transfer Belt
  - Waste Toner Box

- Paper Menu**
- Default Source
  - Paper Size/Type
  - Configure MP
  - Substitute Size
  - Paper Texture
  - Paper Weight
  - Paper Loading
  - Custom Types
  - Universal Setup

- Reports**
- Menu Settings Page
  - Device Statistics
  - Network Setup Page
  - Network <x> Setup Page
  - Profiles List
  - NetWare Setup Page
  - Print Fonts
  - Print Directory

- Settings**
- Setup Menu
  - Finishing Menu
  - Quality Menu
  - Utilities Menu
  - PDF Menu
  - PostScript Menu
  - PCL Emul Menu
  - HTML Menu
  - Image Menu






- Security**
- Max Invalid PIN
  - Job Expiration

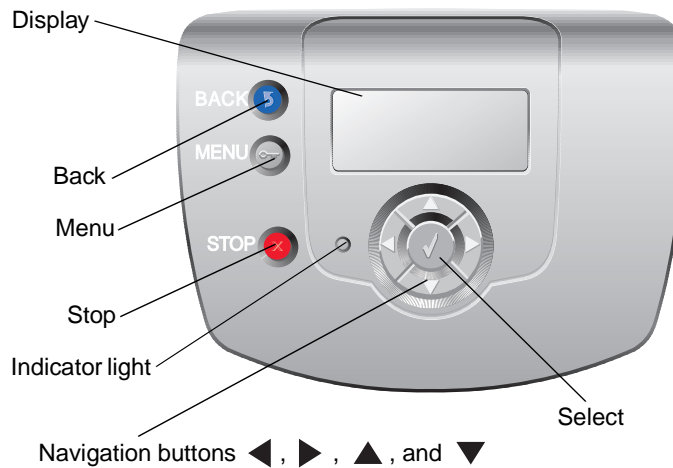
- Network/Ports**
- TCP/IP
  - IPv6
  - Standard Network
  - Network [x]
  - Standard USB
  - USB [x]
  - Parallel
  - Parallel [x]
  - Serial
  - Serial [x]
  - NetWare
  - AppleTalk
  - LexLink

- Help**
- Print All
  - Color Quality
  - Print Quality
  - Printing Guide
  - Supplies Guide
  - Media Guide
  - Print Defects
  - Menu Map
  - Information Guide
  - Connection Guide
  - Moving Guide





### *Understanding the printer operator panel*

The printer operator panel consists of these items:

- A 4-line, grayscale display that can show both graphics and text
- Eight buttons: Back, Menu, Stop, Select (  ), , , , and 
- Indicator light









The use of the buttons and the layout of the operator panel are described in the following table.

Operator panel item	Function										
<b>Back</b> 	To return to the previous screen. <b>Note:</b> This button is only active if  appears on the top left of the screen. Changes made on a screen are not applied if the <b>Back</b> button is pressed.										
<b>Menu</b> 	To open the menu index. <b>Note:</b> The printer must be in the <b>Ready</b> state to access the menu index. A message indicating the menus are unavailable appears if the printer is not ready.										
<b>Stop</b> 	To stop or suspend all printer activity. After pressing <b>Stop</b> , the message <b>stopping</b> appears. When the printer has stopped, the status line on the display shows <b>stopped</b> , and a list of options appears.										
<b>Indicator light</b>	The two-toned light emitting diode called the indicator light on the operator panel gives information about the status of the printer using the colors red and green. <table style="width: 100%; border: none;"> <thead> <tr> <th style="text-align: left;"><b>Status</b></th> <th style="text-align: left;"><b>Indicates</b></th> </tr> </thead> <tbody> <tr> <td>Off</td> <td>Printer power is off.</td> </tr> <tr> <td>Blinking green</td> <td>Printer is warming up, processing data, or printing a job.</td> </tr> <tr> <td>Solid green</td> <td>Printer is on, but idle.</td> </tr> <tr> <td>Solid red</td> <td>Operator intervention is required.</td> </tr> </tbody> </table>	<b>Status</b>	<b>Indicates</b>	Off	Printer power is off.	Blinking green	Printer is warming up, processing data, or printing a job.	Solid green	Printer is on, but idle.	Solid red	Operator intervention is required.
<b>Status</b>	<b>Indicates</b>										
Off	Printer power is off.										
Blinking green	Printer is warming up, processing data, or printing a job.										
Solid green	Printer is on, but idle.										
Solid red	Operator intervention is required.										

## Using printer menus

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Operator panel item	Function
<p><b>Navigation buttons</b></p> 	<p>The <b>Up</b> and <b>Down</b> buttons are used to move up and down in lists. When navigating through a list using the <b>Up</b> or <b>Down</b> button, the cursor moves one line at a time.</p> 
	<p>The <b>Left</b> and <b>Right</b> buttons are used to move within a screen, such as moving from one value to another. They are also used to scroll through text that does not fit on the screen.</p> 
	<p>The <b>Select</b> button is used to initiate action on a menu item or value. Press <b>Select</b> when the cursor is next to the menu item or value needed.</p> 
<p><b>Display</b></p> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <p>☰ Status / Supplies</p> <p>✓ View Supplies</p> <p>Ready</p> <p>Tray 1 low</p> </div> <p><b>Tell me more screen</b></p> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <p>☰ Some held jobs were not restored.</p>  </div> <p><b>Show me screen</b></p> <div style="border: 1px solid black; padding: 5px;"> <p>☰  1. Remove tray; remove print media</p> </div>	<p>The display shows messages and graphics which describe the current state of the printer and indicates possible printer problems requiring resolution.</p> <p>The top line of the display is the header line. If applicable, it contains the graphic indicating the Back button can be used. It also displays the current status and the Supplies (Warnings) status. If multiple warnings are present, each warning is separated by a comma.</p> <p>The other three lines of the display are the body of the screen which shows printer status, supplies messages, Show me screens, and allows for the selection of menus, menu items, and values.</p>

### Menu Groups

**Note:** An asterisk (\*) next to a value indicates the default setting. Not all values are available on all printer models.

### Supplies Menu

The Supplies Menu only has true values for the Replace Supply menu item. The other menu items are view-only status that are seen from the Supplies Menu or through View Supplies. If accessed through View Supplies, each menu item is followed by a colon (:) on the operator panel display.

Menu item	Purpose	Values	
Replace Supply	To select the supply item just replaced. A supply counter must be manually reset when a photoconductor unit is replaced.	Cyan PC Unit	Once a value is chosen, the Supply Replaced Selection screen appears.  Select Yes from the Supply Replaced Selection screen to reset the supply counter.  Select No or press  to exit the Replace Supply menu item.
		Magenta PC Unit	
		Yellow PC Unit	
		Black PC Unit	
Cyan Cartridge	To view the status of the cyan toner cartridge.	Low	Replace indicates end-of-life for the item is near and print quality problems may occur.
		Invalid	
		Replace	
		Missing or Defective	
		OK	
		Uncalibrated	
		Unsupported	
Magenta Cartridge	To view the status of the magenta toner cartridge.	Low	Replace indicates end-of-life for the item is near and print quality problems may occur.
		Invalid	
		Replace	
		Missing or Defective	
		OK	
		Uncalibrated	
		Unsupported	
Yellow Cartridge	To view the status of the yellow toner cartridge.	Low	Replace indicates end-of-life for the item is near and print quality problems may occur.
		Invalid	
		Replace	
		Missing or Defective	
		OK	
		Uncalibrated	
		Unsupported	

## Using printer menus

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Menu item	Purpose	Values	
Black Cartridge	To view the status of the black toner cartridge.	Low	Replace indicates end-of-life for the item is near and print quality problems may occur.
		Invalid	
		Replace	
		Missing or Defective	
		OK	
		Uncalibrated	
		Unsupported	
Cyan PC Unit	To view the status of the cyan photoconductor unit.	Life Warning	
		Replace	
		Missing	
		OK	
Magenta PC Unit	To view the status of the magenta photoconductor unit.	Life Warning	
		Replace	
		Missing	
		OK	
Yellow PC Unit	To view the status of the yellow photoconductor unit.	Life Warning	
		Replace	
		Missing	
		OK	
Black PC Unit	To view the status of the black photoconductor unit.	Life Warning	
		Replace	
		Missing	
		OK	
Fuser	To view the status of the fuser.	Life Warning	
		Replace	
		Missing	
		OK	
Transfer Belt	To view the status of the transfer belt.	Life Warning	
		Replace	
		Missing	
		OK	
Waste Toner Box	To view the status of the waste toner box.	Near Full	
		Replace	
		Missing	
		OK	



## Using printer menus

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### ***Paper Menu***

Use the **Paper Menu** to define settings relating to media.

### **Default Source**

Use this menu item to define the default media source.

Menu item	Purpose	Values	
Default Source	Identifies the default media source.	Tray <x>	If the same size and type of media are in two sources (and the Paper Size and Paper Type menu items are correctly set), the sources are automatically linked. When one source is empty, media automatically feeds from the next linked source.  Tray 1 is the factory default setting.  <b>Note:</b> The MP Feeder value, which stands for the multipurpose feeder, is shown only when Configure MP is set to Cassette. See <b>Configure MP</b> for more information.
		MP Feeder	
		Manual Paper	
		Manual Env	

## Using printer menus

### Paper Size/Type

**Note:** Only installed media sources are displayed.

These menu items are used to set the size and type of media loaded into a source, such as a tray, the multipurpose feeder, or the manual feed slot. Setting the size and type is a two-step process. In the first menu item, **Size** appears in bold letters. After selecting the media size, the screen changes, and **Type** appears in bold letters. Then, select the media type.

Menu item	Purpose	Values	
Tray <x> <b>Size/Type</b>	Identifies the default size for each source. <b>Note:</b> For trays with automatic size sensing, only the value detected by the hardware appears.	*A4 (non-US) A5 JIS B5 *Letter (US) Legal Executive Folio Universal	If the same size and type of media is in two sources (and the Paper Size and Paper Type menu items are correctly set), the sources are automatically linked. When one source is empty, media automatically feeds from the next linked source.
Tray <x> <b>Size/Type</b>	Identifies the type of media installed in each source. <b>Note:</b> If a user-defined name is available, it appears instead of <b>Custom Type &lt;x&gt;</b> . If two or more custom types share the same name, the name only appears once in the Paper Type list.	*Plain Paper Card Stock Transparency Glossy Labels Bond Letterhead Preprinted Colored Paper Custom Type <x>	Use this menu item to: <ul style="list-style-type: none"> <li>Optimize print quality for the specified media.</li> <li>Select sources through the software application by selecting type and size.</li> <li>Automatically link sources.</li> </ul> Any sources containing the same type and size of media are automatically linked by the printer if the Paper Size and the Paper Type are set to the correct values.
MP Feeder <b>Size/Type</b>	Identifies the size of media installed in the multipurpose feeder.	*A4 (non-US) A5 JIS B5 *Letter (US) Legal Executive Folio Statement Universal 7 3/4 Envelope 9 Envelope 10 Envelope DL Envelope B5 Envelope C5 Envelope Other Envelope	The multipurpose feeder is only displayed on the operator panel when Configure MP is set to Cassette. <b>Note:</b> See <b>Configure MP</b> for more information.

