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User's Guide

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Contents

Safety information.....	13
Learning about the printer.....	15
Finding information about the printer.....	15
Printer configurations.....	16
Selecting a location for the printer.....	16
Basic functions of the scanner.....	17
Understanding the ADF and scanner glass.....	18
Understanding the printer control panel.....	19
Understanding the home screen.....	20
Using the touch-screen buttons.....	22
Additional printer setup.....	26
Installing internal options.....	26
Available internal options.....	26
Accessing the system board to install internal options.....	27
Installing a memory card	29
Installing a flash memory or firmware card.....	30
Installing an Internal Solutions Port.....	33
Installing a printer hard disk	39
Installing a fax card	43
Attaching cables.....	45
Verifying printer setup.....	46
Printing a menu settings page.....	46
Printing a network setup page	47
Setting up the printer software.....	47
Installing printer software	47
Updating available options in the printer driver.....	48
Setting up wireless printing.....	49
Information you will need to set up the printer on a wireless network.....	49
Installing the printer on a wireless network (Windows)	50
Installing the printer on a wireless network (Macintosh)	51
Installing the printer on a wired network.....	54
Changing port settings after installing a new network Internal Solutions Port.....	57
Setting up serial printing.....	59
Setting up the printer to fax.....	61
Choosing a fax connection.....	61

Using an RJ11 adapter	61
Connecting directly to a telephone wall jack in Germany	65
Connecting to a telephone	66
Connecting to an answering machine.....	67
Connecting to a computer with a modem.....	69
Setting the outgoing fax name and number.....	70
Setting the date and time.....	70
Turning Daylight Saving Time on	71

Loading paper and specialty media.....72

Setting the Paper Size and Paper Type.....	72
Configuring Universal paper settings.....	72
Loading the standard or optional 250-sheet or 550-sheet tray.....	73
Loading the 2000-sheet tray.....	76
Loading the multipurpose feeder.....	80
Loading the envelope feeder.....	82
Linking and unlinking trays.....	83
Linking trays.....	83
Unlinking trays	84
Assigning a custom paper type name.....	84
Changing a Custom Type <x> name	84

Paper and specialty media guidelines.....86

Paper guidelines.....	86
Paper characteristics.....	86
Unacceptable paper	87
Selecting paper.....	87
Selecting preprinted forms and letterhead.....	87
Using recycled paper and other office papers	88
Storing paper.....	88
Supported paper sizes, types, and weights.....	89
Paper sizes supported by the printer	89
Paper types and weights supported by the printer	91
Paper types and weights supported by the finisher	91

Copying.....93

Making copies.....	93
Making a quick copy	93
Copying using the ADF.....	93
Copying using the scanner glass	94
Copying photos.....	94
Copying on specialty media.....	94

Making transparencies.....	94
Copying to letterhead	95
Customizing copy settings.....	95
Copying from one size to another.....	95
Making copies using paper from a selected tray	96
Copying a document that contains mixed paper sizes.....	96
Copying on both sides of the paper (duplexing)	97
Reducing or enlarging copies	97
Adjusting copy quality.....	98
Collating copies.....	98
Placing separator sheets between copies	99
Copying multiple pages onto a single sheet	99
Creating a custom job (job build)	100
Job interrupt.....	101
Placing information on copies.....	101
Placing the date and time at the top of each page	101
Placing an overlay message on each page.....	101
Canceling a copy job.....	102
Canceling a copy job while the document is in the ADF	102
Canceling a copy job while copying pages using the scanner glass	102
Canceling a copy job while the pages are being printed	102
Understanding the copy screens and options.....	102
Copy from	102
Copy to	102
Scale.....	103
Darkness.....	103
Content.....	103
Sides (Duplex)	103
Collate	103
Options	103
Improving copy quality.....	105

E-mailing.....106

Getting ready to e-mail.....	106
Setting up the e-mail function	106
Configuring the e-mail settings.....	107
Creating an e-mail shortcut.....	107
Creating an e-mail shortcut using the Embedded Web Server	107
Creating an e-mail shortcut using the touch screen.....	107
E-mailing a document.....	108
Sending an e-mail using the touch screen.....	108
Sending an e-mail using a shortcut number	108
Sending an e-mail using the address book	108

Customizing e-mail settings.....	109
Adding e-mail subject and message information.....	109
Changing the output file type.....	109
Canceling an e-mail.....	110
Understanding e-mail options.....	110
Original Size	110
Sides (Duplex)	110
Orientation	110
Binding	110
E-mail Subject	110
E-mail File Name.....	110
E-mail Message.....	111
Resolution.....	111
Send As	111
Content.....	111
Advanced Options.....	111

Faxing.....112

Sending a fax.....	112
Sending a fax using the printer control panel.....	112
Sending a fax using the computer	113
Creating shortcuts.....	113
Creating a fax destination shortcut using the Embedded Web Server.....	113
Creating a fax destination shortcut using the touch screen.....	114
Using shortcuts and the address book.....	114
Using fax shortcuts.....	114
Using the address book.....	114
Customizing fax settings.....	115
Changing the fax resolution	115
Making a fax lighter or darker	115
Sending a fax at a scheduled time.....	116
Viewing a fax log.....	116
Blocking junk faxes.....	116
Canceling an outgoing fax.....	117
Canceling a fax while the original documents are still scanning	117
Canceling a fax after the original documents have been scanned to memory	117
Understanding fax options.....	117
Original Size	117
Content.....	117
Sides (Duplex)	118
Resolution.....	118
Darkness.....	118
Advanced Options.....	118

Improving fax quality.....	119
Holding and forwarding faxes.....	119
Holding faxes.....	119
Forwarding a fax	120

Scanning to an FTP address.....121

Scanning to an FTP address.....	121
Scanning to an FTP address using the keypad	121
Scanning to an FTP address using a shortcut number.....	122
Scanning to an FTP address using the address book	122
Creating shortcuts.....	122
Creating an FTP shortcut using the Embedded Web Server.....	122
Creating an FTP shortcut using the touch screen.....	123
Understanding FTP options.....	123
Original Size	123
Sides (Duplex)	123
Orientation	123
Binding	123
Resolution.....	123
Send As	124
Content.....	124
Advanced Options.....	124
Improving FTP quality.....	125

Scanning to a computer or flash drive.....126

Scanning to a computer.....	126
Scanning to a flash drive.....	127
Understanding scan profile options.....	127
Quick Setup.....	127
Format Type.....	128
Compression.....	128
Default Content	128
Color	128
Original Size	128
Orientation	128
Sides (Duplex)	128
Darkness.....	128
Resolution.....	129
Advanced Imaging	129
Improving scan quality.....	129

Printing.....	130
Printing a document.....	130
Printing on specialty media.....	130
Tips on using letterhead.....	130
Tips on using transparencies	131
Tips on using envelopes.....	131
Tips on using labels.....	132
Tips on using card stock.....	132
Printing confidential and other held jobs.....	133
Holding jobs in the printer	133
Printing confidential and other held jobs from Windows	134
Printing confidential and other held jobs from a Macintosh computer.....	134
Printing from a flash drive.....	135
Printing information pages.....	136
Printing a directory list.....	136
Printing the print quality test pages	136
Canceling a print job.....	136
Canceling a print job from the printer control panel	136
Canceling a print job from the computer	137
 Clearing jams.....	 139
Avoiding jams.....	139
Understanding jam numbers and locations.....	140
200 and 201 paper jams.....	140
202 paper jam.....	142
230–239 paper jams.....	143
240–249 paper jams.....	144
250 paper jam.....	145
260 paper jam.....	146
270–279 paper jams.....	146
280–282 paper jams.....	146
283 staple jams.....	147
290–294 paper jams.....	149
 Understanding printer menus.....	 151
Menus list.....	151
Paper menu.....	152
Default Source menu.....	152
Paper Size/Type menu	152

Configure MP menu.....	155
Envelope Enhance	156
Substitute Size menu.....	156
Paper Texture menu	156
Paper Weight menu	158
Paper Loading menu	160
Custom Types menu.....	161
Custom Names menu.....	161
Custom Scan Sizes menu	162
Custom Bin Names menu	162
Universal Setup menu	162
Bin Setup menu	163
Reports menu.....	164
Network/Ports menu.....	166
Active NIC menu.....	166
Standard Network or Network <x> menus	166
SMTP Setup menu	168
Network Reports menu	168
Network Card menu.....	169
TCP/IP menu	169
IPv6 menu.....	170
Wireless menu.....	171
AppleTalk menu	171
NetWare menu.....	172
LexLink menu	173
Standard USB menu.....	173
Parallel <x> menu.....	175
Serial <x> menu	177
Security menu.....	179
Miscellaneous menu.....	179
Confidential Print menu	180
Disk Wiping menu	181
Security Audit Log menu	182
Set Date/Time menu.....	183
Settings menu.....	183
General Settings menu	183
Copy Settings menu	191
Fax Settings menu.....	196
E-mail Settings menu	205
FTP Settings menu.....	210
Flash Drive menu	213
Print Settings	218
Help menu.....	229

Understanding printer messages.....	231
List of status and error messages.....	231
Maintaining the printer.....	249
Cleaning the exterior of the printer.....	249
Cleaning the scanner glass.....	249
Adjusting scanner registration.....	250
Storing supplies.....	252
Conserving supplies.....	252
Checking the status of supplies.....	252
Checking the status of supplies from the printer control panel.....	252
Checking the status of supplies from a network computer	252
Ordering supplies.....	253
Ordering print cartridges	253
Ordering a maintenance kit	254
Ordering a fuser.....	255
Ordering an ADF maintenance kit.....	255
Ordering a transfer roller.....	255
Ordering charge rolls.....	255
Ordering pick rollers	255
Ordering ADF replacement parts.....	256
Ordering staple cartridges.....	256
Recycling Lexmark products.....	256
Moving the printer.....	256
Before moving the printer	256
Moving the printer to another location.....	257
Setting the printer up in a new location	257
Shipping the printer	258
Administrative support.....	259
Finding advanced networking and administrator information.....	259
Using the Embedded Web Server.....	259
Checking the device status.....	259
Setting up e-mail alerts.....	259
Viewing reports.....	260
Adjusting the brightness of the display.....	260
Adjusting Power Saver.....	261
Restoring the factory default settings.....	261

Troubleshooting.....	263
Solving basic printer problems.....	263
Printer control panel display is blank or displays only diamonds.....	263
Solving printing problems.....	263
Multiple-language PDFs do not print.....	263
Error message about reading USB drive appears.....	263
Jobs do not print.....	264
Confidential and other held jobs do not print	264
Job takes longer than expected to print	265
Job prints from the wrong tray or on the wrong paper	265
Incorrect characters print.....	265
Tray linking does not work.....	266
Large jobs do not collate	266
Unexpected page breaks occur.....	266
Solving copy problems.....	267
Copier does not respond	267
Scanner unit does not close.....	267
Poor copy quality	267
Partial document or photo copies.....	269
Solving scanner problems.....	269
Checking an unresponsive scanner	269
Scan was not successful	269
Scanning takes too long or freezes the computer.....	270
Poor scanned image quality	270
Partial document or photo scans	270
Cannot scan from a computer	271
Solving fax problems.....	271
Caller ID is not shown.....	271
Cannot send or receive a fax.....	271
Can send but not receive faxes.....	273
Can receive but not send faxes.....	274
Received fax has poor print quality.....	274
Solving option problems.....	275
Option does not operate correctly or quits after it is installed	275
Paper trays.....	275
2000-sheet tray.....	276
Envelope feeder	276
Output options	277
Flash memory card.....	277
Hard disk with adapter.....	277
Internal Solutions Port	277
Memory card	277

Solving paper feed problems.....	278
Paper frequently jams	278
Paper jam message remains after jam is cleared	278
Page that jammed does not reprint after you clear the jam.....	278
Solving print quality problems.....	279
Isolating print quality problems	279
Blank pages	279
Characters have jagged or uneven edges	280
Clipped images.....	280
Ghost images.....	280
Gray background	281
Incorrect margins.....	281
Paper curl.....	282
Print irregularities	282
Repeating defects.....	283
Skewed print.....	284
Solid black or white streaks.....	284
Print is too light	285
Print is too dark.....	286
Solid color pages.....	287
Streaked vertical lines	287
Toner fog or background shading appears on the page	288
Toner rubs off	288
Toner specks.....	289
Transparency print quality is poor.....	289
Embedded Web Server does not open.....	289
Check the network connections	289
Check the network settings	290
Contacting Customer Support.....	290

Notices.....291

Edition notice.....	291
Industry Canada notices.....	293
Power consumption.....	301

Index.....308

Safety information

Connect the power cord to a properly grounded electrical outlet that is near the product and easily accessible.