## Using printer menus

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Menu item	Purpose	Values
MP Feeder Size/Type	Identifies the type of media installed in the multipurpose feeder. <b>Note:</b> If a user-defined name is available, it appears instead of <b>Custom Type &lt;x&gt;</b> . If two or more custom types share the same name, the name only appears once in the Paper Type value list.	*Plain Paper Card Stock Transparency Glossy Labels Bond Envelope Letterhead Preprinted Colored Paper Custom Type <x>
		The multipurpose feeder is only displayed on the operator panel when Configure MP is set to Cassette. <b>Note:</b> See <b>Configure MP</b> for more information.
Manual Paper Size/Type	Identifies the media size being manually loaded.	*A4 (non-US) A5 JIS B5 *Letter (US) Legal Executive Folio Statement Universal
Manual Paper Size/Type	Identifies the media type being manually loaded.	*Plain Paper Card Stock Transparency Glossy Labels Bond Letterhead Preprinted Colored Paper Custom Type <x>
Manual Envelope Size/Type	Identifies the envelope size being manually loaded.	7 3/4 Envelope 9 Envelope *10 Envelope (US) *DL Envelope (non-US) B5 Envelope C5 Envelope Other Envelope
Manual Envelope Size/Type	Identifies the envelope type being manually loaded.	*Envelope Custom Type <x>

## Using printer menus

### Configure MP

This menu item is used to configure the multipurpose feeder as another source or manual feeder. If the multipurpose feeder is linked with another tray, the printer can select media from the multipurpose feeder before selecting media from another tray.

Menu item	Purpose	Values
Configure MP	Determines when the printer selects media loaded in the multipurpose feeder.	*Cassette Manual

### Substitute Size

This menu item is used to determine whether the printer can substitute another paper size if the requested paper size is not currently installed in any of the printer sources. If, for example, Substitute Size is set to Letter/A4, and only letter size paper is installed in the printer when a request is received to print on A4 paper, the printer substitutes letter for A4 and prints the job instead of displaying a change paper request.

Menu item	Purpose	Values
Substitute Size	Substitutes the specified size if the requested size is not loaded.	Off Statement/A5 Letter/A4 *All Listed <ul style="list-style-type: none"> <li>• The Off value indicates no size substitutions are allowed.</li> <li>• The All Listed value indicates that all available substitutions are allowed.</li> </ul>

### Paper Texture

These menu items are used to set the media texture for each of the defined media types. This allows the printer to optimize the print quality for the specified media.

Menu item	Purpose	Values
Plain Texture	Identifies the texture of the media loaded in a specific source.	Smooth *Normal Rough  <b>Note:</b> The default for Bond Texture is Rough.
Transparency Texture		
Glossy Texture		
Labels Texture		
Bond Texture		
Envelope Texture		
Letterhead Texture		
Preprinted Texture		
Colored Texture		
Card Stock Texture	Identifies the texture of the card stock loaded in a specific source.	Smooth *Normal Rough  Shown if Card Stock is supported in the specified source.
Custom <x> Texture	Identifies the texture of the custom media loaded in a specific source.	Smooth *Normal Rough  Shown if the custom type is supported in the specified source.

## Using printer menus

### Paper Weight

These menu items are used to set the paper weight for each of the defined media types. This allows the printer to optimize the print quality for the media weight.

Menu item	Purpose	Values	
Plain Weight	Identifies the relative weight of the media loaded in a specific source, and ensures the toner adheres properly to the printed page.	Light *Normal Heavy	
Transparency Weight			
Glossy Weight			
Labels Weight			
Bond Weight			
Envelope Weight			
Letterhead Weight			
Preprinted Weight			
Colored Weight			
Card Stock	Identifies the relative weight of the card stock loaded in a specific source.	Light *Normal Heavy	Shown if Card Stock is supported in the specified source.
Custom <x> Weight	Identifies the relative weight of the custom paper loaded in a specific source.	Light *Normal Heavy	Shown if the custom type is supported in the specified source.

### Paper Loading

These menu items are used to set the loading orientation for each media type. A source is loaded with preprinted media, and then the printer can be notified that the media is loaded for duplex (two-sided) printing. Use the application software to indicate simplex (one-sided) printing. When simplex printing is selected, the printer automatically inserts blank pages to print the simplex job correctly.

Menu item	Purpose	Values	
Glossy Loading	Properly handles preprinted paper whether the job is a duplexed or a simplex job.	Duplex *Off	
Bond Loading			
Letterhead Loading			
Preprinted Loading			
Colored Loading			
Custom <x> Loading	Properly handles preprinted custom paper whether the job is a duplexed or a simplex job.	Duplex *Off	Shown if the custom type is supported in the specified source.

## Using printer menus

### Custom Types

This menu item is used to define a name for each custom paper type. Assign names using a utility such as MarkVision™ or from the operator panel.

Menu item	Purpose	Values	
Custom Type <x>	Specifies the type of media associated with each Custom Type available in the Paper Type menu.	*Paper Card Stock Transparency Glossy Labels Envelope	The custom type media must be supported in the designated source in order to assign a user-defined name.  Once the name is assigned, the name (truncated to 16 characters) is displayed instead of <b>Custom Type &lt;x&gt;</b> .

### Universal Setup

These menu items are used to specify the height and width of the Universal Paper Size. By specifying the height and width for Universal Paper Size, the printer uses the Universal setting exactly like other paper sizes, including support for duplex and n-up. For more information on n-up, see **Multipage Print**.

Menu item	Purpose	Values	
Units of Measure	Determines the unit of measure used to enter the Universal Height and Width.	Inches Millimeters	Inches is the US default and Millimeters is the international default.
Portrait Width	Sets the portrait width of the universal media. <b>Note:</b> If the value set exceeds the maximum width, the printer uses the maximum value allowed in inches or millimeters.	3 inches to 14.17 inches in 0.01 inch increments 76 mm to 360 mm in 1 mm increments	Shows either inches or millimeters from Units of Measure setting; 8.5 inches is the US default, and 216 mm is the international default.
Portrait Height	Sets the portrait height of the universal media. <b>Note:</b> If the value set exceeds the maximum height, the printer uses the maximum value allowed in inches or millimeters.	3 inches to 14.17 inches in 0.01 inch increments 76 mm to 360 in 1 mm increments	Shows either inches or millimeters from Units of Measure setting; 14 inches is the US default, and 356 millimeters is the international default.
Feed Direction	Specifies the feed direction of the Universal Paper Size.	*Short Edge Long Edge	Long Edge is only shown if the longest edge is shorter than the maximum physical width that the printer tray can accommodate.

### Reports

#### Menu Settings Page

This menu item prints a menu settings page.

Menu item	Purpose	Values	
Menu Settings Page	Prints information relating to the default printer settings and verifies that printer options are installed correctly.	After selecting this item, the page prints and the printer returns to <b>Ready</b> .	

## Using printer menus

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### Device Statistics

This menu item displays the printer statistics.

Menu item	Purpose	Values
Device Statistics	Prints information relating to the printer statistics.	After selecting this item, the page prints and the printer returns to <b>Ready</b> .

### Network Setup Page

This menu item prints a network setup page.

Menu item	Purpose	Values
Network Setup Page <b>Network &lt;x&gt; Setup Page</b> appears if additional network options are installed.	Prints information relating to network settings and verifies the network connection. <b>Note:</b> This page also provides information that aids in configuring for network printing.	After selecting this item, the page prints and the printer returns to <b>Ready</b> .

### Profiles List

This menu item prints a list of profiles stored in this printer.

Menu item	Purpose	Values
Profiles List	Prints a list of profiles stored in the printer.	After selecting this item, the page prints and the printer returns to <b>Ready</b> .

### NetWare Setup Page

This menu item prints information relating to the MarkNet™ N8000 Series internal print server.

Menu item	Purpose	Values
NetWare Setup Page	Prints information relating to the MarkNet N8000 Series internal print server and the network settings defined by the Network <x> Setup menu item in the Network Menu.	After selecting this item, the page prints and the printer returns to <b>Ready</b> .

### Print Fonts

This menu item prints a list of the fonts stored in the printer.

Menu item	Purpose	Values
Print Fonts	Prints a sample of all the fonts available for the selected printer language.	PCL Fonts Prints a sample of all printer fonts available for PCL emulation.
		PostScript Fonts Prints a sample of all printer fonts available for PostScript emulation.

## Using printer menus

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### Print Directory

This menu item prints the directory listing. The directory listing is a list of the resources that are stored on a formatted optional flash memory card or hard disk.

Menu item	Purpose	Values
Print Directory	<p>Prints a list of the resources that are stored on the optional flash memory card or hard disk.</p> <p><b>Note:</b> Print Directory is available only when either a nondefective flash or disk is installed and formatted, and Job Buffer Size is not set to 100%.</p>	After selecting this item, the page prints and the printer returns to <b>Ready</b> .

### Settings

#### Setup Menu

Use these menu items to configure a variety of printer features.

Menu item	Purpose	Values	
Display Language	Determines the language of the text displayed on the operator panel.	English	<b>Note:</b> All values may not be available.
		Français	
		Deutsch	
		Italiano	
		Español	
		Dansk	
		Norsk	
		Nederlands	
		Svenska	
		Português	
		Suomi	
		Russian	
		Polski	
		Hungarian	
		Turkish	
		Czech	
		Simplified Chinese	
Traditional Chinese			
Korean			
Japanese			



## Using printer menus

Menu item	Purpose	Values	
Power Saver	Specifies the amount of time (in minutes) the printer waits after a job is printed before it goes into a reduced power state.	Disabled	This value does not appear unless Energy Conserve is set to Off. See the <i>User's Guide</i> for more information.
		1...240	<p>Specifies the amount of time after a print job before the printer goes into Power Saver mode. (The printer may not support the entire range of values.)</p> <p>The factory default Power Saver setting depends on the printer model. Print the menu settings page to determine the current Power Saver setting. When the printer is in Power Saver mode, it is still ready to receive print jobs.</p> <p>Select <b>1</b> to put the printer in Power Saver mode one minute after it finishes a print job. This uses much less energy, but requires more warm-up time for the printer. Select <b>1</b> if the printer shares an electrical circuit with room lighting and flickering lights are noticed.</p> <p>Select a high value if the printer is in constant use. Under most circumstances, this keeps the printer ready to print with minimum warm-up time. Select a value between 1 and 240 minutes if wanting a balance between energy consumption and a shorter warm-up period.</p>
Alarms	Controls whether the printer sounds an alarm when the printer requires operator intervention.	Alarm Control: Off *Single Continuous	<p><b>Off</b>—Printer does not sound an alarm.</p> <p><b>Single</b>—Printer sounds three quick beeps.</p> <p><b>Continuous</b>—Printer repeats three beeps every 10 seconds.</p>
		Cartridge Alarm: Off *Single Continuous	
Timeouts	<p>Specifies the amount of time (in seconds) the printer waits to return to the home screen, receive an end-of-job message, or receive additional bytes of data from the computer.</p> <p><b>Note:</b> Wait Timeout is only available when using PostScript emulation. This menu value has no effect on PCL emulation print jobs.</p>	Screen Timeout: 15–300 (*30)	<p><b>Disabled</b>—Disables Screen Timeout.</p> <p><b>15–300</b>—Specifies the amount of time the printer waits before returning to the home screen.</p>
		Print Timeout: Disabled 1–255 (*90)	<p><b>Disabled</b>—Disables Print Timeout.</p> <p><b>1–25</b>—Specifies the amount of time the printer waits for an end-of-job message before canceling the remainder of the print job.</p> <p><b>Note:</b> When the timer expires, any partially formatted page still in the printer is printed, and other input ports are examined to see if data exists.</p>
		Wait Timeout: Disabled 15...65535 (*40)	<p><b>Disabled</b>—Disables Wait Timeout.</p> <p><b>15...65535</b>—Specifies the amount of time the printer waits for additional data before it cancels the job.</p>

## Using printer menus

Menu item	Purpose	Values	
Print Recovery	Specifies whether the printer continues from certain offline situations, reprints jammed pages, or waits until the entire page is processed and ready to be printed.	Auto Continue: *Disabled 5–255	Lets the printer automatically continue from certain offline situations when not resolved within the specified time period. <b>5–255</b> —Specifies the amount of time in seconds that the printer waits.
		Jam Recovery: On Off *Auto	Specifies whether the printer reprints jammed pages. <b>On</b> —Printer reprints jammed pages. <b>Off</b> —Printer does not reprint jammed pages. <b>Auto</b> —Printer reprints a jammed page unless the memory required to hold the page is needed for other printer tasks.
		Page Protect: *Off On	Successfully prints a page that may otherwise generate <b>Complex Page</b> errors. <b>Off</b> —Prints a partial page of data if memory is insufficient to process the entire page. <b>On</b> —Ensures that an entire page is processed before it prints. <b>Note:</b> If, after selecting On, the page still cannot print, reduce the size and number of fonts on the page, or increase the installed printer memory. <b>Note:</b> For most print jobs, On is not needed. When On is selected, printing may be slower.
Printer Language	Specifies the default printer language used to communicate data from the computer to the printer. <b>Note:</b> Setting a printer language as the default does not prevent a software application from sending print jobs that use the other language.	PCL Emulation *PS Emulation	<b>PCL emulation</b> —Uses a PCL interpreter for incoming host communications. <b>PostScript emulation</b> —Uses a PS interpreter for incoming host communications.
Print Area	Modifies the logical and physical printable area.	*Normal Whole Page	<b>Note:</b> The Whole Page setting only affects pages printed using PCL 5 interpreter. This setting has no effect on pages printed using the PCL XL or PostScript interpreters. If attempting to print any data in the non-printable area defined by Normal Print Area, the printer clips the image at the boundary defined by the Normal defined printable area.
Download Target	Specifies the storage location for downloaded resources. Storing downloaded resources in flash memory or on a hard disk is permanent storage rather than the temporary storage that RAM provides. The resources remain in the flash memory or on the hard disk even when the printer is turned off.	*RAM	All downloaded resources are automatically stored in printer memory (RAM).
		Flash	All downloaded resources are automatically stored in flash memory.
		Disk	All downloaded resources are automatically stored on the hard disk.

## Using printer menus

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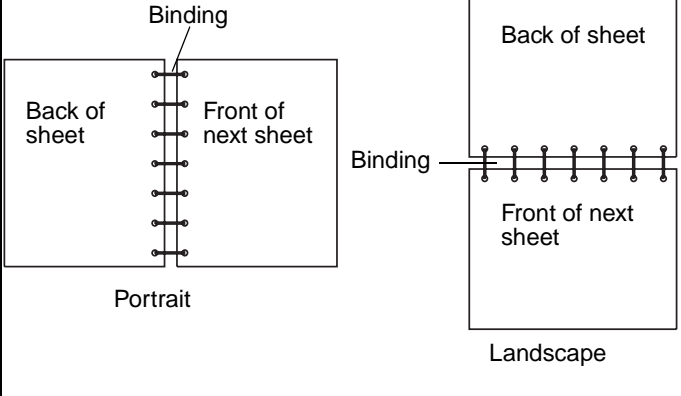
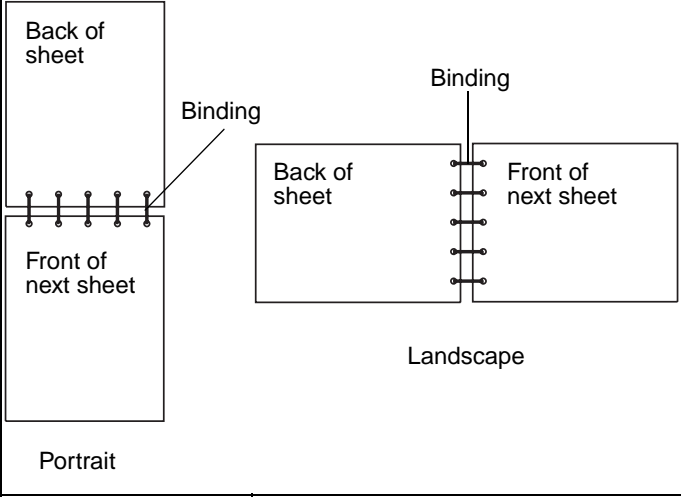
Menu item	Purpose	Values	
Job Accounting	Specifies to store or not store statistical information about the most recent print jobs on the hard disk. The statistics include whether the job printed with or without errors, the print time, the job size (in bytes), the requested media size and type, the total number of printed pages, and the number of copies requested.  <b>Note:</b> Job Accounting is only displayed when a hard disk is installed, is neither defective nor Read/Write or Write protected, and Job Buffer Size is not set to 100%.	*Off	Printer does not store job statistics on disk.
		On	Printer stores job statistics for the most recent print jobs.
Resource Save	Specifies what the printer does with downloaded resources, such as fonts and macros stored in RAM, if the printer receives a job that requires more memory than is available.	*Off	Printer retains downloaded resources only until memory is needed. It then deletes those resources associated with the inactive printer language.
		On	Printer retains all downloaded resources for all printer languages during language changes and printer resets. If the printer runs out of memory, <b>38 Memory Full</b> appears.
Factory Defaults	Returns printer settings to the factory default values.	*Do Not Restore	User-defined settings remain.
		Restore	<ul style="list-style-type: none"> <li>• All menu items are returned to the factory default values except: <ul style="list-style-type: none"> <li>– Display Language.</li> <li>– All settings in the Parallel Menu, Serial Menu, Network Menu, and USB Menu.</li> </ul> </li> <li>• All downloaded resources (fonts, macros, and symbol sets) in printer memory (RAM) are deleted. (Resources residing in flash memory or on the hard disk are unaffected.)</li> </ul>

### Finishing Menu

Use these menu items to define how the printer delivers the printed output.

Menu item	Purpose	Values	
Duplex	Sets duplex (two-sided) printing as the default for all print jobs.  <b>Note:</b> Select <b>Duplex</b> from the printer driver to duplex only specific jobs.	On	Prints on both sides of the paper.
		*Off	Prints on one side of the paper.

## Using printer menus

Menu item	Purpose	Values	
Duplex Bind	Defines the way duplexed pages are bound, and how the printing on the back of the sheet (even-numbered pages) is oriented in relation to the printing on the front (odd-numbered pages).	<p><b>*Long Edge</b></p> <p>Assumes binding along the long edge of the page (left edge for portrait orientation and top edge for landscape orientation). The following illustration shows long-edge binding for portrait and landscape pages:</p> 	
		<p><b>Short Edge</b></p> <p>Assumes binding along the short edge of the page (top edge for portrait orientation and left edge for landscape orientation). The following illustration shows short-edge binding for portrait and landscape pages:</p> 	
Copies	Sets the number of copies needed for the printer default value. <b>Note:</b> Set the number of copies required for a specific job from the printer driver.	1...999 (*1)	Values selected from the printer driver always override values selected from the operator panel.
Blank Pages	Specifies whether to include application-generated blank pages as part of the printed output.	*Do Not Print	Does not print application-generated blank pages as part of the job.
		Print	Prints application-generated blank pages as part of the job.

## Using printer menus

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Menu item	Purpose	Values	
Collation	Keeps the pages of a print job stacked in sequence when printing multiple copies of the job.	On	Prints entire job the number of times specified by the Copies menu item. For example, if Copies is set to 2, and three pages are sent to print, the printer prints page 1, page 2, page 3, page 1, page 2, page 3.
		*Off	Prints each page of a job the number of times specified by the Copies menu item. For example, if Copies is set to 2, and three pages are sent to print, the printer prints page 1, page 1, page 2, page 2, page 3, page 3.
Separator Sheets	Inserts blank separator sheets between jobs, between multiple copies of a job, or between each page of a job.	*None	Does not insert separator sheets.
		Between Copies	Inserts a blank sheet between each copy of a job. If Collation is Off, a blank page is inserted between each set of printed pages (all page 1's, all page 2's, and so on). If Collation is On, a blank page is inserted between each collated copy of the job.
		Between Jobs	Inserts a blank sheet between jobs.
		Between Pages	Inserts a blank sheet between each page of a job. This is useful when printing transparencies or wanting to insert blank pages in a document for notes.
Separator Source	Specifies the source that holds separator sheets.	Tray <x> (*Tray 1)	Selects separator sheets from the specified tray.
		MP Feeder	Selects separator sheets from the multipurpose feeder. <b>Note:</b> Configure MP must be set to Cassette.
Multipage Print	Prints multiple-page images on one side of a sheet of paper. This is also called <i>n-up</i> or <i>Paper Saver</i> .	*Off	Prints 1 page image per side.
		2 Up	Prints 2 page images per side.
		3 Up	Prints 3 page images per side.
		4 Up	Prints 4 page images per side.
		6 Up	Prints 6 page images per side.
		9 Up	Prints 9 page images per side.
		12 Up	Prints 12 page images per side.
		16 Up	Prints 16 page images per side.

## Using printer menus

Menu item	Purpose	Values																		
Multipage Order	Determines the positioning of multiple page images when using Multipage Print.  The positioning depends on the number of images and whether the images are portrait or landscape in orientation.	*Horizontal																		
		Vertical																		
		Rev Horizontal																		
		Rev Vertical																		
		For example, if selecting 4-Up multipage printing and portrait orientation, the results differ depending on the Multipage Order value selected.																		
	<b>Horizontal Order</b> <table border="1" style="margin: auto;"> <tr><td style="text-align: center;">1</td><td style="text-align: center;">2</td></tr> <tr><td style="text-align: center;">3</td><td style="text-align: center;">4</td></tr> </table>	1	2	3	4	<b>Vertical Order</b> <table border="1" style="margin: auto;"> <tr><td style="text-align: center;">1</td><td style="text-align: center;">3</td></tr> <tr><td style="text-align: center;">2</td><td style="text-align: center;">4</td></tr> </table>	1	3	2	4	<b>Reverse Horizontal Order</b> <table border="1" style="margin: auto;"> <tr><td style="text-align: center;">2</td><td style="text-align: center;">1</td></tr> <tr><td style="text-align: center;">4</td><td style="text-align: center;">3</td></tr> </table>	2	1	4	3	<b>Reverse Vertical Order</b> <table border="1" style="margin: auto;"> <tr><td style="text-align: center;">3</td><td style="text-align: center;">1</td></tr> <tr><td style="text-align: center;">4</td><td style="text-align: center;">2</td></tr> </table>	3	1	4	2
1	2																			
3	4																			
1	3																			
2	4																			
2	1																			
4	3																			
3	1																			
4	2																			
Multipage View	Determines the orientation of a multiple-page sheet.	*Auto	Lets the printer choose between portrait and landscape orientation.																	
		Long Edge	Sets the long edge of the media as the top of the page (landscape).																	
		Short Edge	Sets the short edge of the media as the top of the page (portrait).																	
Multipage Border	Prints a border around each page image when using Multipage Print.	*None	Does not print a border around each page image.																	
		Solid	Prints a solid line border around each page image.																	

### Quality Menu

Use these menu items to change settings that affect print quality and save toner.