Do not place or use this product near water or wet locations.

 **CAUTION—POTENTIAL INJURY:** This product uses a laser. Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

This product uses a printing process that heats the print media, and the heat may cause the media to release emissions. You must understand the section in your operating instructions that discusses the guidelines for selecting print media to avoid the possibility of harmful emissions.

Use care when you replace a lithium battery.

 **CAUTION—POTENTIAL INJURY:** There is a danger of explosion if a lithium battery is incorrectly replaced. Replace it only with the same or an equivalent type of lithium battery. Do not recharge, disassemble, or incinerate a lithium battery. Discard used batteries according to the manufacturer's instructions and local regulations.

 **CAUTION—HOT SURFACE:** The inside of the printer might be hot. To reduce the risk of injury from a hot component, allow the surface to cool before touching.

 **CAUTION—POTENTIAL INJURY:** The printer weight is greater than 18 kg (40 lb) and requires two or more trained personnel to move it safely.

 **CAUTION—POTENTIAL INJURY:** Before moving the printer, follow these guidelines to avoid personal injury or printer damage:

- Turn the printer off using the power switch, and then unplug the power cord from the wall outlet.
- Disconnect all cords and cables from the printer before moving it.
- Lift the printer off of the optional drawer and set it aside instead of trying to lift the drawer and printer at the same time.

Note: Use the handholds located on both sides of the printer to lift it off the optional drawer.

Use only the power cord provided with this product or the manufacturer's authorized replacement.

Use only the telecommunications (RJ-11) cord provided with this product or a 26 AWG or larger replacement when connecting this product to the public switched telephone network.

 **CAUTION—SHOCK HAZARD:** If you are accessing the system board or installing optional hardware or memory devices sometime after setting up the printer, then turn the printer off, and unplug the power cord from the wall outlet before continuing. If you have any other devices attached to the printer, then turn them off as well, and unplug any cables going into the printer.

 **CAUTION—SHOCK HAZARD:** Make sure that all external connections (such as Ethernet and telephone system connections) are properly installed in their marked plug-in ports.

This product is designed, tested, and approved to meet strict global safety standards with the use of specific manufacturer's components. The safety features of some parts may not always be obvious. The manufacturer is not responsible for the use of other replacement parts.

 **CAUTION—POTENTIAL INJURY:** Do not twist, bind, crush, or place heavy objects on the power cord. Do not subject the power cord to abrasion or stress. Do not pinch the power cord between objects such as furniture and walls. If the power cord is misused, a risk of fire or electrical shock results. Inspect the power cord regularly for signs of misuse. Remove the power cord from the electrical outlet before inspecting it.

Refer service or repairs, other than those described in the user documentation, to a professional service person.



CAUTION—SHOCK HAZARD: To avoid the risk of electric shock when cleaning the exterior of the printer, unplug the power cord from the wall outlet and disconnect all cables from the printer before proceeding.



CAUTION—SHOCK HAZARD: Do not use the fax feature during a lightning storm. Do not set up this product or make any electrical or cabling connections, such as the fax feature, power cord, or telephone, during a lightning storm.



CAUTION—TIPPING HAZARD: Floor-mounted configurations require additional furniture for stability. You must use either a printer stand or printer base if you are using a high-capacity input tray, a duplex unit and an input option, or more than one input option. If you purchased a multifunction printer (MFP) that scans, copies, and faxes, you may need additional furniture. For more information, see www.lexmark.com/multifunctionprinters.

SAVE THESE INSTRUCTIONS.

Learning about the printer

Finding information about the printer

Setup information

Description	Where to find
The <i>Setup</i> information gives you instructions for setting up the printer. Follow the set of instructions for local, network, or wireless, depending on what you need.	You can find the <i>Setup</i> information on the side of the printer box or on the Lexmark Web site at www.lexmark.com .

Help

Description	Where to find
The Help gives you instructions for using the software.	While in any Lexmark software program, click Help, Tips → Help , or Help → Help Topics .

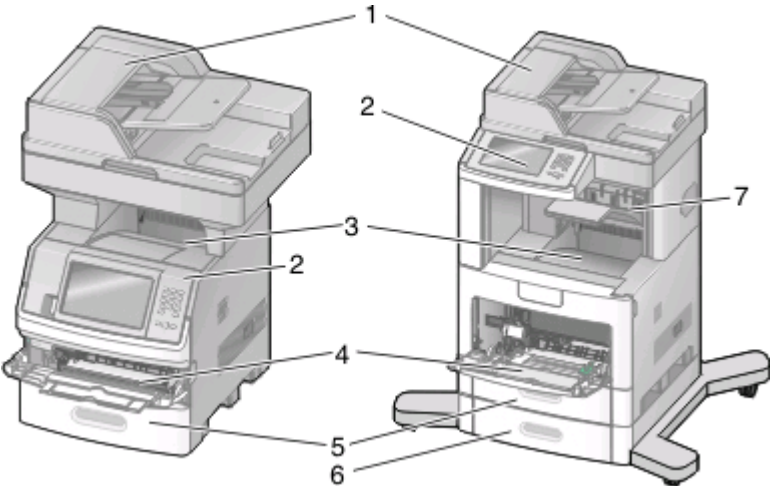
Customer support

Description	Where to find (North America)	Where to find (rest of world)
Telephone support	Call us at • US: 1-800-332-4120 Monday–Friday (8:00 AM–11:00 PM ET) Saturday (Noon–6:00 PM ET) • Canada: 1-800-539-6275 Monday–Friday (8:00 AM–11:00 PM ET) Saturday (Noon–6:00 PM ET) • Mexico: 001-888-377-0063 Monday–Friday (8:00 AM–8:00 PM ET) Note: Telephone numbers and support times may change without notice. For the most recent telephone numbers available, see the printed warranty statement that came with your printer.	Telephone numbers and support hours vary by country or region. Visit our Web site at www.lexmark.com. Select a country or region, and then select the Customer Support link. Note: For additional information about contacting Lexmark, see the printed warranty that came with your printer.
E-mail support	For e-mail support, visit our Web site: www.lexmark.com. 1 Click SUPPORT. 2 Click Technical Support. 3 Select your printer type. 4 Select your printer model. 5 From the Support Tools section, click e-Mail Support. 6 Complete the form, and then click Submit Request.	E-mail support varies by country or region, and may not be available in some instances. Visit our Web site at www.lexmark.com. Select a country or region, and then select the Customer Support link. Note: For additional information about contacting Lexmark, see the printed warranty that came with your printer.

Printer configurations

Note: Printer configuration may vary depending on your printer model.

Basic models

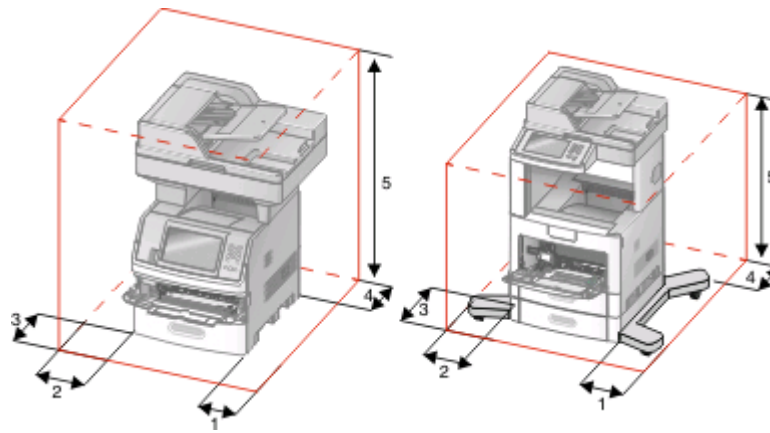


1	Automatic Document Feeder (ADF)
2	Printer control panel
3	Standard exit bin
4	Multipurpose feeder
5	550-sheet tray (Tray 1)
6	550-sheet tray (Tray 2)
7	Optional output bin

Selecting a location for the printer

When selecting a location for the printer, leave enough room to open trays, covers, and doors. If you plan to install any options, leave enough room for them also. It is important to:

- Make sure airflow in the room meets the latest revision of the ASHRAE 62 standard.
- Provide a flat, sturdy, and stable surface.
- Keep the printer:
 - Away from the direct airflow of air conditioners, heaters, or ventilators
 - Free from direct sunlight, humidity extremes, or temperature fluctuations
 - Clean, dry, and free of dust
- Allow the following recommended amount of space around the printer for proper ventilation:



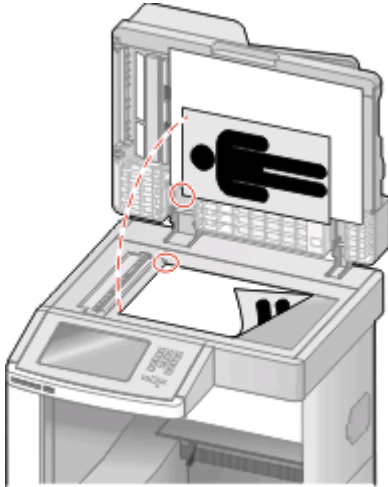
1	Right Side	20 cm (8 in.)
2	Left Side	31 cm (12 in.)
3	Front	51 cm (20 in.)
4	Rear	20 cm (8 in.)
5	Top	31 cm (12 in.)

Basic functions of the scanner

The scanner provides copy, fax, and scan-to-network capability for large workgroups. You can:

- Make quick copies, or change the settings on the printer control panel to perform specific copy jobs.
- Send a fax using the printer control panel.
- Send a fax to multiple fax destinations at the same time.
- Scan documents and send them to your computer, an e-mail address, a flash drive, or an FTP destination.
- Scan documents and send them to another printer (PDF by way of FTP).

Understanding the ADF and scanner glass

Automatic Document Feeder (ADF)	Scanner glass
 Use the ADF for multiple-page documents.	 Use the scanner glass for single pages, small items (such as postcards or photos), transparencies, photo paper, or thin media (such as magazine clippings or lightweight carbonless forms).

You can use the ADF or the scanner glass to scan documents.

Using the ADF

The Automatic Document Feeder (ADF) can scan multiple pages, including duplex pages. When using the ADF:

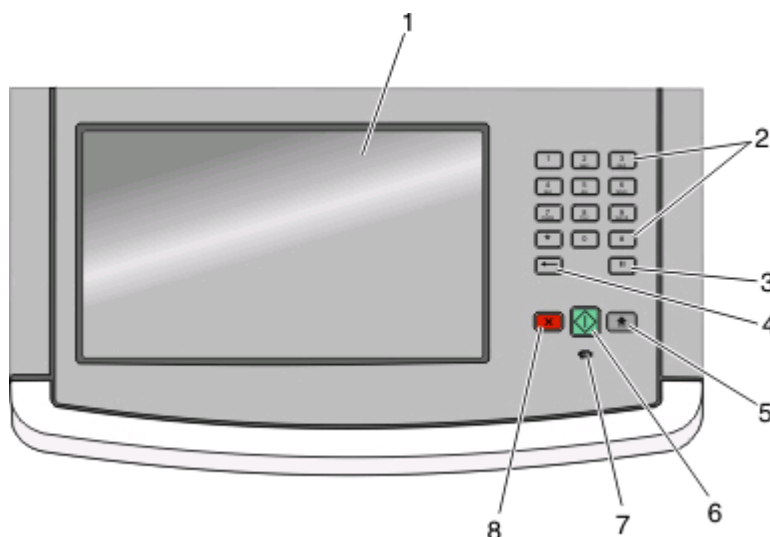
- Load the document into the ADF faceup, short edge first.
- Load up to 75 sheets of plain paper in the ADF input tray.
- Scan sizes from 76.2 x 139.4 mm (3.0 x 5.5 in.) to 215.9 x 355.6 mm (8.5 x 14 in.).
- Scan documents with mixed page sizes (letter and legal).
- Scan media weights from 52 to 120 g/m² (14 to 32 lb).
- Do not load postcards, photos, small items, transparencies, photo paper, or thin media (such as magazine clippings) into the ADF. Place these items on the scanner glass.

Using the scanner glass

The scanner glass can be used to scan or copy single pages or book pages. When using the scanner glass:

- Place a document facedown on the scanner glass in the upper left corner.
- Scan or copy documents up to 215.9 x 355.6 mm (8.5 x 14 in.).
- Copy books up to 25.3 mm (1 in.) thick.