Menu item	Purpose	Values
Print Mode	To determine whether images are printed in a monochrome grayscale or in color.	*Color
		Black Only

## Using printer menus

Menu item	Purpose	Values	
Color Correction	To adjust the printed color to better match the colors of other output devices or standard color systems.  Due to the differences between additive and subtractive colors, certain colors that appear on the monitor are impossible to duplicate on the printer.	*Auto	Applies different color conversion tables to each object on the printed page, depending on the type of object and how the color for each object is specified.
		Off	No color correction is implemented.
		Manual	Allows customization of the color conversion tables applied to each object on the printed page, depending on the type of object and how the color for each object is specified. Customization is performed using the selections available under the Manual Color menu item.
Print Resolution	To select printed output resolution.	1200 dpi	Provides the highest resolution output which generates preferable output for certain images and graphics. This setting also provides increased gloss.
		*4800 CQ	Default setting.
Toner Darkness	To lighten or darken printed output, or conserve toner.	1	Greatest reduction in toner consumption.
		2	Further reduction in toner consumption.
		3	Reduction in toner consumption.
		4	Default setting.
		5	If Print Mode is Black Only, a setting of 5 increases toner density and darkness to all print jobs. If Print Mode is Color, a setting of 5 is the same as 4.
Color Saver	To conserve toner in graphics and images yet maintain high quality text. The amount of toner used to print graphics and images is reduced; however, text is printed with default toner usage. If selected, this setting overrides Toner Darkness settings. Color Saver is not supported in PPDS, and partially supported by the PCL emulation driver.	On	
		*Off	
RGB Brightness	To assist in making brightness, contrast, and saturation adjustments to color output.	-6, -5, -4, -3, -2, -1, *0, 1, 2, 3, 4, 5, 6	-6 is maximum decrease. 6 is maximum increase.
RGB Contrast	These functions do not affect files where CMYK color specifications are being used. See <b>Frequently asked questions (FAQ) about color printing</b> in the <i>User's Guide</i> on the publications CD for more information on color specifications.	*0, 1, 2, 3, 4, 5	5 is maximum increase.
RGB Saturation		*0, 1, 2, 3, 4, 5	5 is maximum increase.


## Using printer menus

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Menu item	Purpose	Values	
Color Balance	To provide users with the ability to make subtle color adjustments to printed output by increasing or decreasing the amount of toner being used for each color plane individually.	Cyan	-5, -4, -3, -2, -1, *0, 1, 2, 3, 4, 5
		Magenta	-5 is maximum decrease.
		Yellow	5 is maximum increase.
		Black	
		Reset Defaults	Sets values for Cyan, Magenta, Yellow, and Black to <b>0</b> (zero).
Color Samples	<p>To assist users in selecting colors to be printed. Users can print color samples pages for each of the RGB and CMYK color conversion tables used in the printer.</p> <p>The color samples pages consist of a series of colored boxes along with the RGB or CMYK combination that creates the color observed for each particular box. These pages can be useful in helping users decide which RGB or CMYK combinations to use in their software applications to create the desired printed color output.</p> <p>The printer Embedded Web Server (EWS) interface, which is only available on network models, offers users more flexibility. It lets users access the printing of Detailed Color Samples.</p> <p>Press  to print the chosen color sample.</p>	sRGB Display	Prints RGB samples using sRGB Display color conversion tables.
		sRGB Vivid	Prints RGB samples using sRGB Vivid color conversion tables.
		Display—True Black	Prints RGB samples using Display—True Black color conversion tables.
		Vivid	Prints RGB samples using Vivid color conversion tables.
		Off—RGB	Color conversion is implemented.
		US CMYK	Prints CMYK samples using US CMYK color conversion tables.
		Euro CMYK	Prints CMYK samples using Euro CMYK color conversion tables.
		Vivid CMYK	Prints CMYK samples using Vivid CMYK color conversion tables.
		Off—CMYK	No color conversion is implemented.



## Using printer menus

Menu item	Purpose	Values	
Manual Color	To let users customize the RGB or CMYK color conversions applied to each object on the printed page. Color conversion of the data specified using RGB combinations can be customized based on object type (text, graphics, or image).	RGB Image	<p><b>Vivid:</b> Applies a color conversion table that produces brighter, more saturated colors.</p> <p><b>*sRGB Display:</b> Applies a color conversion table to produce output that approximates the colors displayed on a computer monitor.</p> <p><b>Display — True Black:</b> Applies color conversion table to produce output that approximates the colors displayed on a computer monitor while using only black toner for neutral gray colors.</p> <p><b>sRGB Vivid:</b> Increases color saturation for the sRGB Display color conversion table. Preferred for business graphics and text.</p> <p><b>Off:</b> No color conversion is implemented.</p>
		RGB Text	<b>Vivid</b>
		RGB Graphics	<b>sRGB Display</b> <b>Display - True Black</b> <b>*sRGB Vivid</b> <b>Off</b>
		CMYK Image CMYK Text CMYK Graphics	<p><b>*US CMYK</b> (country/region-specific factory default values): Applies a color conversion table to approximate SWOP color output.</p> <p><b>*Euro CMYK</b> (country/region-specific factory default values): Applies color conversion table to approximate EuroScale color output.</p> <p><b>Vivid CMYK:</b> Increases color saturation for the US CMYK color conversion table.</p> <p><b>Off:</b> No color conversion is implemented.</p>
Color Adjust	Initiates a recalibration of printer color conversion tables. This allows the printer to make adjustments for color variations in output that might result from changeable conditions such as room temperature and humidity. Color adjustments are based on printer internal algorithms. Color alignment is recalibrated also.	None	Press  to start this automatic adjustment. <b>Calibrating</b> appears on the printer operator panel during this process.
Enhance Fine Lines	A selection to enable a print mode preferable for certain files containing fine line detail, such as architectural drawings, maps, electronic circuit diagrams, and flow charts.  Enhance Fine Lines is not a menu item. This setting is only available on the PCL emulation driver or PostScript driver or on the printer Embedded Web Server.	On	In the driver, enable the check box.
		*Off	In the driver, disable the check box.





## Using printer menus

### Utilities Menu

Use these menu items to change printer settings, remove jobs, set up printer hardware, and troubleshoot printer problems.

Menu item	Purpose	Values	
Factory Defaults	Returns printer settings to the factory default values.	*Do Not Restore	User-defined settings remain.
		Restore Now	All menu items are returned to the factory default values except: <ul style="list-style-type: none"> <li>• Display Language.</li> <li>• All settings in the Parallel Menu, Serial Menu, Network Menu, and USB Menu.</li> <li>• Resources residing in flash memory or on the hard disk.</li> </ul> <b>Note:</b> All downloaded resources (fonts, macros, and symbol sets) in printer memory (RAM) are deleted.
Remove Held Jobs	Removes confidential and held jobs from the printer hard disk.	Confidential Held Not Restored All	Selecting a value only affects jobs that are resident in the printer. Bookmarks, jobs on USB flash memory devices, and other types of held jobs are not affected.
Format Flash	Formats the flash memory. <b>Warning:</b> Do not turn off the printer while the flash is formatting. <b>Note:</b> This menu item is only displayed if a nondefective optional flash memory card is installed and is not write or read/write password protected.	Yes	Deletes any data stored in flash memory and prepares the flash memory to receive new resources.
		No	Cancels the request to format the flash memory and leaves current resources stored in flash memory.
Defragment Flash	Retrieves lost storage area from resources that were deleted from flash memory. <b>Warning:</b> Do not turn off the printer while the flash is defragmenting. <b>Note:</b> This menu item is only displayed if a nondefective optional flash memory card is installed and is not write or read/write password protected.	Yes	Transfers all resources stored in flash memory to printer memory and then reformats the optional flash memory. When the format operation is complete, the resources are loaded back into flash memory.
		No	Cancels the request to defragment the flash memory.
Format Disk	Formats the printer hard disk. <b>Warning:</b> Do not turn off the printer while the hard disk is formatting. <b>Note:</b> This menu item is only displayed if a nondefective optional hard disk is installed and is not write or read/write password protected.	Yes	Deletes any data stored on the hard disk and prepares the device to receive new resources.
		No	Cancels the request to format the hard disk and leaves current resources stored on the disk.
Job Acct Stat	Prints a listing of all job statistics stored on the hard disk, or clears all statistics on the disk. <b>Note:</b> This menu item is only displayed if a nondefective optional hard disk is installed and is not write or read/write password protected.	Print	Prints all statistics available for the most recent print jobs.
		Clear	Deletes all accumulated job statistics from the hard disk.

## Using printer menus

Menu item	Purpose	Values	
Hex Trace	Helps isolate the source of a print job problem.	Activate	With Hex Trace selected, all data sent to the printer is printed in hexadecimal and character representation. Control codes are not executed. <b>Note:</b> To exit Hex Trace, turn the printer off, or reset the printer: 1 Press  . 2 Press  until  <b>Reset printer</b> appears, and then press  .
Coverage Estimator	Provides an estimate of the percent coverage of cyan, magenta, yellow, and black on a page. The estimate is printed on a separator page.	*Off	Percent coverage is not printed.
		On	Prints the estimated percentage of coverage for each color on the page.
LCD Contrast	Adjusts the contrast of the operator panel display.	1 - 10 (*5)	A higher value makes the display appear lighter; a lower value makes the display appear darker.

### PDF Menu

Use these menu items to change printer settings that affect PDF jobs.

Menu item	Purpose	Values	
Scale to Fit	Scales page content to fit the selected media size.	Yes *No	<b>Yes</b> —Scales the page to fit the selected media. <b>No</b> —Does not scale the page; printed text or graphics are cropped if larger than the selected media.
Annotations	Specifies whether to print annotations in the PDF.	*Do Not Print Print	<b>Do Not Print</b> —Does not print PDF annotations. <b>Print</b> —Prints PDF annotations.

### PostScript Menu

Use these menu items to change printer settings that affect jobs using the PostScript printer language.

Menu item	Purpose	Values	
Print PS Error	Prints a page defining the PostScript emulation error when an error occurs.	On	Prints an error message before it discards the job.
		*Off	Discards the print job without printing an error message.
Font Priority	Establishes the font search order. <b>Note:</b> Font Priority is only displayed when a formatted flash or hard disk is installed, is neither defective nor Read/Write or Write protected, and Job Buffer Size is not set to 100%.	*Resident	Printer searches printer memory for the requested font before searching the flash memory or hard disk.
		Flash/Disk	Printer searches the hard disk and flash memory for the requested font before searching printer memory.

## Using printer menus

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Menu item	Purpose	Values	
Image Smoothing	Enhances the contrast and sharpness of low-resolution bitmapped images (such as images downloaded from the World Wide Web) and smooths their color transitions.  <b>Note:</b> Image Smoothing has no effect on images that are 300 dpi or higher resolution.	On	Enhances low resolution images, such as graphics with a resolution of 72 dpi.
		*Off	Uses default resolution when printing all images.

### PCL Emul Menu

Use these menu items to change printer settings that affect jobs using the PCL emulation printer language.