Understanding the printer control panel

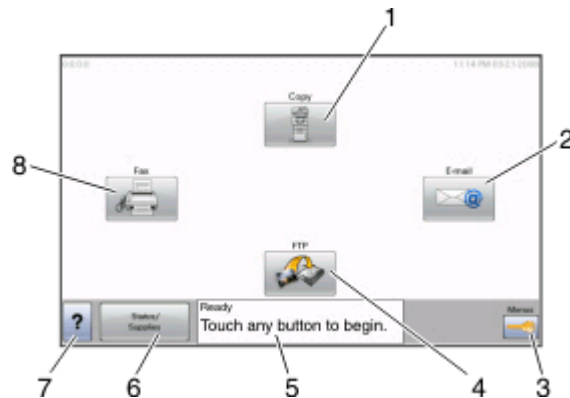


Item		Description
1	Display	View scanning, copying, faxing, and printing options as well as status and error messages.
2	Keypad 	Enter numbers or symbols on the display.
3	Dial Pause 	- Press  to cause a two- or three-second dial pause in a fax number. In the Fax To field, a Dial Pause is represented by a comma (,). - From the home screen, press  to redial a fax number. - The button functions only within the Fax menu or with fax functions. When outside of the Fax menu, fax function, or home screen, pressing  causes an error beep.
4	Back 	In the Copy menu, press  to delete the right-most digit of the value in the Copy Count. The default value of 1 appears if the entire number is deleted by pressing  numerous times. In the Fax Destination List, press  to delete the right-most digit of a number entered manually. You can also press  to delete an entire shortcut entry. Once an entire line is deleted, another press of  causes the cursor to move up one line. In the E-mail Destination List, press  to delete the character to the left of the cursor. If the character is in a shortcut, then the shortcut is deleted.
5	Home 	Press  to return to the home screen.

Item		Description
6	Start 	- Press  to initiate the current job indicated on the display. - From the home screen, press  to start a copy job with the default settings. - If pressed while a job is scanning, the button has no effect.
7	Indicator light	Indicates the printer status: Off—The power is off. Blinking green—The printer is warming up, processing data, or printing. Solid green—The printer is on, but idle. Blinking red—Operator intervention is needed.
8	Stop 	Stops all printer activity A list of options is offered once Stopped appears on the display.

Understanding the home screen

After the printer is turned on and a short warm-up period occurs, the display shows the following basic screen which is referred to as the home screen. Use the home screen buttons to initiate an action such as copying, faxing, or scanning; to open the menu screen; or to respond to messages.



Display item		Description
1	Copy	Opens the Copy menus Note: From the home screen, you can also access the Copy menus by pressing a number on the keypad.
2	E-mail	Opens the E-mail menus
3	Menus	Opens the menus. These menus are available only when the printer is in the Ready state.
4	FTP	Opens the File Transfer Protocol (FTP) menus Note: This function must be set up by your system support person. Once it is set up, it appears as a display item.

Display item		Description
5	Status message bar	- Shows the current printer status such as Ready or Busy. - Shows printer conditions such as Toner Low. - Shows intervention messages to give instructions on what you should do so the printer can continue processing, such as Close door or Insert print cartridge.
6	Status/Supplies	Appears on the display whenever the printer status includes a message requiring intervention. Touch it to access the messages screen for more information on the message, including how to clear it.
7	Tips	All menus have a Tips button. Tips is a context-sensitive Help feature within the display touch screens.
8	Fax	Opens the Fax menus

Other buttons that may appear on the home screen:

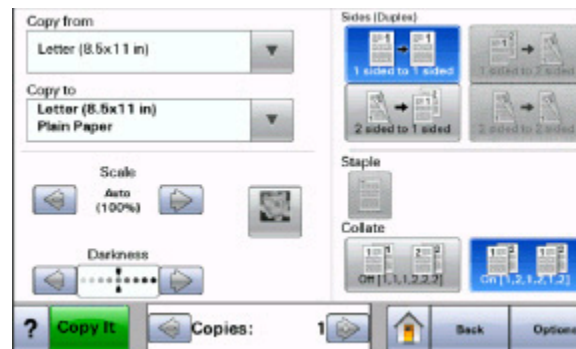
Display item	Function
Release Held Faxes	If this button is shown, then there are held faxes with a scheduled hold time previously set. To access the list of held faxes, touch this button.
Search Held Jobs	Searches on any of the following items and returns search results: - User names for held or confidential print jobs - Job names for held jobs, excluding confidential print jobs - Profile names - Bookmark container or job names - USB container or job names for supported extensions only
Held Jobs	Opens a screen containing all the held jobs
Lock Device	This button appears on the screen when the printer is unlocked and Device Lockout Personal Identification Number (PIN) has been set. Touching this button opens a PIN entry screen. Entering the correct PIN locks the printer control panel (touch screen and hard buttons).
Unlock Device	This button appears on the screen when the printer is locked. The printer control panel buttons and shortcuts cannot be used while it appears. Touching this button opens a PIN entry screen. Entering the correct PIN unlocks the printer control panel (touch screen and hard buttons).

Display item	Function
Cancel Jobs	Opens the Cancel Jobs screen. The Cancel Jobs screen shows three headings: Print, Fax, and Network. The following items are available under the Print, Fax, and Network headings: • Print job • Copy job • Fax profile • FTP • E-mail send Each heading has a list of jobs shown in a column under it which can show only three jobs per screen. Each job appears as a button which you can touch to access information about the job. If more than three jobs exist in a column, then an arrow appears enabling you to scroll through the jobs.

Using the touch-screen buttons

Note: Depending on your options and administrative setup, your screens and buttons may vary from those shown.

Sample touch screen



Button	Function
	Returns to the home screen
	Opens a drop-down list

Button	Function
Left scroll decrease 	Scrolls to another value in decreasing order
Right scroll increase 	Scrolls to another value in increasing order
Left arrow 	Scrolls left
Right arrow 	Scrolls right
Submit 	Saves a value as the new user default setting
Back 	Navigates back to the previous screen

Other touch-screen buttons

Button	Function
Down arrow 	Moves down to the next screen
Up arrow 	Moves up to the next screen
Unselected radio button 	This is an unselected radio button. The radio button is gray to show it is unselected.

Button	Function
Selected radio button 	This is a selected radio button. The radio button is blue to show it is selected.
Cancel Jobs 	Opens the Cancel Jobs screen. The Cancel Jobs screen shows three headings: Print, Fax, and Network. The following items are available under the Print, Fax, and Network headings: • Print job • Copy job • Fax profile • FTP • E-mail send Each heading has a list of jobs shown in a column under it which can show only three jobs per screen. Each job appears as a button which you can touch to access information about the job. If more than three jobs exist in a column, then an arrow appears enabling you to scroll through the jobs.
Continue 	Touch this button when more changes need to be made for a job or after clearing a paper jam.
Cancel 	• Cancels an action or a selection • Cancels out of a screen and returns to the previous screen
Select 	Selects a menu or menu item

Features

Feature	Description
Menu trail line: <u>Menus</u> → <u>Settings</u> → <u>Copy Settings</u> → Number of Copies	A Menu trail line is located at the top of each menu screen. This feature acts as a trail, showing the path taken to arrive at the current menu. It gives the exact location within the menus. Touch any of the underlined words to return to that menu or menu item. The Number of Copies is not underlined since this is the current screen. If you touch an underlined word on the Number of Copies screen before the Number of Copies is set and saved, then the selection is not saved, and it does not become the user default setting.
Attendance message alert 	If an attendance message occurs which closes a function, such as copy or fax, then a solid red dot appears over the function button on the home screen. This indicates that an attendance message exists.

Additional printer setup

Installing internal options

 **CAUTION—SHOCK HAZARD:** If you are accessing the system board or installing optional hardware or memory devices sometime after setting up the printer, then turn the printer off, and unplug the power cord from the wall outlet before continuing. If you have any other devices attached to the printer, then turn them off as well, and unplug any cables going into the printer.

You can customize your printer connectivity and memory capacity by adding optional cards. The instructions in this section explain how to install the available cards; you can also use them to locate a card for removal.

Available internal options

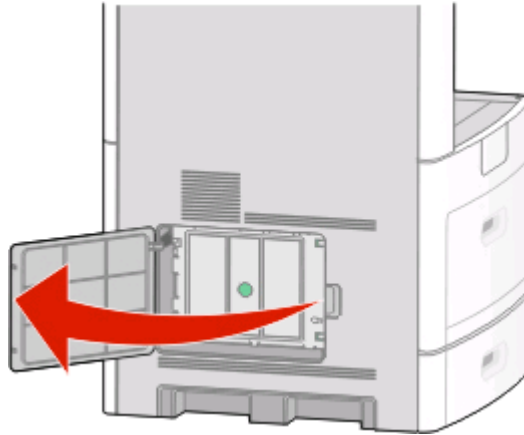
- Memory cards
 - Printer memory
 - Flash memory
 - Fonts
- Firmware cards
 - Bar Code and Forms
 - IPDS and SCS/TNe
 - PrintCryption™
 - PRESCRIBE
- Printer hard disk
- Lexmark™ Internal Solutions Ports (ISP)
 - RS-232-C Serial ISP
 - Parallel 1284-B ISP
 - MarkNet™ N8150802.11 b/g/n Wireless ISP
 - MarkNet N8130 10/100 Fiber ISP
 - MarkNet N8120 10/100/1000 Ethernet ISP
- MarkNet N8110 V-34 Fax Card

Accessing the system board to install internal options

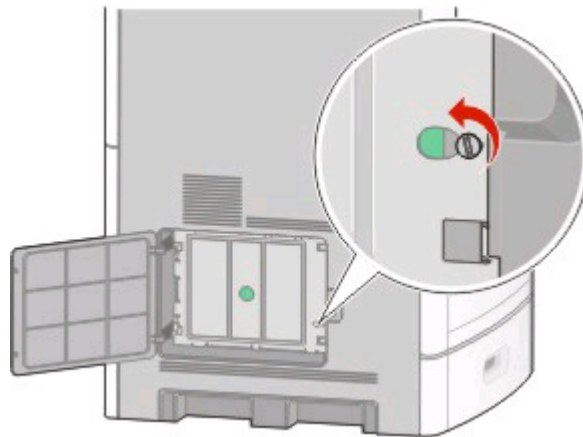
Note: This operation requires a flathead screwdriver.

⚠ CAUTION—SHOCK HAZARD: If you are accessing the system board or installing optional hardware or memory devices sometime after setting up the printer, then turn the printer off, and unplug the power cord from the wall outlet before continuing. If you have any other devices attached to the printer, then turn them off as well, and unplug any cables going into the printer.

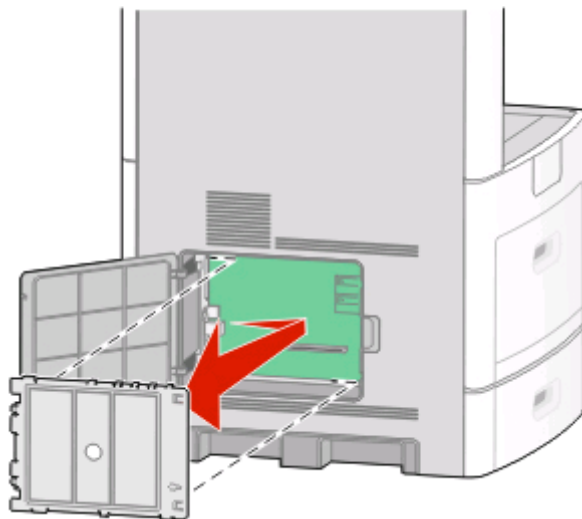
- 1 Open the system board door.



- 2 Loosen the screw(s) on the system board cover.

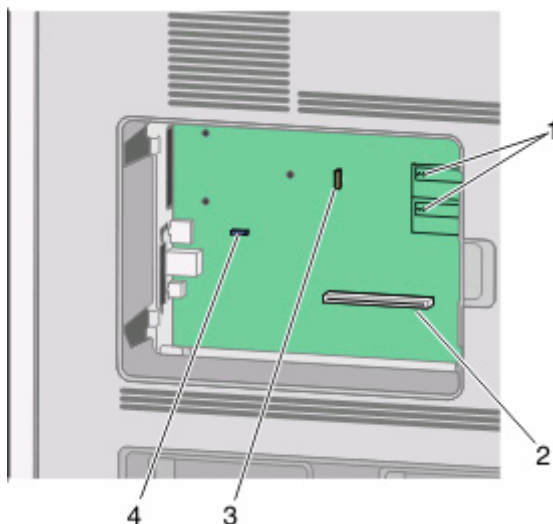


- 3 Remove the system board cover.