Menu item	Purpose	Values	
Font Source	Determines the set of fonts displayed in the Font Name menu item.	*Resident	Displays all fonts resident in printer RAM when the printer ships from the factory.
		Disk	Displays all fonts stored on the printer hard disk.
		Flash	Displays all fonts stored in flash memory.
		Download	Displays all fonts downloaded to printer RAM.
		All	Displays all fonts available to the printer from all sources.
Font Name	Identifies a specific font from the specified font source.	*R0 Courier	The font name and font ID for all fonts in the selected font source are displayed. The font source abbreviation is R for resident, F for flash, K for disk, and D for download.
Symbol Set	Determines the symbol set for a specified font name.	*10U PC-8 (US) (country/region-specific factory default values)	A symbol set is a set of alphabetic and numeric characters, punctuation, and special symbols used when printing with a selected font. Symbol sets support the different requirements for languages or specific applications, such as math symbols for scientific text. Only the symbol sets supported for the selected font name are displayed.
		*12U PC-850 (non-US) (country/region-specific factory default values)	

## Using printer menus

Menu item	Purpose	Values	
PCL Emulation Settings	Changes the point size for scalable typographic fonts.	Point Size: 1.00–1008.00 (*12)	Point size refers to the height of the characters in the font. One point equals approximately 1/72 of an inch. Point sizes from 1 to 1008 in increments of 0.25 points can be selected. <b>Note:</b> Point Size is only displayed for typographic fonts.
	Specifies the font pitch for scalable monospaced fonts.	Pitch: 0.08–100.00 (*10)	Pitch refers to the number of fixed-space characters in a horizontal inch of type. A pitch from 0.08 to 100 characters per inch (cpi) in increments of 0.01 cpi can be selected. For nonscalable monospaced fonts, the pitch is displayed but cannot be changed. <b>Note:</b> Pitch is only displayed for fixed, or monospaced, fonts.
	Determines how text and graphics are oriented on the page.	Orientation: *Portrait Landscape	Portrait prints text and graphics parallel to the short edge of the paper. Landscape prints text and graphics parallel to the long edge of the paper.
	Determines the number of lines that print on each page.	Lines per Page: 1–255 *60 (US) *64 (non-US)	The printer sets the amount of space between each line (vertical line spacing) based on the Lines per Page, Paper Size, and Orientation menu items. Select the correct Paper Size and Orientation before changing Lines per Page.
	Sets the width of the logical page for A4 size paper.	A4 Width: *198 mm 203 mm	<b>Note:</b> The 203 mm setting makes the logical page wide enough to print eighty 10-pitch characters.
	Specifies whether the printer automatically performs a carriage return after a line feed control command.	Auto CR after LF: On *Off	<b>Off</b> —Printer does not perform a carriage return after a line feed control command. <b>On</b> —Printer performs a carriage return after a line feed control command.
	Specifies whether the printer automatically performs a line feed after a carriage return control command.	Auto LF after CR: On *Off	<b>Off</b> —Printer does not perform a line feed after a carriage return control command. <b>On</b> —Printer performs a line feed after a carriage return control command.

## Using printer menus

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Menu item	Purpose	Values	
Tray Renumber	Configures the printer to work with printer drivers or applications that use different source assignments for the sources: trays, multipurpose feeder, and the manual feed slot.  <b>Note:</b> See the <i>Technical Reference</i> for more information about assigning source numbers.	Assign MP Feeder:	<b>Off</b> —Printer uses factory default source assignments. <b>None</b> —Source ignores the Select Paper Feed command. <b>0–199</b> —Select a numeric value to assign a custom value to a source.
		Assign Tray [x]:	<b>Off</b> —Printer uses factory default source assignments. <b>None</b> —Source ignores the Select Paper Feed command. <b>0–199</b> —Select a numeric value to assign a custom value to a source.
		Assign Manual Paper:	<b>Off</b> —Printer uses factory default source assignments. <b>None</b> —Source ignores the Select Paper Feed command. <b>0–199</b> —Select a numeric value to assign a custom value to a source.
		Assign Man Env:	<b>Off</b> —Printer uses factory default source assignments. <b>None</b> —Source ignores the Select Paper Feed command. <b>0–199</b> —Select a numeric value to assign a custom value to a source.
		View Factory Def	Displays the factory default value assigned to each source.
		Restore Defaults:	Select <b>Yes</b> to return all source assignments to factory default values.

## Using printer menus

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### HTML Menu

These menu items are used to change the printer HTML settings.

Menu item	Purpose	Values	
Font Name	Sets the default font for HTML documents. <b>Note:</b> Times will be used in HTML documents that do not specify a font.	Albertus MT Antique Olive Apple Chancery Arial MT Avant Garde Bodoni Bookman Chicago Clarendon Cooper Black Copperplate Coronet Courier Eurostile Garamond Geneva Gill Sans Goudy Helvetica Hoefler Text	Intl CG Times Intl Courier Intl Univers Joanna MT Letter Gothic Lubalin Graph Marigold MonaLisa Recut Monaco New CenturySbk New York Optima Oxford Palatino StempelGaramnd Taffy Times TimesNewRoman Univers Zapf Chancery
Font Size	Sets the default font size for HTML documents.	1 pt–255 pt (*12 pt)	Select point sizes from 1 to 255 points in 1 point increments.
Scale	Scales the default font for HTML documents.	1%–400% (*100%)	Select scale sizes from 1 to 400% in 1% increments.
Orientation	Sets the page orientation for HTML documents.	*Portrait Landscape	<b>Portrait</b> —Prints text and graphics parallel to the short edge of the paper. <b>Landscape</b> —Prints text and graphics parallel to the long edge of the paper.
Margin Size	Sets the page margin for HTML documents.	8 mm–255 mm (*19 mm)	Set the margin from 8 to 255 mm in 1 mm increments.
Backgrounds	Specifies whether to print backgrounds in HTML documents.	Do Not Print *Print	<b>Do Not Print</b> —Does not print HTML backgrounds. <b>Print</b> —Prints HTML backgrounds.

### Image Menu

These menu items are used to change the size or orientation of a printed image, or to invert a printed image.

Menu item	Purpose	Values	
Auto Fit	Selects optimal paper size, scaling, and orientation.	*On Off	<b>Note:</b> When set to On, this setting overrides the scaling setting and can override the orientation setting for some images.
Invert	Inverts bi-tonal monochrome images.	On *Off	<b>Note:</b> Does not apply to GIF or JPEG.

## Using printer menus

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Menu item	Purpose	Values	
Scaling	Scales the image to fit media size.	Anchor Top Left *Best Fit Anchor Center Fit Height / Width Fit Height Fit Width	<b>Note:</b> When the Auto Fit setting is set to On, Scaling is automatically set to Best Fit.
Orientation	Sets the image orientation.	*Portrait Landscape Rev Portrait Rev Landscape	<b>Portrait</b> —Prints text and graphics parallel to the short edge of the paper. <b>Landscape</b> —Prints text and graphics parallel to the long edge of the paper.

### Security

These menu items are used to set security levels on individual print jobs requiring a PIN and securing an installed hard disk.

Menu item	Purpose	Values	
Max Invalid PIN	Limits the number of times an invalid pin number can be entered.	*Off 2 3 4 5 6 7 8 9 10	<ul style="list-style-type: none"> <li>This menu item only appears if an optional hard disk is installed.</li> <li>The printer counts the number of times in a row an invalid pin for a user name is entered.</li> <li>Once the limit is reached, the jobs for that user name based on this PIN are deleted.</li> </ul>
Job Expiration	Limits the amount of time a confidential job stays in the printer before it is deleted.	*Off 1 hour 4 hours 24 hours 1 week	



## Using printer menus

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### Network/Ports

#### TCP/IP

This menu item is used to view and change the Transmission Control Protocol/Internet Protocol settings.

**Note:** This menu item is not displayed for non-network models.

Menu item	Purpose	Values	
TCP/IP	Sets the network option to TCP/IP (Transmission Control Protocol/Internet Protocol) <b>Note:</b> This menu item is not displayed for non-network models.	Activate	*On Off
		View Hostname	View only
		Address	4 field IP address
		Netmask	
		Gateway	
		Enable DHCP	*On Off
		Enable RARP	
		Enable BOOTP	
		AutoIP	
		Enable FTP/TFTP	
		HTTP Server Enabled	
		WINS Server Address	4 field IP address
		DNS Server Address	

#### IPv6

Use this menu item to view or change Internet Protocol Version 6 settings.

**Note:** This menu item is not displayed for non-network models.

Menu item	Purpose	Values	
IPv6	Sets the network to IPv6 (Internet Protocol Version 6).	Enable IPv6	*On Off
		View Hostname	View only
		View Address	
		View Router Address	
		Enable DHCPv6	*On Off

## Using printer menus

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### Standard Network and Network <x>

Use these menu items to change printer settings affecting jobs sent to the printer through a network port (either Standard Network or Network <x>).

Menu item	Purpose	Values	
PCL SmartSwitch	Configures the printer so it automatically switches to PCL emulation when a print job received through the network port requires it, regardless of the default printer language.	*On	Printer examines data on the network interface and selects PCL emulation if the data indicates that is the required printer language.
		Off	Printer does not examine the incoming data. The printer uses PostScript emulation to process the job if PS SmartSwitch is On, or uses the default printer language specified in the <b>Setup Menu</b> if PS SmartSwitch is Off.
PS SmartSwitch	Configures the printer so it automatically switches to PostScript emulation when a print job received through the network port requires it, regardless of the default printer language.	*On	Printer examines data on the network interface connection and selects PostScript emulation if the data indicates that is the required printer language.
		Off	Printer does not examine the incoming data. The printer uses PCL emulation to process the job if PCL SmartSwitch is On, or uses the default printer language specified in the <b>Setup Menu</b> if PCL SmartSwitch is Off.
NPA Mode	Specifies whether the printer performs the special processing required for bidirectional communication, following the conventions defined in the Network Printing Alliance (NPA) Protocol. <b>Note:</b> Changing this menu item automatically resets the printer.	Off	Printer does not perform NPA processing.
		*Auto	Printer examines the data to determine the format and then processes it appropriately.
Network Buffer	Configures the size of the network input buffer. <b>Note:</b> Changing the Network Buffer menu item automatically resets the printer.	*Auto	Printer automatically calculates the Network Buffer size (recommended setting).
		3K to maximum size allowed (1K increments)	User specifies the Network Buffer size. The maximum size depends on the amount of memory in the printer, the size of the other link buffers, and whether Resource Save is set to On or Off. To maximize the range for the Network Buffer size, disable or reduce the size of the parallel, serial, and USB buffers.
Job Buffering	Temporarily stores jobs on the printer hard disk before printing. <b>Note:</b> Changing this menu item automatically resets the printer.	*Off	Does not buffer jobs to the hard disk.
		On	Buffers print jobs to the hard disk.
		Auto	Buffers print jobs only if the printer is busy processing data from another input port.

## Using printer menus

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Menu item	Purpose	Values	
Mac Binary PS	Configures the printer to process Macintosh binary PostScript print jobs.	On	Printer processes raw binary PostScript print jobs from computers using the Macintosh operating system. <b>Note:</b> This setting often causes Windows print jobs to fail.
		Off	Printer filters PostScript print jobs using standard protocol.
		*Auto	Printer processes print jobs from computers using either Windows or Macintosh operating systems.

### Standard USB and USB <x>

Use these menu items to change printer settings affecting a Universal Serial Bus (USB) port (USB <x>).

Menu item	Purpose	Values	
PCL SmartSwitch	Configures the printer so it automatically switches to PCL emulation when a print job received through the USB port requires it, regardless of the default printer language.	*On	Printer examines the data on the USB port and selects PCL emulation if the data indicates that is the required printer language.
		Off	Printer does not examine the incoming data. The printer uses PostScript emulation to process the job if PS SmartSwitch is On, or uses the default printer language specified in the Setup Menu if PS SmartSwitch is Off.
PS SmartSwitch	Configures the printer so it automatically switches to PostScript emulation when a print job received through the USB port requires it, regardless of the default printer language.	*On	Printer examines data on the USB interface and selects PostScript emulation if the data indicates that is the required printer language.
		Off	Printer does not examine the incoming data. The printer uses PCL emulation to process the job if PCL SmartSwitch is On, or uses the default printer language specified in the Setup Menu if PCL SmartSwitch is Off.
NPA Mode	Specifies whether the printer performs the special processing required for bidirectional communication, following the conventions defined in the Network Printing Alliance (NPA) Protocol. <b>Note:</b> Changing this menu item automatically resets the printer.	On	Printer performs NPA processing. If data is not in NPA format, it is rejected as bad data.
		Off	Printer does not perform NPA processing.
		*Auto	Printer examines the data to determine the format and then processes it appropriately.