- 4 Use the illustration below to locate the appropriate connector.

Warning—Potential Damage: System board electronic components are easily damaged by static electricity. Touch something metal on the printer before touching any system board electronic components or connectors.



1	Firmware and flash memory card connectors
2	Memory card connector
3	Lexmark Internal Solutions Port or printer hard disk connector
4	Fax card connector

Installing a memory card

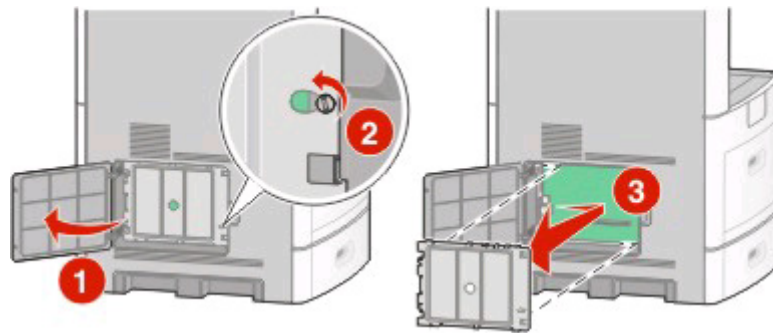
Note: This task requires a flathead screwdriver.

CAUTION—SHOCK HAZARD: If you are accessing the system board or installing optional hardware or memory devices sometime after setting up the printer, then turn the printer off, and unplug the power cord from the wall outlet before continuing. If you have any other devices attached to the printer, then turn them off as well, and unplug any cables going into the printer.

Warning—Potential Damage: System board electronic components are easily damaged by static electricity. Touch something metal on the printer before touching any system board electronic components or connectors.

An optional memory card can be purchased separately and attached to the system board. To install the memory card:

- 1 Access the system board.



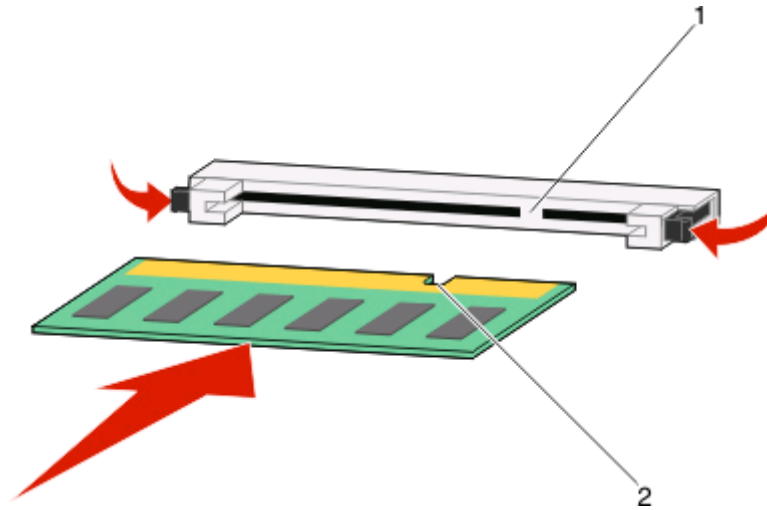
- 2 Unpack the memory card.

Note: Avoid touching the connection points along the edge of the card.

- 3 Open the memory card connector latches.



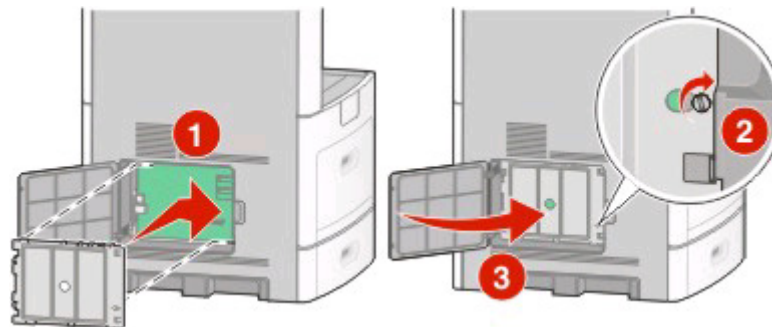
4 Align the notches on the memory card with the ridges on the connector.



1	Notches
2	Ridges

5 Push the memory card straight into the connector until it *snaps* into place.

6 Replace the system board cover and close the system board door.



Installing a flash memory or firmware card

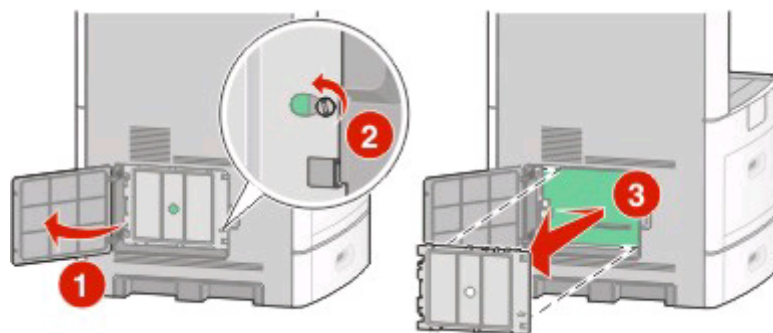
Note: This task requires a flathead screwdriver.

The system board has two connections for an optional flash memory or firmware card. Only one of each may be installed, but the connectors are interchangeable.

CAUTION—SHOCK HAZARD: If you are accessing the system board or installing optional hardware or memory devices sometime after setting up the printer, then turn the printer off, and unplug the power cord from the wall outlet before continuing. If you have any other devices attached to the printer, then turn them off as well, and unplug any cables going into the printer.

Warning—Potential Damage: System board electronic components are easily damaged by static electricity. Touch something metal on the printer before touching any system board electronic components or connectors.

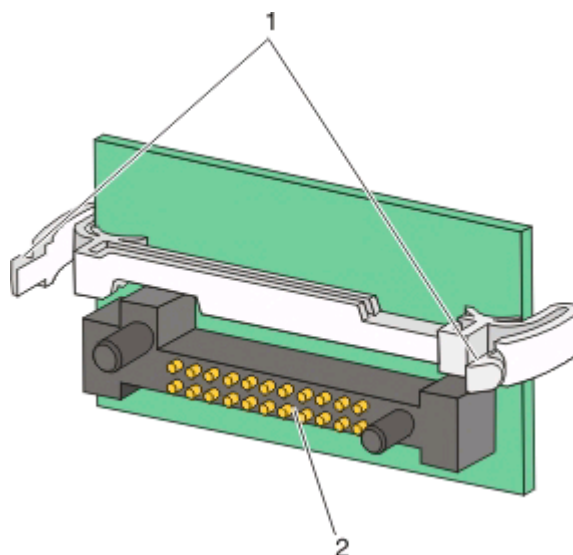
- 1 Access the system board.



- 2 Unpack the card.

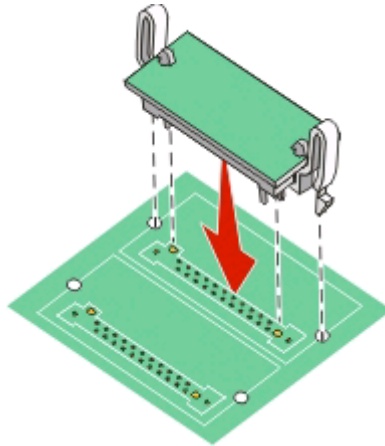
Note: Avoid touching any electrical components on the card.

- 3 Holding the card by its sides, align the plastic pins on the card with the holes on the system board.



1	Plastic pins
2	Metal pins

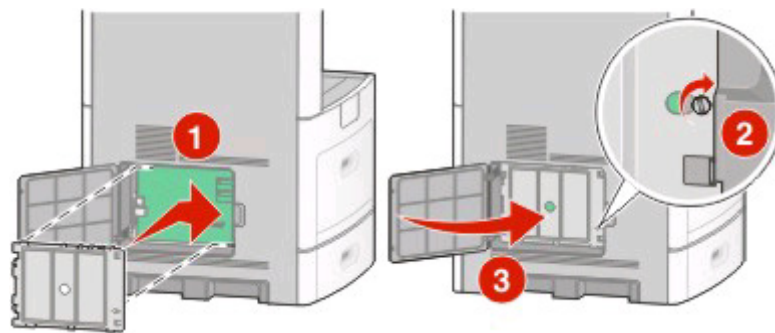
4 Push the card firmly into place.



Notes:

- The entire length of the connector on the card must touch and be flush against the system board.
- Be careful not to damage the connectors.

5 Replace the system board cover and close the system board door.



Installing an Internal Solutions Port

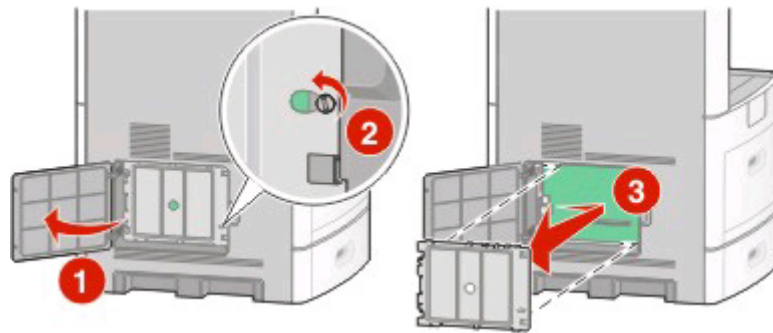
The system board supports one optional Lexmark Internal Solutions Port (ISP). Install an ISP for additional connectivity options.

Note: This operation requires a flathead screwdriver.

CAUTION—SHOCK HAZARD: If you are accessing the system board or installing optional hardware or memory devices sometime after setting up the printer, then turn the printer off, and unplug the power cord from the wall outlet before continuing. If you have any other devices attached to the printer, then turn them off as well, and unplug any cables going into the printer.

Warning—Potential Damage: System board electronic components are easily damaged by static electricity. Touch something metal on the printer before touching any system board electronic components or connectors.

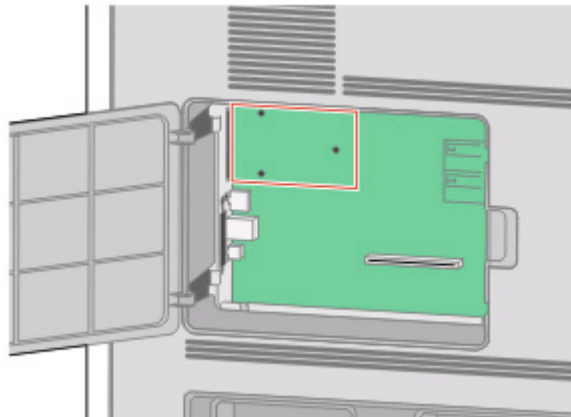
- 1 Access the system board.



- 2 Unpack the ISP and plastic tee.

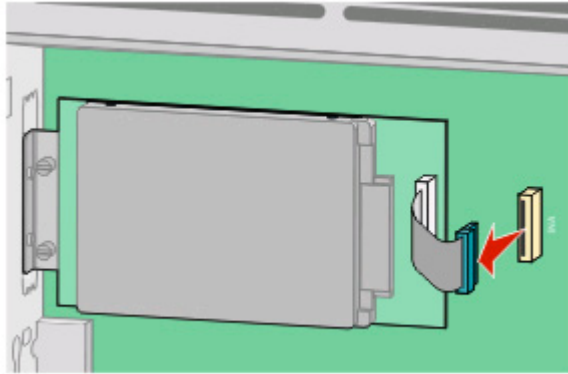
Note: Avoid touching the components on the card.

- 3 Locate the appropriate connector on the system board.

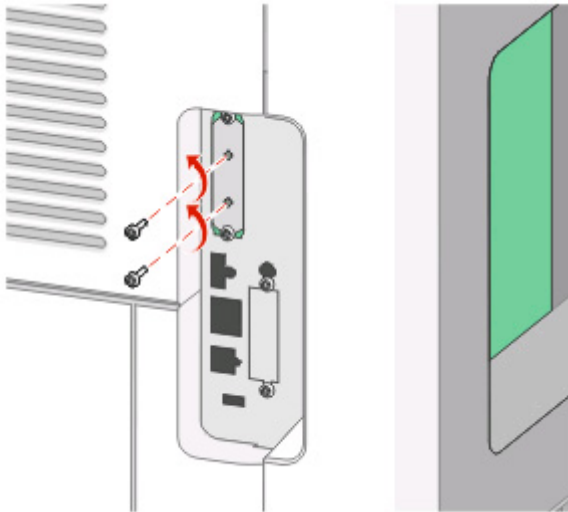


Note: If an optional printer hard disk is currently installed, then the printer hard disk must first be removed. To remove the hard disk:

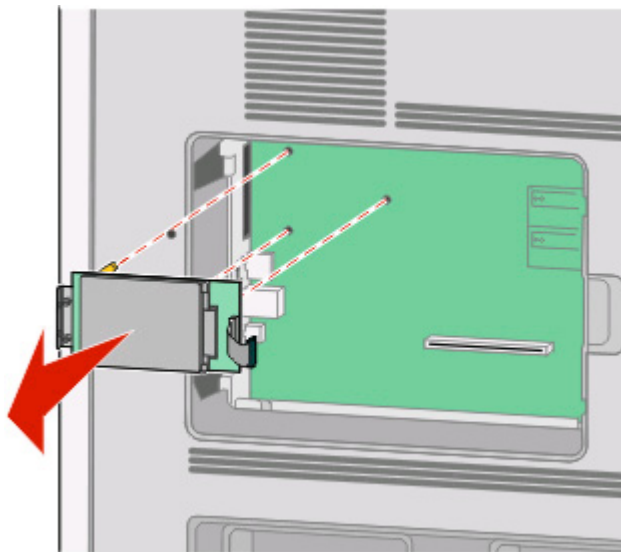
- a** Unplug the printer hard disk interface cable from the system board, leaving the cable attached to the printer hard disk. To unplug the cable, squeeze the paddle at the plug of the interface cable to disengage the latch before pulling the cable out.



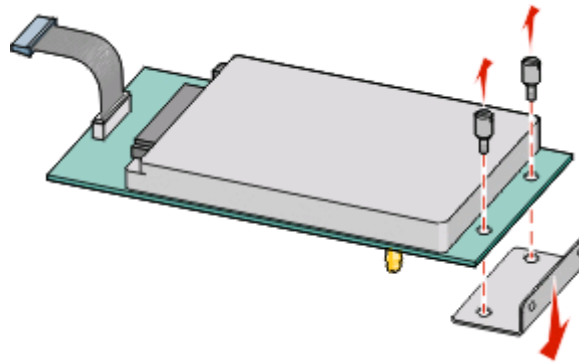
- b** Remove the screws holding the printer hard disk in place.



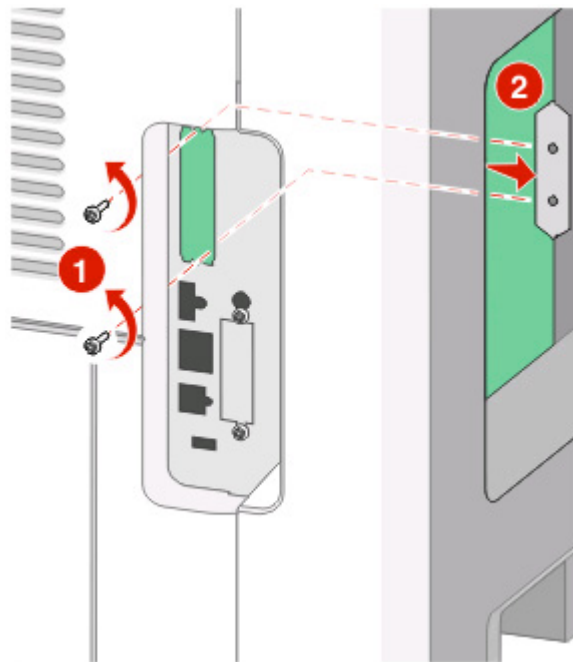
- c** Remove the printer hard disk by pulling it upward to unseat the standoffs.



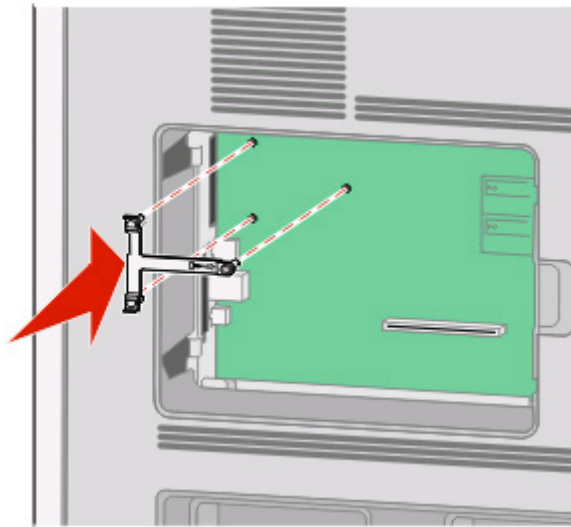
- d** Remove the thumbscrews that attach the printer hard disk mounting bracket to the printer hard disk, and then remove the bracket. Set the printer hard disk aside.



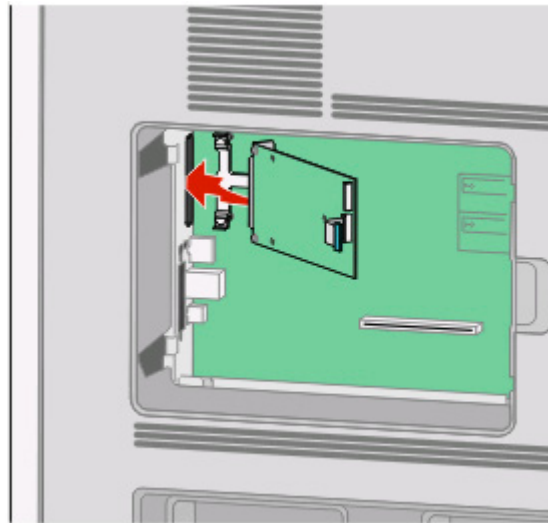
- 4** Remove the metal cover from the ISP opening.



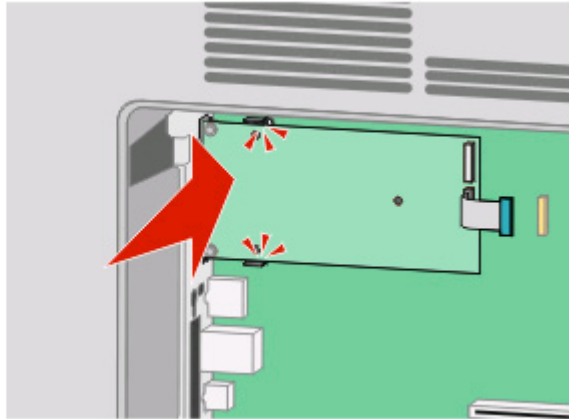
- 5** Align the posts of the plastic tee to the holes in the system board, and then press downward until the tee snaps into place. Be sure each post of the tee has latched completely, and that the tee is seated firmly onto the system board.



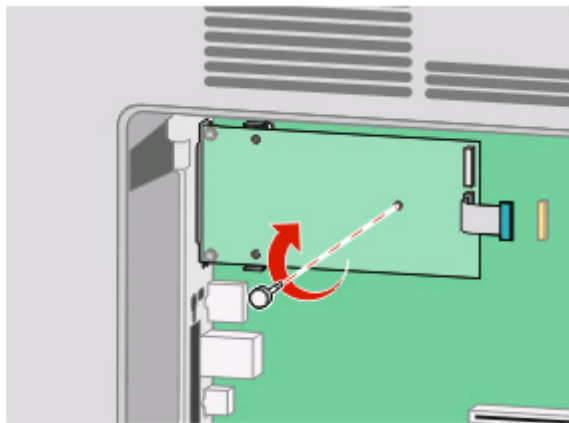
- 6** Install the ISP onto the plastic tee. Angle the ISP over the plastic tee, and then approach the plastic tee so that any overhanging connectors will pass through the ISP opening in the system board cage.



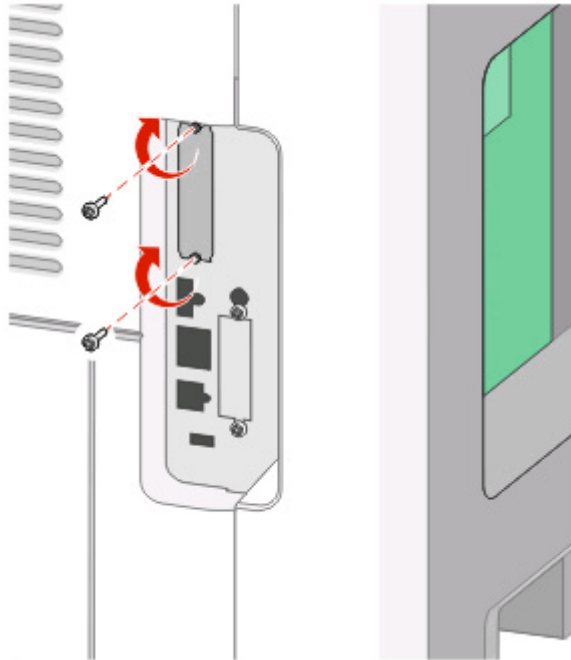
- 7** Lower the ISP toward the plastic tee until the ISP is seated between the guides of the plastic tee.



- 8** Insert the long thumbscrew and turn it clockwise enough to hold the ISP in place, but do not tighten the thumbscrew at this time.



- 9** Attach the two provided screws to secure the ISP mounting bracket to the system board cage.

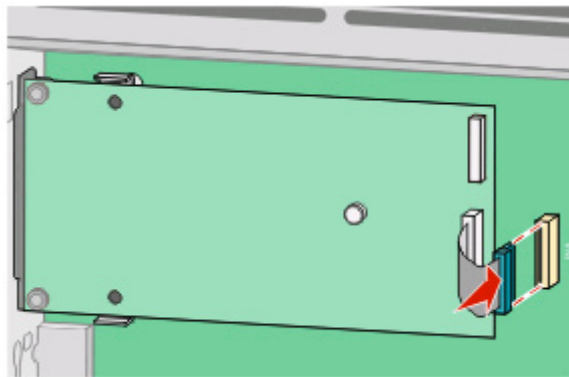


- 10** Tighten the long thumbscrew.

Note: Do not overtighten the thumbscrew.

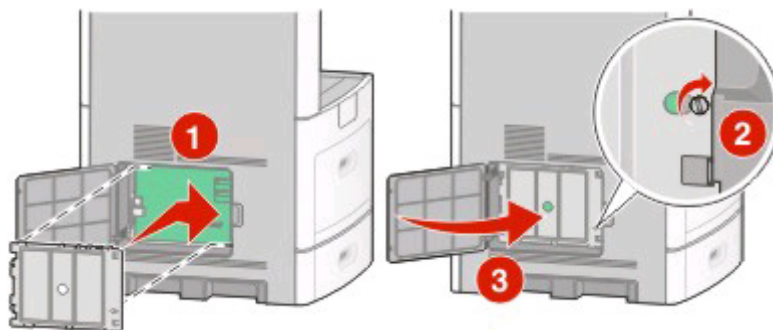
- 11** Insert the plug of the ISP interface cable into the receptacle of the system board.

Note: The plugs and receptacles are color coded.



- 12** If a printer hard disk was previously installed, then attach the printer hard disk to the ISP. For more information, see "Installing a printer hard disk" on page 39.

- 13** Replace the system board cover and close the system board door.



Installing a printer hard disk

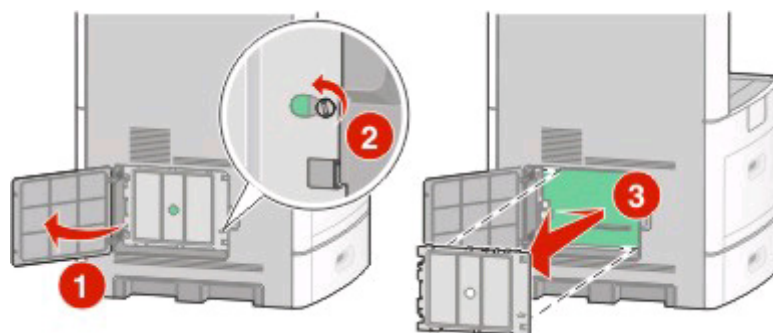
The optional printer hard disk can be installed with or without a Lexmark Internal Solutions Port (ISP).

Note: This operation requires a flathead screwdriver.