## Using printer menus

Menu item	Purpose	Values	
USB Buffer	Configures the size of the USB input buffer. <b>Note:</b> Changing the USB Buffer menu item automatically resets the printer.	Disabled	Job buffering is disabled. Any jobs already buffered on the disk are printed before normal processing of incoming jobs resumes.
		*Auto	Printer automatically calculates the USB Buffer size (recommended setting).
		3K to maximum size allowed (1K increments)	The user specifies the USB Buffer size. The maximum size depends on the amount of memory in the printer, the size of the other link buffers, and whether Resource Save is set to On or Off. To maximize the range for the USB Buffer size, disable or reduce the size of the parallel, serial, and network buffers.
Job Buffering	Temporarily stores jobs on the printer hard disk before printing. <b>Note:</b> Changing the Job Buffering menu item automatically resets the printer.	*Off	Does not buffer print jobs to the hard disk.
		On	Buffers print jobs to the hard disk.
		Auto	Buffers print jobs only if the printer is busy processing data from another input port.
Mac Binary PS	Configures the printer to process Macintosh binary PostScript print jobs.	On	Printer filters PostScript print jobs using standard protocol.
		Off	Printer processes raw binary PostScript print jobs from computers using the Macintosh operating system. <b>Note:</b> This setting often causes Windows print jobs to fail.
		*Auto	Printer processes print jobs from computers using either Windows or Macintosh operating systems.
ENA Address	Sets the USB port ENA Address.	4 field IP address	Shown only if an ENA is attached through the USB port.
ENA Netmask	Sets the USB port ENA Netmask.		
ENA Gateway	Sets the USB port ENA Gateway.		

### Parallel and Parallel <x>

Use these menu items to change printer settings affecting jobs sent to the printer through a parallel port (either Std Parallel or Parallel <x>).

Menu item	Purpose	Values	
PCL SmartSwitch	Configures the printer so it automatically switches to PCL emulation when a print job received through the parallel port requires it, regardless of the default printer language.	*On	Printer examines data on the parallel interface and selects PCL emulation if the data indicates that is the required printer language.
		Off	Printer does not examine the incoming data. The printer uses PostScript emulation to process the job if PS SmartSwitch is On, or uses the default printer language specified in the <b>Setup Menu</b> if PS SmartSwitch is Off.

## Using printer menus

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Menu item	Purpose	Values	
PS SmartSwitch	Configures the printer so it automatically switches to PostScript emulation when a print job received through the parallel port requires it, regardless of the default printer language.	*On	Printer examines data on the parallel interface and selects PostScript emulation if the data indicates that is the required printer language.
		Off	Printer does not examine the incoming data. The printer uses PCL emulation to process the job if PCL SmartSwitch is On, or uses the default printer language specified in the <b>Setup Menu</b> if PCL SmartSwitch is Off.
NPA Mode	Specifies whether the printer performs the special processing required for bidirectional communication, following the conventions defined in the Network Printing Alliance (NPA) Protocol.  <b>Note:</b> Changing this menu item automatically resets the printer.	On	Printer performs NPA processing. If data is not in NPA format, it is rejected as bad data.
		Off	Printer does not perform NPA processing.
		*Auto	Printer examines data, determines the format, and then processes it appropriately.
Parallel Buffer	Configures the size of the parallel input buffer.  <b>Note:</b> Changing this menu item automatically resets the printer.	Disabled	Disables job buffering. Any jobs already buffered on the disk are printed before normal processing of incoming jobs resumes.
		*Auto	Printer automatically calculates the Parallel Buffer size (recommended setting).
		3K to maximum size allowed (1K increments)	The user specifies the Parallel Buffer size. The maximum size depends on the amount of memory in the printer, the size of the other link buffers, and whether Resource Save is set to On or Off. To maximize the range for the Parallel Buffer size, disable or reduce the size of the serial and USB buffers.
Job Buffering	Temporarily stores jobs on the printer hard disk before printing.  <b>Note:</b> Changing this menu item automatically resets the printer.	*Off	Does not buffer print jobs to the hard disk.
		On	Buffers print jobs to the hard disk.
		Auto	Buffers print jobs only if the printer is busy processing data from another input port.
Advanced Status	Enables bidirectional communication through the parallel port.	Off	Disables parallel port negotiation.
		*On	Enables bidirectional communication through the parallel interface.
Protocol	Specifies the parallel interface protocol.	Standard	May resolve some parallel interface problems.
		*Fastbytes	Provides compatibility with most existing parallel interface implementations (recommended setting).

## Using printer menus

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Menu item	Purpose	Values	
Honor Init	Determines whether the printer honors hardware initialization requests from the computer. The computer requests initialization by activating the INIT signal on the parallel interface. Many personal computers activate the INIT signal each time the computer is turned on and off.	*Off	Printer does not honor hardware initialization requests from the computer.
		On	Printer honors hardware initialization requests from the computer.
Parallel Mode 2	Determines whether the parallel port data is sampled on the leading or trailing edge of strobe.	*On	Samples parallel port data on the leading edge of strobe.
		Off	Samples parallel port data on the trailing edge of strobe.
Mac Binary PS	Configures the printer to process Macintosh binary PostScript print jobs.	On	Printer processes raw binary PostScript print jobs from computers using the Macintosh operating system. <b>Note:</b> This setting often causes Windows print jobs to fail.
		Off	Printer filters PostScript print jobs using standard protocol.
		*Auto	Printer processes print jobs from computers using either Windows or Macintosh operating systems.

### Serial and Serial <x>

Use these menu items to change printer settings affecting jobs sent to the printer through an optional serial port.

Menu item	Purpose	Values	
PCL SmartSwitch	Configures the printer so it automatically switches to PCL emulation when a print job received through the serial port requires it, regardless of the default printer language.	*On Off	<p><b>On</b>—The printer examines the data at the serial interface and selects PCL emulation if the data indicates that is the required printer language.</p> <p><b>Off</b>—The printer does not examine the incoming data. The printer uses PostScript emulation to process the job if PS SmartSwitch is On, or uses the default printer language specified in the <b>Setup Menu</b> if PS SmartSwitch is Off.</p>
PS SmartSwitch	Configures the printer so it automatically switches to PostScript emulation when a print job received through the serial port requires it, regardless of the default printer language.	*On Off	<p><b>On</b>—The printer examines the data at the serial interface and selects PostScript emulation if the data indicates that is the required printer language.</p> <p><b>Off</b>—The printer does not examine the incoming data. The printer uses PCL emulation to process the job if PCL SmartSwitch is On, or uses the default printer language specified in the <b>Setup Menu</b> if PCL SmartSwitch is Off.</p>

## Using printer menus

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Menu item	Purpose	Values	
NPA Mode	<p>Specifies whether the printer performs the special processing required for bidirectional communication, following the conventions defined in the Network Printing Alliance (NPA) Protocol.</p> <p><b>Note:</b> Changing this menu item automatically resets the printer.</p>	On	Printer performs NPA processing. If data is not in NPA format, it is rejected as bad data.
		Off	Printer does not perform NPA processing.
		*Auto	Printer examines the data to determine the format and then processes it appropriately.
Serial Buffer	<p>Configures the size of the serial input buffer.</p> <p><b>Note:</b> Changing the Serial Buffer menu item automatically resets the printer.</p>	Disabled	Disables job buffering. Any jobs already buffered on the disk are printed before normal processing of incoming jobs resumes.
		*Auto	Printer automatically calculates the Serial Buffer size (recommended setting).
		3K to maximum size allowed (1K increments)	User specifies the Serial Buffer size. The maximum size depends on the amount of memory in the printer, the size of the other link buffers, and whether Resource Save is set to On or Off. To maximize the range for the Serial Buffer size, disable or reduce the size of the parallel and USB buffers.
Job Buffering	<p>Temporarily stores jobs on the printer hard disk before printing.</p> <p><b>Note:</b> Changing the Job Buffering menu item automatically resets the printer.</p>	*Off	Does not buffer print jobs to the hard disk.
		On	Buffers print jobs to the hard disk.
		Auto	Buffers print jobs only if the printer is busy processing data from another input port.
Serial Protocol	<p>Selects the hardware and software handshaking values for the serial interface.</p>	*DTR	Hardware handshaking.
		DTR/DSR	Hardware handshaking.
		XON/XOFF	Software handshaking.
		XON/XOFF/DTR	Combined hardware and software handshaking.
		XONXOFF/DTRDSR	Combined hardware and software handshaking.
Robust XON	<p>Determines whether the printer communicates availability to the computer.</p> <p>This menu item only applies to the serial port if Serial Protocol is set to XON/XOFF.</p>	*Off	Printer waits to receive data from the computer.
		On	Printer sends a continuous stream of XONs to the host computer to indicate that the serial port is ready to receive more data.

## Using printer menus

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Menu item	Purpose	Values	
Baud	Specifies the rate at which data can be received through the serial port. <b>Note:</b> 138200, 172800, 230400, and 345600 baud rates are displayed in the Standard Serial menu. These values are not displayed in the Serial Option 1, Serial Option 2, or Serial Option 3 menus.	1200	
		2400	
		4800	
		*9600	
		19200	
		38400	
		57600	
		115200	
		138200	
		172800	
		230400	
		345600	
Data Bits	Specifies the number of data bits that are sent in each transmission frame.	7	
		*8	
Parity	Sets the parity for serial input and output data frames.	Even	
		Odd	
		*None	
		Ignore	
Honor DSR	Determines whether the printer uses the Data Set Ready (DSR) signal. DSR is one of the handshaking signals for most serial interface cables.  The serial interface uses DSR to distinguish data sent by the computer from data created by electrical noise in the serial cable. This electrical noise can cause stray characters to print. Select <b>On</b> to prevent stray characters from printing.	*Off	All data received by the serial port is treated as valid data.
		On	Only data received while the DSR signal is high is treated as valid.

### NetWare

Use these menu items to view or change the printer NetWare settings.

Menu item	Purpose	Values
View Login Name	Displays the assigned NetWare login name.	Selecting <b>View Login Name</b> displays the NetWare name on the operator panel.
View Print Mode	Displays the assigned NetWare print mode.	Selecting <b>View Print Mode</b> displays the NetWare print mode on the operator panel.
View Network Number	Displays the assigned NetWare number.	Selecting <b>View Network Number</b> displays the NetWare network number on the operator panel.



## Using printer menus

Menu item	Purpose	Values	
Activate	Activates or deactivates the NetWare feature.	Off *On	<b>Off</b> —Deactivates the NetWare feature. <b>On</b> —Activates the NetWare feature.
Ethernet 802.2	Sets the Ethernet 802.2 value On or Off.	*On Off	
Ethernet 802.3	Sets the Ethernet 802.3 value On or Off.	*On Off	
Ethernet Type II	Sets the Ethernet Type II value On or Off.	*On Off	
Ethernet SNAP	Sets the Ethernet SNAP value On or Off.	*On Off	
Packet Burst	Sets the Packet Burst value On or Off.	On *Off	
NSQ/GSQ Mode	Sets the NSQ/GSQ Mode value On or Off.	On *Off	

### AppleTalk

Use these menu items to view or change the printer AppleTalk settings.

Menu item	Purpose	Values	
View Name	Displays the assigned AppleTalk name.	Selecting <b>View Name</b> displays the AppleTalk name on the operator panel.	
View Address	Displays the assigned AppleTalk address.	Selecting <b>View Address</b> displays the AppleTalk address on the operator panel.	
Activate	Activates or deactivates the AppleTalk feature.	Off *On	<b>Off</b> —Deactivates the AppleTalk feature. <b>On</b> —Activates the AppleTalk feature.
*Set Zone	Provides a list of zones from network.	The default is default zone for the network. If no default zone exists on the network, the * is the default.	

### LexLink

Use these menu items to view the LexLink name or change the LexLink activation.

Menu item	Purpose	Values	
View Nickname	Displays the assigned LexLink nickname.	Selecting View Nickname displays the LexLink nickname on the operator panel.	
Activate	Activates or deactivates the LexLink feature.	*On Off	<b>On</b> —Activates the LexLink feature. <b>Off</b> —Deactivates the LexLink feature.