CAUTION—SHOCK HAZARD: If you are accessing the system board or installing optional hardware or memory devices sometime after setting up the printer, then turn the printer off, and unplug the power cord from the wall outlet before continuing. If you have any other devices attached to the printer, then turn them off as well, and unplug any cables going into the printer.

Warning—Potential Damage: System board electronic components are easily damaged by static electricity. Touch something metal on the printer before touching any system board electronic components or connectors.

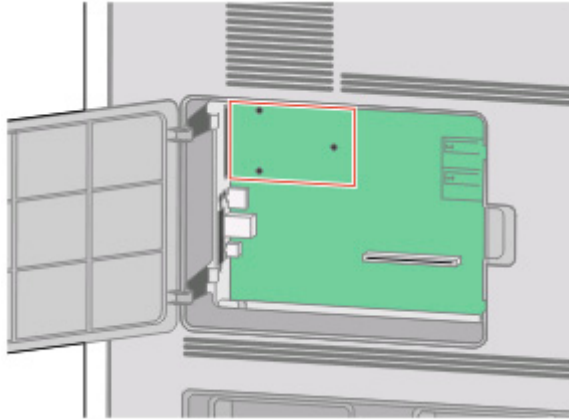
- 1** Access the system board.



- 2** Unpack the printer hard disk.

Note: Avoid touching the components on the card.

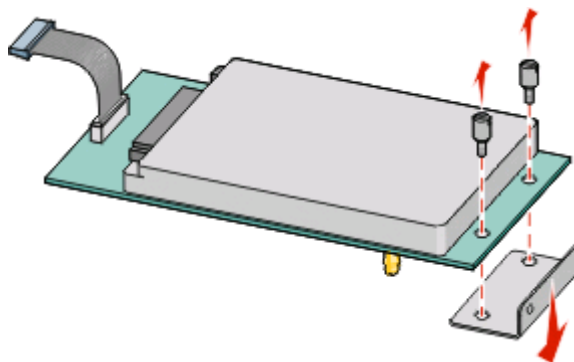
- 3** Locate the appropriate connector on the system board.



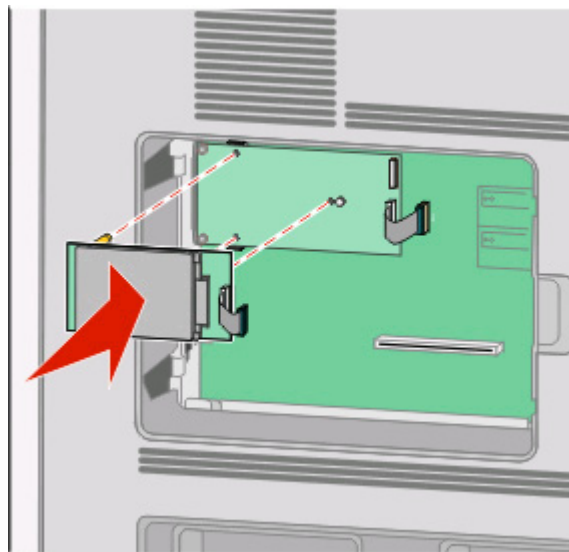
Note: If an optional ISP is currently installed, then the printer hard disk must be installed onto the ISP.

To install a printer hard disk onto the ISP:

- a** Using a flathead screwdriver to loosen the screws, remove the thumbscrews that attach the printer hard disk mounting bracket to the printer hard disk, and then remove the bracket.

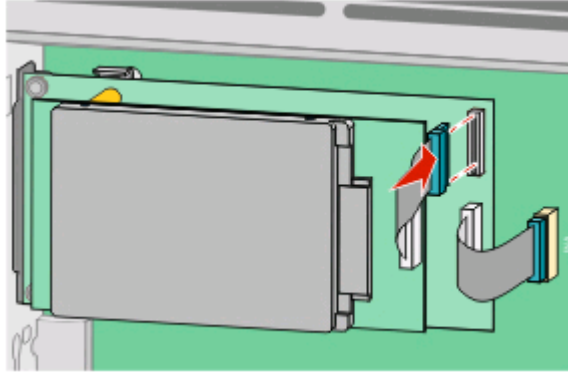


- b** Align the standoffs of the printer hard disk with the holes in the ISP, and then press downward on the printer hard disk until the standoffs have seated into place.



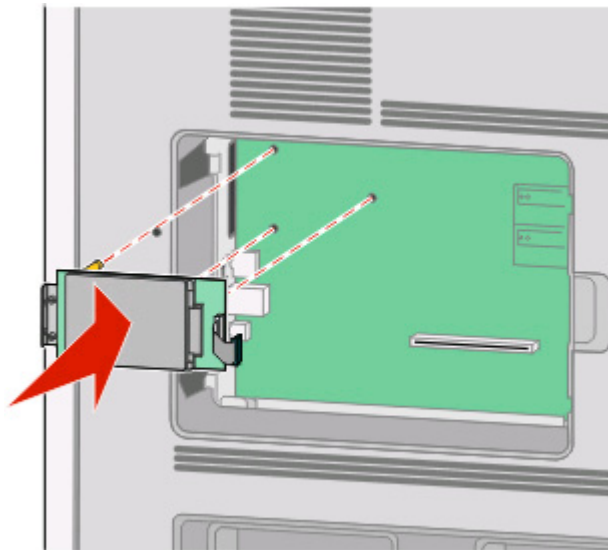
- c Insert the plug of the printer hard disk interface cable into the receptacle of the ISP.

Note: The plugs and receptacles are color coded.

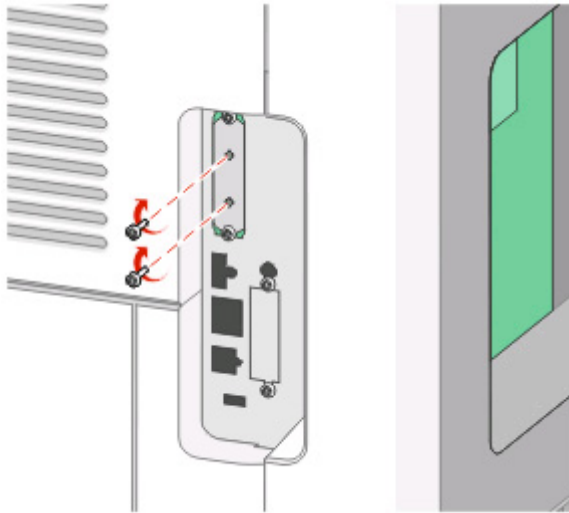


To install a printer hard disk directly onto the system board:

- a Align the standoffs of the printer hard disk with the holes in the system board, and then press downward on the printer hard disk until the standoffs have seated into place.

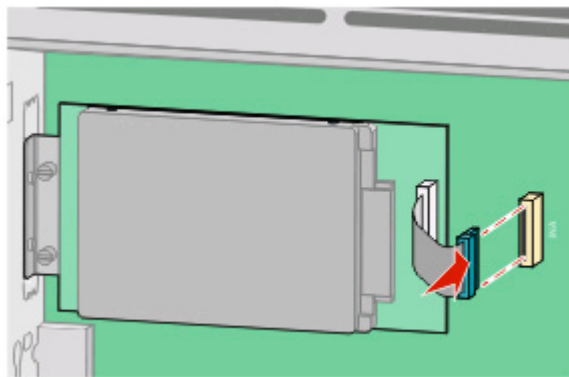


- b** Attach the two provided screws to secure the printer hard disk mounting bracket.

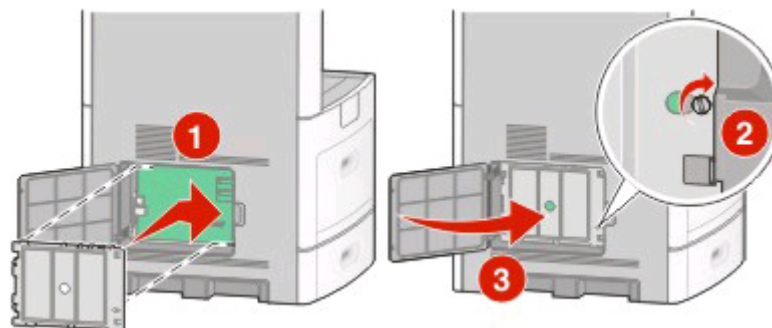


- c** Insert the plug of the printer hard disk interface cable into the receptacle of the system board.

Note: The plugs and receptacles are color coded.



- 4** Replace the system board cover and close the system board door.



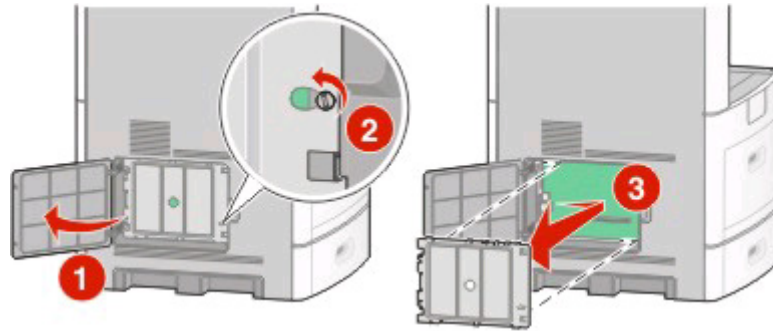
Installing a fax card

Note: This task requires a flathead screwdriver.

CAUTION—SHOCK HAZARD: If you are accessing the system board or installing optional hardware or memory devices sometime after setting up the printer, then turn the printer off, and unplug the power cord from the wall outlet before continuing. If you have any other devices attached to the printer, then turn them off as well, and unplug any cables going into the printer.

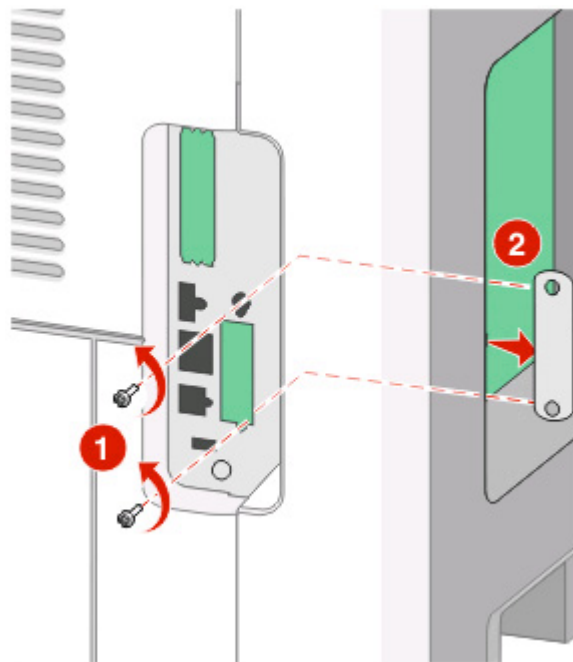
Warning—Potential Damage: System board electronic components are easily damaged by static electricity. Touch something metal on the printer before touching any system board electronic components or connectors.

- 1 Access the system board.

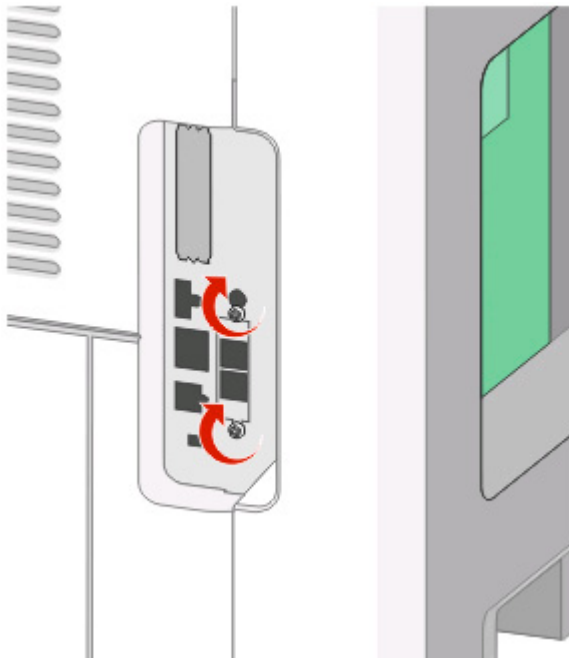
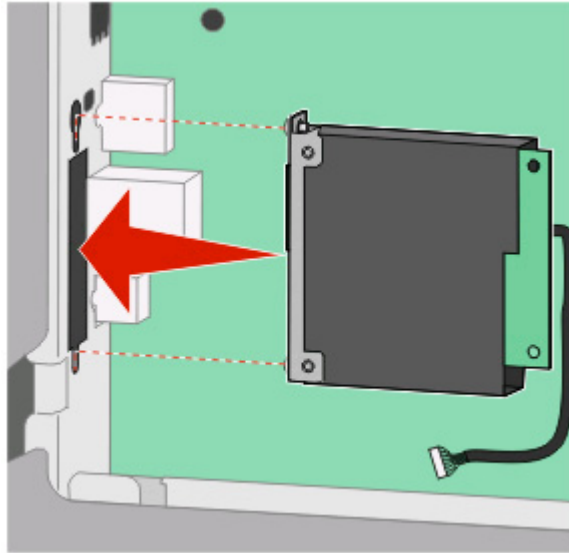


- 2 Unpack the fax card.