## Using printer menus

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### Help

These menu items are used to print some or all of the resident **He1p** menu pages. These pages contain information about printer connectivity, print quality, paper tips, and supplies.

**Note:** If the operator panel is set to a language other than English, French, German, or Spanish, the document prints in English.

The **He1p** menu pages can be printed in the following languages from the publications CD.

English	Spanish	Swedish	Polish
French	Danish	Portuguese	Korean
German	Norwegian	Finnish	Traditional Chinese
Italian	Dutch	Russian	Simplified Chinese

Menu item	Purpose	Values
Print All	Prints all <b>He1p</b> menu topics.	After selecting this item, the <b>He1p</b> menu pages print, and the printer returns to <b>Ready</b> .
Color Quality	Prints the Color Quality topic.	After selecting this item, the <b>He1p</b> menu topic prints, and the printer returns to <b>Ready</b> .
Print Quality	Prints the Print Quality topic.	
Printing Guide	Prints the Printing Guide topic.	
Supplies Guide	Prints the Supplies Guide topic.	
Media Guide	Prints the Media Guide topic.	
Print Defects	Prints the Print Defects sheet.	
Menu Map	Prints the Menu Map topic.	
Information Guide	Prints the Information Guide topic.	
Connection Guide	Prints the Connection Guide topic.	
Moving Guide	Prints the Moving Guide help menu topic.	

# 2

## Understanding printer messages

The printer operator panel displays messages describing the current state of the printer and indicates possible printer problems requiring intervention. This topic provides a list of all printer messages, explains what they mean, and tells how to clear the messages.

The following table lists the messages in alphanumerical order.

Message	Action
Activating Menu Changes	Wait for the message to clear.
Busy	Wait for the message to clear, or cancel the print job.
Calibrating	Wait for the message to clear.
Cancel not available	Wait for the message to clear.
Canceling	Wait for the message to clear.
Change <src> to <Custom Type Name>	<ul style="list-style-type: none"> <li>• Press ▼ until ✓ Continue appears, and then press ⌂ if the media was changed.</li> <li>• Press ▼ until ✓ Use current appears, and then press ⌂ to print on media currently in the printer.</li> <li>• Cancel the current job.</li> <li>• Access the printer show me.</li> </ul>
Change <src> to <Custom String>	
Change <src> to <size>	
Change <src> to <type> <size>	
Clearing job accounting statistics	Wait for the message to clear.
Close lower door. Close upper door.	Close the upper and lower doors to clear the message.
Copies	Enter the desired number of copies.
Defragmenting Flash DO NOT POWER OFF	<p><b>Warning:</b> Do not turn the printer off while this message is displayed.</p> Wait for the message to clear.
Delete	<ul style="list-style-type: none"> <li>• Press ▼ until ✓ Continue appears, and then press ⌂ to delete the specified job.</li> <li>• Press ✖ to cancel the operation.</li> </ul>
Delete all	<ul style="list-style-type: none"> <li>• Press ▼ until ✓ Continue appears, and then press ⌂ to delete all confidential jobs.</li> <li>• Press ✖ to cancel the operation.</li> </ul>
Delete all confidential jobs	<ul style="list-style-type: none"> <li>• Press ▼ until ✓ Continue appears, and then press ⌂ to delete all held jobs.</li> <li>• Press ✖ to cancel the operation.</li> </ul>
Deleting	Wait for the message to clear.
Disabling DLEs	Wait for the message to clear.
Disabling Menus	Wait for the message to clear. <p><b>Note:</b> While the menus are disabled, printer settings from the operator panel cannot be changed.</p>

## Understanding printer messages

Message	Action
Disk corrupted	The printer has attempted a disk recovery process, and cannot repair the disk. ✓ <b>Reformat</b> appears. Press ⏏ to reformat the disk and delete all files currently stored on the disk.
Disk Recovery x/5 yyy% DO NOT POWER OFF	<b>Warning:</b> Do not turn the printer off while this message is displayed. The printer is attempting to recover the hard disk. Disk recovery takes place in five phases; the operator panel displays the percent complete of the current phase. Wait for the message to clear.
Enabling Menus	Wait for the message to clear.
Encrypting Disk yyy% DO NOT POWER OFF	<b>Warning:</b> Do not turn the printer off while this message is displayed. The printer is encrypting the hard disk. The percent complete is displayed. Wait for the message to clear.
Enter PIN	Enter the PIN specified in the driver when the confidential job was sent to the printer.
Enter PIN to lock	Enter the correct PIN number to lock the operator panel and prevent menu changes.
Flushing buffer	Wait for the message to clear.
Formatting Disk yyy% DO NOT POWER OFF	<b>Warning:</b> Do not turn the printer off while this message is displayed. The printer is formatting the hard disk. The percent complete is displayed. Wait for the message to clear.
Formatting Flash DO NOT POWER OFF	<b>Warning:</b> Do not turn the printer off while this message is displayed. Wait for the message to clear.
Insert Tray <x>	Insert the specified tray.
Internal System Error Reload Bookmarks	<ul style="list-style-type: none"> <li>• Reload the Bookmarks.</li> <li>• Press ▼ until ✓ <b>Continue</b> appears, and then press ⏏ to clear the message and continue printing.</li> </ul>
Internal System Error, Reload Security Certificates	<ul style="list-style-type: none"> <li>• Reload the Security Certificates.</li> <li>• Press ▼ until ✓ <b>Continue</b> appears, and then press ⏏ to clear the message and continue printing.</li> </ul>
Invalid Network Code	Download valid code to the MarkNet N8000 Series internal print server. <b>Note:</b> Network code may be downloaded while this message is displayed.
Invalid Engine Code	Download valid engine code to the printer. <b>Note:</b> Engine code may be downloaded while this message is displayed.
Invalid PIN	Enter the correct PIN.
Load Manual feeder with <Custom Type Name>	<ul style="list-style-type: none"> <li>• Load the specified media in the manual feed slot or multipurpose feeder.</li> <li>• Press ▼ until ✓ <b>Continue</b> appears, and then press ⏏ to ignore the manual feed request and print on media already installed in one of the sources.</li> </ul> <p>If the printer finds a tray that has media of the correct type and size, it feeds media from that tray. If the printer cannot find a tray with the correct media type and size, it prints on whatever media is installed in the default source.</p> <ul style="list-style-type: none"> <li>• Cancel the current job.</li> </ul>
Load Manual feeder with <Custom String>	
Load Manual feeder with <size>	
Load Manual feeder with <size> <type>	

## Understanding printer messages


























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Message	Action
Load <src> with <Custom Type Name>	<ul style="list-style-type: none"> <li>• Load the source with the correct type and size media.</li> <li>• Cancel the current job.</li> </ul>
Load <src> with <Custom String>	
Load <src> with <size>	
Load <src> with <type> <size>	
Menus are Disabled	<p>The printer menus are disabled. The printer settings cannot be changed from the operator panel.</p> <p><b>Note:</b> It is possible to cancel a job, print a confidential job, or print a held job.</p> <p>Contact your system support person.</p>
Network	A network interface is the active communication link.
Network <x>	
No held jobs	Wait for the message to clear.
No jobs found	<p><b>Note:</b> The four-digit personal identification number (PIN) entered is not associated with any confidential print job.</p> <ul style="list-style-type: none"> <li>• Press ▼ until ✓ <b>Try again</b> appears, and then press ⏵ to enter another PIN.</li> <li>• Press ▼ until ✓ <b>Cancel</b> appears, and then press ⏵ to exit the <b>Enter PIN</b> screen.</li> </ul>
No jobs to cancel	Wait for the message to clear.
Parallel	A parallel interface is the active communication link.
Parallel <x>	
Power Saver	<ul style="list-style-type: none"> <li>• Send a job to print.</li> <li>• Press ⏵ to warm the printer to normal operating temperature and display the <b>Ready</b> message.</li> </ul>
Printer locked, enter PIN to unlock	<p>The operator panel is locked.</p> <p>Enter the correct PIN number to unlock it.</p>
Printing	Wait for the message to clear.
Programming Disk DO NOT POWER OFF	<p><b>Warning:</b> Do not turn the printer off while this message is displayed.</p> <p>Wait for the message to clear.</p>
Programming Flash DO NOT POWER OFF	<p><b>Warning:</b> Do not turn the printer off while this message is displayed.</p> <p>Wait for the message to clear.</p>
Programming System Code DO NOT POWER OFF	<p><b>Warning:</b> Do not turn the printer off while this message is displayed.</p> <p>Wait for the message to clear and the printer to reset.</p>
Ready	Send a job to print.
Remote Management Active DO NOT POWER OFF	<p>The printer settings are being configured, and the printer was taken offline to ensure it is not currently printing and processing jobs.</p> <p><b>Warning:</b> Do not turn the printer off while this message is displayed.</p> <p>Wait for the message to clear.</p>

## Understanding printer messages

Message	Action
Remove all color supplies	<p>The printer is set to Black Only mode in the <b>CONFIG MENU</b> in the Print Mode menu item.</p> <ul style="list-style-type: none"> <li>Remove all color toner cartridges and color photoconductor units.</li> <li>Press <b>▼</b> until <b>✓ Continue</b> appears, and then press <b>⏏</b> to clear the message and print in Black Only mode.</li> <li>Cancel the current job.</li> <li>See the <i>User's Guide</i> for more information.</li> </ul>
Remove paper from standard output bin	Remove the media from the standard bin.
Resetting Fuser Count	Wait for the message to clear.
Resetting the Printer	Wait for the message to clear.
Restore Held Jobs?	<ul style="list-style-type: none"> <li>Press <b>▼</b> until <b>✓ Continue</b> appears, and then press <b>⏏</b> to restore all Print and Hold jobs on the hard disk.</li> <li>Press <b>▼</b> until <b>✓ Do not restore</b> appears, and then press <b>⏏</b> to delete Print and Hold jobs.</li> </ul>
Restoring Factory Defaults	<p>Wait for the message to clear.</p> <p><b>Note:</b> When factory default settings are restored:</p> <ul style="list-style-type: none"> <li>All downloaded resources (fonts, macros, symbol sets) in the printer memory are deleted.</li> <li>All menu settings return to the factory default setting <i>except</i>: <ul style="list-style-type: none"> <li>The Display Language setting in the "Setup" Menu.</li> <li>All settings in the "Parallel" Menu, "Serial" Menu, "Network" Menu, "Infrared" Menu, "LocalTalk" Menu, "USB" Menu, and "Fax" Menu.</li> </ul> </li> </ul>
Restoring Held Job(s) x/y	<ul style="list-style-type: none"> <li>Wait for the message to clear.</li> <li>Press <b>▼</b> until <b>✓ Quit restoring</b> appears, and then press <b>⏏</b> to delete unrestored Print and Hold jobs.</li> </ul> <p><b>Note:</b> <b>x</b> represents the number of the job being restored, and <b>y</b> represents the total number of jobs to be restored.</p>
Serial <x>	A serial interface is the active communication link.
Setup Required	Remove the packing material from the printer. Make sure all supplies, the fuser, the transfer belt, and the trays are installed correctly.
Some held jobs were lost	<ul style="list-style-type: none"> <li>Press <b>▼</b> until <b>✓ Continue</b> appears, and then press <b>⏏</b> to clear the message and continue printing.</li> </ul> <p>The printer frees memory by deleting the oldest held job and continues deleting held jobs until there is enough printer memory to process the job.</p> <ul style="list-style-type: none"> <li>Cancel the current job.</li> </ul>
Standard Bin Full	Remove the stack of media from the bin to clear the message.
Submitting selection	Wait for the message to clear.
Tray <x> Empty	Load media in the tray to clear the message.
Tray <x> Low	Add media to the tray to clear the message.
Tray <x> Missing	Insert the tray.
USB	The printer is processing data through the specified USB port.
USB <x>	
View supplies	Displays the current level of all printer supplies.