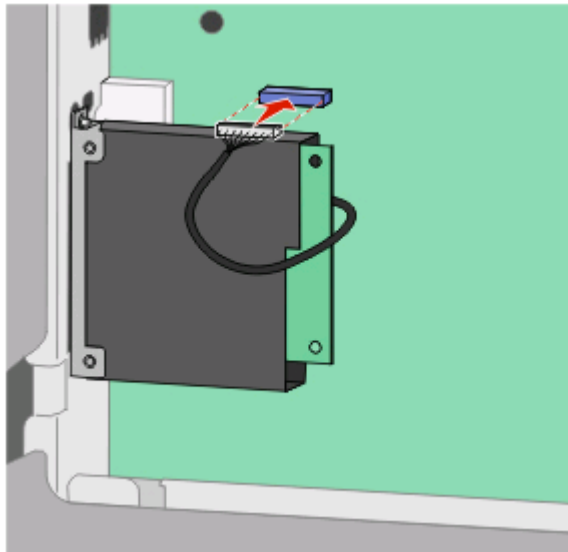
- 3 Remove the metal cover from the fax card opening.



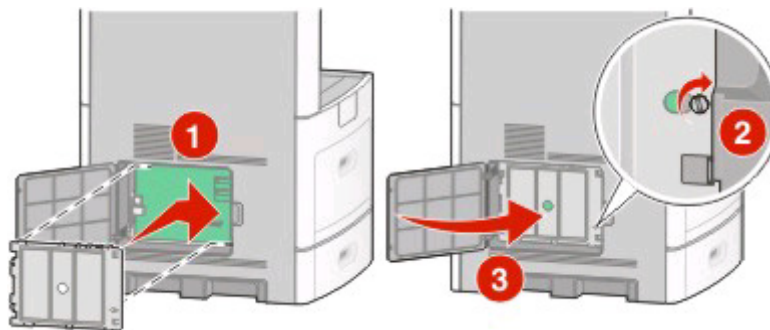
- 4** Insert the fax card and attach the two provided screws to secure the fax card mounting bracket.



- 5** Insert the plug of the fax card interface cable into the receptacle of the system board.



- 6** Replace the system board cover and close the system board door.

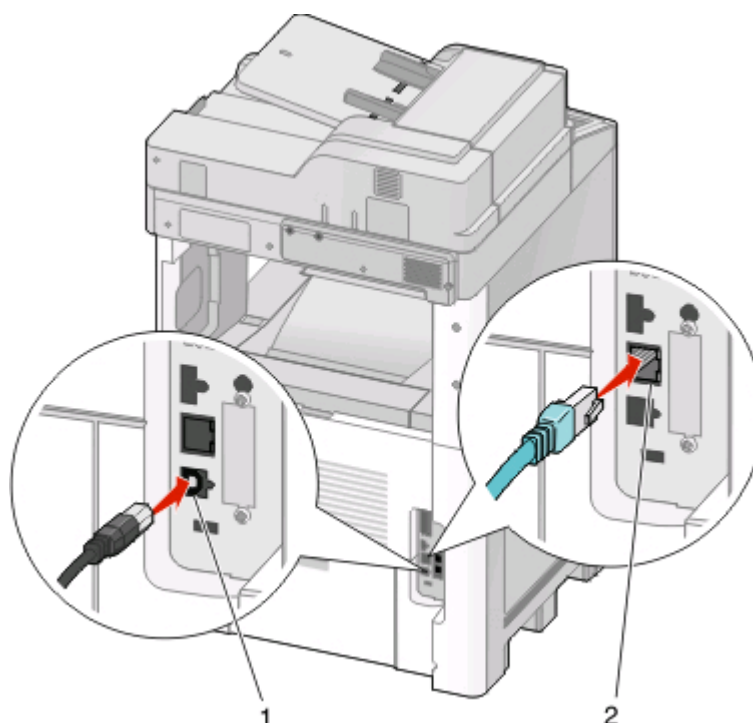


Attaching cables

Connect the printer to the computer using a USB cable or Ethernet cable.

Be sure to match the following:

- The USB symbol on the cable with the USB symbol on the printer
- The appropriate Ethernet cable to the Ethernet port



1	USB port
2	Ethernet port

Verifying printer setup

Once all hardware and software options are installed and the printer is turned on, verify that the printer is set up correctly by printing the following: .

- **Menu settings page**—Use this page to verify that all printer options are installed correctly. A list of installed options appears toward the bottom of the page. If an option you installed is not listed, then it is not installed correctly. Remove the option and install it again.
- **Network setup page**—If your printer is a network model and is attached to a network, print a network setup page to verify the network connection. This page also provides important information that aids network printing configuration.

Printing a menu settings page

Print a menu settings page to review the current menu settings and to verify printer options are installed correctly.

Note: If you have not made any menu item settings changes yet, then the menu settings page lists all the factory default settings. Once you select and save other settings from the menus, they replace the factory default settings as *user default settings*. A user default setting remains in effect until you access the menu again, choose another value, and save it. To restore the factory default settings, see “Restoring the factory default settings” on page 261.

- 1 Make sure the printer is on and **Ready** appears.
- 2 On the home screen, touch .

3 Touch Reports.

4 Touch Menu Settings Page.

The menu settings page prints and the printer returns to the home screen.

Printing a network setup page

If the printer is attached to a network, then print a network setup page to verify the network connection. This page also provides important information that aids network printing configuration.

1 Make sure the printer is on and **Ready** appears.

2 On the home screen, touch .

3 Touch Reports.

4 Touch Network Setup Page.

The network setup page prints and the printer returns to the home screen.

5 Check the first section on the network setup page, and confirm that Status is "Connected."

If Status is "Not Connected," the LAN drop may not be active, or the network cable may be malfunctioning. Consult a system support person for a solution, and then print another network setup page.

Setting up the printer software

Installing printer software

A printer driver is software that lets the computer communicate with the printer. The printer software is typically installed during the initial printer setup. If you need to install the software after setup, follow these instructions:

For Windows users

1 Close all open software programs.

2 Insert the *Software and Documentation* CD.

3 From the main installation dialog, click **Install**.

4 Follow the instructions on the screen.

For Macintosh users

1 Close all open software applications.

2 Insert the *Software and Documentation* CD.

3 From the Finder desktop, double-click the printer CD icon that automatically appears.

4 Double-click the **Install** icon.

5 Follow the instructions on the screen.

Using the World Wide Web

- 1 Go to the Lexmark Web site at **www.lexmark.com**.
- 2 From the Drivers & Downloads menu, click **Driver Finder**.
- 3 Select your printer, and then select your operating system.
- 4 Download the driver and install the printer software.

Updating available options in the printer driver

Once the printer software and any options are installed, it may be necessary to manually add the options in the printer driver to make them available for print jobs.

For Windows users

- 1 Do one of the following:

In Windows Vista

- a Click .
- b Click **Control Panel**.
- c Click **Hardware and Sound**.
- d Click **Printers**.

In Windows XP

- a Click **Start**.
- b Click **Printers and Faxes**.

In Windows 2000

- a Click **Start**.
- b Click **Settings → Printers**.

- 2 Select the printer.
- 3 Right-click the printer, and then select **Properties**.
- 4 Click the Install Options tab.
- 5 Under Available Options, add any installed hardware options.
- 6 Click **Apply**.

For Macintosh users

In Mac OS X version 10.5

- 1 From the Apple menu, choose **System Preferences**.
- 2 Click **Print & Fax**.
- 3 Select the printer, and then click **Options & Supplies**.

4 Click **Driver**, and then add any installed hardware options.

5 Click **OK**.

In Mac OS X version 10.4 and earlier

1 From the Go menu, choose **Applications**.

2 Double-click **Utilities**, and then double-click **Print Center** or **Printer Setup Utility**.

3 Select the printer, and then from the Printers menu, choose **Show Info**.

4 From the pop-up menu, choose **Installable Options**.

5 Add any installed hardware options, and then click **Apply Changes**.

Setting up wireless printing

Information you will need to set up the printer on a wireless network

Note: Do not connect the installation or network cables until prompted to do so by the setup software.

- **SSID**—The SSID is also referred to as the network name.
- **Wireless Mode (or Network Mode)**—The mode will be either infrastructure or ad hoc.
- **Channel (for ad hoc networks)**—The channel defaults to auto for infrastructure networks.

Some ad hoc networks will also require the auto setting. Check with your system support person if you are not sure which channel to select.

- **Security Method**—There are three basic options for Security Method:
 - WEP key
If your network uses more than one WEP key, enter up to four in the provided spaces. Select the key currently in use on the network by selecting the Default WEP Transmit Key.
or
 - WPA or WPA2 passphrase
WPA includes encryption as an additional layer of security. The choices are AES or TKIP. Encryption must be set for the same type on the router and on the printer, or the printer will not be able to communicate on the network.
 - No security
If your wireless network does not use any type of security, then you will not have any security information.

Note: Using an unsecured wireless network is not recommended.

If you are installing the printer on an 802.1X network using the Advanced method, then you may need the following:

- Authentication type
- Inner authentication type
- 802.1X username and password
- Certificates

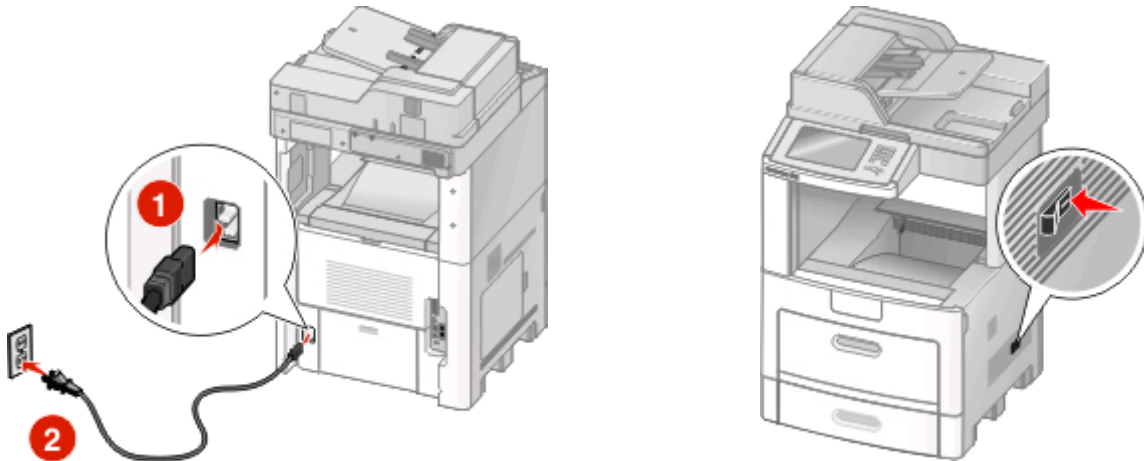
Note: For more information on configuring 802.1X security, see the *Networking Guide* on the *Software and Documentation* CD.

Installing the printer on a wireless network (Windows)

Before you install the printer on a wireless network, make sure that:

- Your wireless network is set up and working properly.
- The computer you are using is connected to the same wireless network where you want to set up the printer.

1 Connect the power cable, and then turn the printer on.

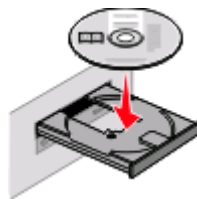


Make sure the printer and computer are fully on and ready.



Do not connect the USB cable until instructed to do so on the screen

2 Insert the *Software and Documentation* CD.



3 Click **Install**.

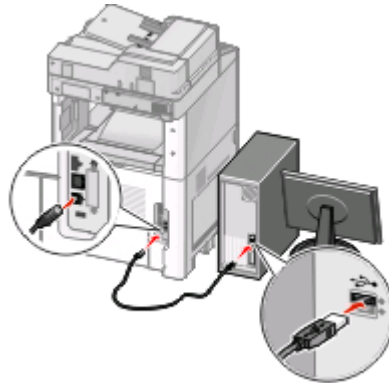
4 Click **Agree**.