## Understanding printer messages

Message	Action
Waiting	<p>The printer has received a page of data to print, but is waiting for an End of Job command, a Form Feed command, or additional data.</p> <ul style="list-style-type: none"> <li>• Press  to print the contents of the buffer.</li> <li>• Cancel the current job.</li> </ul>
1565 Emul Error Load Emul Option	<p>The printer automatically clears the message in 30 seconds, and then disables the download emulator on the firmware card.</p> <p>Download the correct download emulator version from the Lexmark Web site.</p>
31 Missing or defective <color> cartridge	<p>Remove the specified toner cartridge, and then place it in the correct position.</p>
32 Replace unsupported <color> cartridge	<p>Remove the toner cartridge, and install a supported one.</p>
34 Incorrect media	<ul style="list-style-type: none"> <li>• Load the appropriate media in the selected source.</li> <li>• Press  until  <b>Continue</b> appears, and then press  to clear the message and print the job using a different paper source.</li> </ul>
34 Short Paper	<ul style="list-style-type: none"> <li>• Press  until  <b>Continue</b> appears, and then press  to clear the message and continue printing.</li> </ul> <p>The printer does not automatically reprint the page that prompted the message.</p> <ul style="list-style-type: none"> <li>• Check tray length and width guides to ensure media is properly fitted.</li> <li>• Make sure the print job is requesting the correct size of media.</li> <li>• Adjust the Paper Size setting for the size media being used.</li> </ul> <p>If MP Feeder Size is set to Universal, make sure the media is large enough for the formatted data.</p> <ul style="list-style-type: none"> <li>• Cancel the current job.</li> </ul>
35 Insufficient memory to support Resource Save feature	<ul style="list-style-type: none"> <li>• Press  until  <b>Continue</b> appears, and then press  to disable Resource Save and continue printing.</li> <li>• To enable Resource Save after receiving this message: <ul style="list-style-type: none"> <li>– Make sure the link buffers are set to Auto, then exit the menus to activate the link buffer changes.</li> <li>– When <b>Ready</b> is displayed, enable Resource Save.</li> </ul> </li> <li>• Install additional memory.</li> </ul>
37 Insufficient memory to collate job	<ul style="list-style-type: none"> <li>• Press  until  <b>Continue</b> appears, and then press  to print the portion of the job already stored and begin collating the rest of the job.</li> <li>• Cancel the current job.</li> </ul>
37 Insufficient memory for Flash Memory Defragment operation	<ul style="list-style-type: none"> <li>• Press  until  <b>Continue</b> appears, and then press  to stop the defragment operation and continue printing.</li> <li>• Delete fonts, macros, and other data in printer memory.</li> <li>• Install additional printer memory.</li> </ul>
37 Insufficient memory, some held jobs were deleted	<p>The printer deleted some held jobs in order to process current jobs.</p> <p>Press  until  <b>Continue</b> appears, and then press  to clear the message.</p>
37 Insufficient memory, some held jobs were lost	<p>The printer was unable to restore some or all of the confidential or held jobs on the hard disk.</p> <p>Press  until  <b>Continue</b> appears, and then press  to clear the message.</p>
38 Memory Full	<ul style="list-style-type: none"> <li>• Press  until  <b>Continue</b> appears, and then press  to clear the message and continue printing.</li> </ul> <p>The job may not print correctly.</p> <ul style="list-style-type: none"> <li>• Cancel the current job.</li> <li>• Install additional printer memory.</li> </ul>

## Understanding printer messages

Message	Action
39 Page is too complex to print	<ul style="list-style-type: none"> <li>• Press ▼ until ✓ Continue appears, and then press ⏏ to clear the message and continue printing. The job may not print correctly.</li> <li>• Cancel the current job.</li> <li>• Install additional printer memory.</li> </ul>
50 PPDS font error	<ul style="list-style-type: none"> <li>• Press ▼ until ✓ Continue appears, and then press ⏏ to clear the message and continue printing. The job may not print correctly.</li> <li>• Cancel the current job.</li> </ul>
51 Defective flash detected	<p>Press ▼ until ✓ Continue appears, and then press ⏏ to clear the message and continue printing.</p> <p>Install different flash memory before downloading any resources to flash.</p>
52 Not enough free space in flash memory for resources	<ul style="list-style-type: none"> <li>• Press ▼ until ✓ Continue appears, and then press ⏏ to clear the message and continue printing. Downloaded fonts and macros not previously stored in flash memory are deleted.</li> <li>• Delete fonts, macros, and other data stored on the flash memory.</li> <li>• Install a larger capacity flash memory card.</li> </ul>
53 Unformatted flash detected	<p>Press ▼ until ✓ Continue appears, and then press ⏏ to clear the message and continue printing.</p> <p>Format the flash memory before storing any resources on it. If the error message remains, the flash memory may be defective and require replacing.</p>
54 Serial option <x> error	<ul style="list-style-type: none"> <li>• Make sure the serial link is set up correctly, and the appropriate cable is in use.</li> <li>• Make sure the serial interface parameters (protocol, baud, parity, and data bits) are set correctly on the printer and host computer.</li> <li>• Press ▼ until ✓ Continue appears, and then press ⏏ to clear the message and continue printing. The job may not print correctly.</li> <li>• Turn the printer off and then on to reset the printer.</li> </ul>
54 Network <x> software error	<ul style="list-style-type: none"> <li>• Press ▼ until ✓ Continue appears, and then press ⏏ to clear the message and continue printing. The job may not print correctly.</li> <li>• Program new firmware for the network interface.</li> <li>• Reset the printer.</li> </ul>
54 Standard network software error	
55 Unsupported option in slot <x>	<ol style="list-style-type: none"> <li>1 Turn the printer off.</li> <li>2 Unplug the power cord from the wall outlet.</li> <li>3 Remove the unsupported option.</li> <li>4 Connect the power cord to a properly grounded outlet.</li> <li>5 Turn the printer on.</li> </ol>
56 Parallel port <x> disabled	<ul style="list-style-type: none"> <li>• Press ▼ until ✓ Continue appears, and then press ⏏ to clear the message. The printer discards any data received through the parallel port.</li> <li>• Make sure the Parallel Buffer menu item is not set to Disabled.</li> </ul>
56 Standard parallel port disabled	
56 Serial port <x> disabled	<ul style="list-style-type: none"> <li>• Press ▼ until ✓ Continue appears, and then press ⏏ to clear the message. The printer discards any data received through the serial port.</li> <li>• Make sure the Serial Buffer menu item is not set to Disabled.</li> </ul>

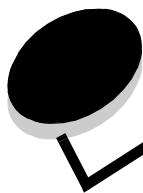


## Understanding printer messages

Message	Action
56 Standard USB port disabled	<ul style="list-style-type: none"> <li>• Press ▼ until ✓ Continue appears, and then press ⏏ to clear the message. The printer discards any data received through the USB port.</li> <li>• Make sure the USB Buffer menu item is not set to Disabled.</li> </ul>
58 Too many flash options installed	<ol style="list-style-type: none"> <li>1 Turn off and unplug the printer.</li> <li>2 Remove the excess flash memory.</li> <li>3 Plug in the printer, and turn it on.</li> </ol>
58 Too many trays attached	<ol style="list-style-type: none"> <li>1 Turn off and unplug the printer.</li> <li>2 Remove the additional drawers.</li> <li>3 Plug in the printer, and turn it on.</li> </ol>
61 Remove defective disk	<ul style="list-style-type: none"> <li>• Press ▼ until ✓ Continue appears, and then press ⏏ to clear the message and continue printing.</li> <li>• Install a different hard disk before performing any operations that require a hard disk.</li> </ul>
62 Disk full	<ul style="list-style-type: none"> <li>• Press ▼ until ✓ Continue appears, and then press ⏏ to clear the message and continue processing. Any information not previously stored on the hard disk is deleted.</li> <li>• Delete fonts, macros, and other data stored on the hard disk.</li> <li>• Install a larger hard disk.</li> </ul>
63 Unformatted disk	<ul style="list-style-type: none"> <li>• Press ▼ until ✓ Continue appears, and then press ⏏ to clear the message and continue printing.</li> <li>• Format the disk. If the error message remains, the hard disk may be defective and require replacing.</li> </ul>
64 Unsupported disk format	<ul style="list-style-type: none"> <li>• Press ▼ until ✓ Continue appears, and then press ⏏ to clear the message and continue printing.</li> <li>• Format the disk. If the error message remains, the hard disk may be defective and require replacing.</li> </ul>
80 Fuser life warning	<ul style="list-style-type: none"> <li>• Press ▼ until ✓ Continue appears, and then press ⏏ to clear the message and continue printing.</li> <li>• Order a replacement fuser. When print quality is reduced, install the new fuser using the instruction sheet that comes with the replacement fuser.</li> </ul>
80 Replace fuser	Replace the fuser using the instruction sheet that comes with the replacement fuser.
82 Waste toner box nearly full	<ul style="list-style-type: none"> <li>• Press ▼ until ✓ Continue appears, and then press ⏏ to clear the message and continue printing.</li> <li>• Order a replacement waste toner box immediately.</li> </ul>
82 Replace waste toner box	Replace the waste toner box using the instruction sheet that comes with the replacement waste toner box.
82 Waste toner box missing	Insert the waste toner box.
83 Transfer belt missing	Insert the transfer belt.
83 Transfer belt life warning	<ul style="list-style-type: none"> <li>• Press ▼ until ✓ Continue appears, and then press ⏏ to clear the message and continue printing.</li> <li>• Order a replacement transfer belt. When print quality is reduced, install the new transfer belt using the instruction sheet that comes with the replacement transfer belt.</li> </ul>

## Understanding printer messages

Message	Action
83 Replace transfer belt	Replace the transfer belt using the instruction sheet that comes with the replacement transfer belt. Reset the printer internal counter for the transfer belt.
84 <color> PC Unit life warning	<ul style="list-style-type: none"> <li>• Press ▼ until ✓ Ignore appears, and then press ⏏ to clear the message and continue printing.</li> <li>• Order the specified photoconductor unit. When print quality is reduced, install the new specified photoconductor unit using the instruction sheet that comes with the replacement specified photoconductor unit.</li> </ul>
84 Replace <color> PC Unit	Replace the specified photoconductor unit using the instruction sheet that comes with the replacement photoconductor unit.
84 <color> PC Unit missing	Insert the specified photoconductor unit.
87 Fuser missing	Insert the fuser.
88 <color> Cartridge low	<ul style="list-style-type: none"> <li>• Replace the specified toner cartridge.</li> <li>• Press ▼ until ✓ Continue appears, and then press ⏏ to clear the message and continue printing.</li> </ul>
88 Replace <color> cartridge	<ul style="list-style-type: none"> <li>• Replace the specified toner cartridge.</li> <li>• Press ▼ until ✓ Continue appears, and then press ⏏ to clear the message and continue printing.</li> </ul>
200.yy Paper jam 201.yy Paper jam 202.yy Paper jam 203.yy Paper jam 230.yy Paper jam 241.yy Paper jam 242.yy Paper jam 250.yy Paper jam	<ol style="list-style-type: none"> <li>1 Clear the paper path.</li> <li>2 After clearing the paper path, press ⏏ to resume printing.</li> </ol>
900-999 Service <message>	<ol style="list-style-type: none"> <li>1 Turn the printer off.</li> <li>2 Unplug the power cord from the wall outlet.</li> <li>3 Check all cable connections.</li> <li>4 Connect the power cord to a properly grounded outlet.</li> <li>5 Turn the printer back on.</li> </ol> <p>If the service message recurs, call for service, and report the message number and description of the problem.</p>



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