5 Click **Suggested**.

6 Click **Wireless Network Attach**.

7 Connect the cables in the following order:

- a** Temporarily connect a USB cable between the computer on the wireless network and the printer.



Note: After the printer is configured, the software will instruct you to disconnect the temporary USB cable so you can print wirelessly.

- b** If your printer has faxing capabilities, then connect the telephone cable.

8 Follow the on-screen instructions to complete the software installation.

9 To allow other computers on the wireless network to use the wireless printer, follow steps 2 through 6 and step 8 for each computer.

Installing the printer on a wireless network (Macintosh)

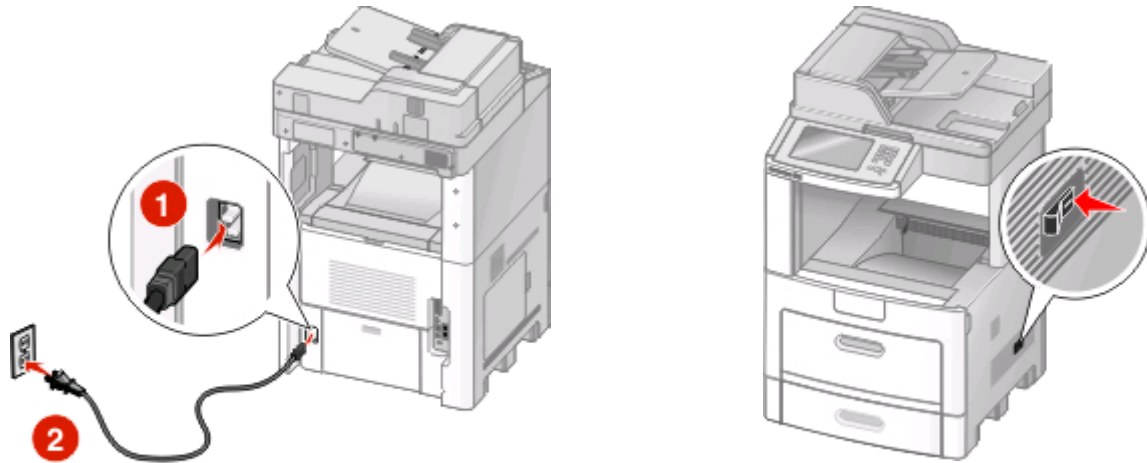
Prepare to configure the printer

1 Locate the printer MAC address on the sheet that came with the printer. Write the last six digits of the MAC address in the space provided below:

MAC address: _____

2 If your printer has faxing capabilities, then connect the telephone cable.

- 3 Connect the power cable, and then turn the power on.



Enter the printer information

- 1 Access the AirPort options.

In Mac OS X version 10.5

- a From the Apple menu, choose **System Preferences**.
- b Click **Network**.
- c Click **AirPort**.

In Mac OS X version 10.4 and earlier

- a From the Go menu, choose **Applications**.
 - b Double-click **Internet Connect**.
 - c From the toolbar, click **AirPort**.
- 2 From the Network pop-up menu, select **print server xxxxxx**, where the x's are the last six digits of the MAC address located on the MAC address sheet.
 - 3 Open the Safari browser.
 - 4 From the Bookmarks drop-down menu, select **Show**.
 - 5 Under Collections, select **Bonjour** or **Rendezvous**, and then double-click the printer name.
 - 6 From the main page of the Embedded Web Server, navigate to the page where the wireless settings information is stored.

Configure the printer for wireless access

- 1 Type the name of your network (SSID) in the appropriate field.
- 2 Select **Infrastructure** as your Network Mode if you are using a wireless router.
- 3 Select the type of security you use to protect your wireless network.

- 4 Enter the security information necessary for the printer to join your wireless network.
- 5 Click **Submit**.
- 6 Open the AirPort application on your computer:

In Mac OS X version 10.5

- a From the Apple menu, choose **System Preferences**.
- b Click **Network**.
- c Click **AirPort**.

In Mac OS X version 10.4 and earlier

- a From the Go menu, choose **Applications**.
- b Double-click **Internet Connect**.
- c From the toolbar, click **AirPort**.

- 7 From the Network pop-up menu, select your wireless network.

Configure your computer to use the printer wirelessly

To print to a network printer, each Macintosh user must install a custom *PostScript Printer Description* (PPD) file and create a printer in the Print Center or Printer Setup Utility.

- 1 Install a PPD file on the computer:
 - a Insert the *Software and Documentation* CD in the CD or DVD drive.
 - b Double-click the installer package for the printer.
 - c From the Welcome screen, click **Continue**.
 - d Click **Continue** again after viewing the Readme file.
 - e Click **Continue** after viewing the license agreement, and then click **Agree** to accept the terms of the agreement.
 - f Select a Destination, and then click **Continue**.
 - g From the Easy Install screen, click **Install**.
 - h Type the user password, and then click **OK**.
All necessary software is installed on the computer.
 - i Click **Close** when installation is complete.
- 2 Add the printer:
 - a For IP printing:

In Mac OS X version 10.5

- 1 From the Apple menu, choose **System Preferences**.
- 2 Click **Print & Fax**.
- 3 Click **+**.
- 4 Select the printer from the list.
- 5 Click **Add**.

In Mac OS X version 10.4

- 1 From the Go menu, choose **Applications**.
- 2 Double-click **Utilities**.
- 3 Locate and double-click **Printer Setup Utility** or **Print Center**.
- 4 From the Printer List, choose **Add**.
- 5 Select the printer from the list.
- 6 Click **Add**.

b For AppleTalk printing:

In Mac OS X version 10.5

- 1 From the Apple menu, choose **System Preferences**.
- 2 Click **Print & Fax**.
- 3 Click **+**.
- 4 Click **AppleTalk**.
- 5 Select the printer from the list.
- 6 Click **Add**.

In Mac OS X version 10.4

- 1 From the Go menu, choose **Applications**.
- 2 Double-click **Utilities**.
- 3 Locate and double-click **Print Center** or **Printer Setup Utility**.
- 4 From the Printer List, choose **Add**.
- 5 Choose the **Default Browser** tab.
- 6 Click **More Printers**.
- 7 From the first pop-up menu, choose **AppleTalk**.
- 8 From the second pop-up menu, select **Local AppleTalk zone**.
- 9 Select the printer from the list.
- 10 Click **Add**.

Installing the printer on a wired network

Use the following instructions to install the printer on a wired network. These instructions apply to Ethernet and fiber optic network connections.

Before you install the printer on a wired network, make sure that:

- You have completed the initial setup of the printer.
- The printer is connected to your network with the appropriate type of cable.

For Windows users

- 1 Insert the *Software and Documentation* CD.

Wait for the Welcome screen to appear.

If the CD does not launch after a minute, then do one of the following:

In Windows Vista

- a Click .
- b In the Start Search box, type **D:\setup.exe**, where **D** is the letter of your CD or DVD drive.

In Windows XP and earlier

- a Click **Start**.
- b Click **Run**.
- c Type **D:\setup.exe**, where **D** is the letter of your CD or DVD drive.

2 Click **Install Printer and Software**.

3 Click **Agree** to agree to the License Agreement.

4 Select **Suggested**, and then click **Next**.

Note: To configure the printer using a static IP address, using IPv6, or to configure printers using scripts, select **Custom** and follow the on-screen instructions.

5 Select **Wired Network Attach**, and then click **Next**.

6 Select the printer manufacturer from the list.

7 Select the printer model from the list, and then click **Next**.

8 Select the printer from the list of printers discovered on the network, and then click **Finish**.

Note: If your configured printer does not appear in the list of discovered printers, click **Add Port** and follow the on-screen instructions.

9 Follow the on-screen instructions to complete the installation.

For Macintosh users

1 Allow the network DHCP server to assign an IP address to the printer.

2 Print the network setup page from the printer. For information on printing a network setup page, see "Printing a network setup page" on page 47.

3 Locate the printer IP address in the TCP/IP section of the network setup page. You will need the IP address if you are configuring access for computers on a different subnet than the printer.

4 Install the drivers and add the printer.

a Install a PPD file on the computer:

1 Insert the *Software and Documentation* CD in the CD or DVD drive.

2 Double-click the installer package for the printer.

3 From the Welcome screen, click **Continue**.

4 Click **Continue** again after viewing the Readme file.

5 Click **Continue** after viewing the license agreement, and then click **Agree** to accept the terms of the agreement.

6 Select a Destination, and then click **Continue**.

7 From the Easy Install screen, click **Install**.

- 8 Type the user password, and then click **OK**.
All the necessary software is installed on the computer.
- 9 Click **Close** when installation is complete.

b Add the printer:

- For IP printing:

In Mac OS X version 10.5

- 1 From the Apple menu, choose **System Preferences**.
- 2 Click **Print & Fax**.
- 3 Click **+**.
- 4 Select the printer from the list.
- 5 Click **Add**.

In Mac OS X version 10.4 and earlier

- 1 From the Go menu, choose **Applications**.
- 2 Double-click **Utilities**.
- 3 Double-click **Printer Setup Utility** or **Print Center**.
- 4 From the Printer List, click **Add**.
- 5 Select the printer from the list.
- 6 Click **Add**.

- For AppleTalk printing:

In Mac OS X version 10.5

- 1 From the Apple menu, choose **System Preferences**.
- 2 Click **Print & Fax**.
- 3 Click **+**.
- 4 Click **AppleTalk**.
- 5 Select the printer from the list.
- 6 Click **Add**.

In Mac OS X version 10.4 and earlier

- 1 From the Go menu, choose **Applications**.
- 2 Double-click **Utilities**.
- 3 Double-click **Print Center** or **Printer Setup Utility**.
- 4 From the Printer List, click **Add**.
- 5 Choose the **Default Browser** tab.
- 6 Click **More Printers**.
- 7 From the first pop-up menu, choose **AppleTalk**.
- 8 From the second pop-up menu, select **Local AppleTalk zone**.
- 9 Select the printer from the list.
- 10 Click **Add**.

Note: If the printer doesn't show up in the list, you may need to add it using the IP address. Contact your system support person for assistance.

Changing port settings after installing a new network Internal Solutions Port

When a new network Lexmark Internal Solutions Port (ISP) is installed in the printer, the printer configurations on computers that access the printer must be updated because the printer will be assigned a new IP address. All computers that access the printer must be updated with this new IP address in order to print to it over the network.

Notes:

- If the printer has a static IP address that will stay the same, then you do not need to make any changes to the computer configurations.
- If the computers are configured to print to the printer by a network name that will stay the same, instead of by IP address, then you do not need to make any changes to the computer configurations.
- If you are adding a wireless ISP to a printer previously configured for a wired connection, then make sure the wired network is disconnected when you configure the printer to operate wirelessly. If the wired connection remains connected, then the wireless configuration will complete, but the wireless ISP will not be active. This can be fixed by disconnecting the wired connection, turning the printer off, and then turning the printer back on again.

For Windows users

- 1 Print a network setup page and make a note of the new IP address.
- 2 Do one of the following:

In Windows Vista

- a Click .
- b Click **Control Panel**.
- c Under Hardware and Sound, click **Printer**.

In Windows XP

- a Click **Start**.
- b Click **Printers and Faxes**.

In Windows 2000

- a Click **Start**.
- b Click **Settings → Printers**.

- 3 Locate the printer that has changed.

Note: If there is more than one copy of the printer, then update all of them with the new IP address.

- 4 Right-click the printer.
- 5 Click **Properties**.
- 6 Click the **Ports** tab.
- 7 Locate the port in the list, and then select it.
- 8 Click **Configure Port**.

- 9 Type the new IP address in the "Printer Name or IP Address" field. You can find the new IP address on the network setup page you printed in step 1.
- 10 Click **OK**, and then click **Close**.

For Mac users

- 1 Print a network setup page and make a note of the new IP address.
- 2 Locate the printer IP address in the TCP/IP section of the network setup page. You will need the IP address if you are configuring access for computers on a different subnet than the printer.
- 3 Add the printer:
 - For IP printing:

In Mac OS X version 10.5

- a From the Apple menu, choose **System Preferences**.
- b Click **Print & Fax**.
- c Click **+**.
- d Select the printer from the list.
- e Click **Add**.

In Mac OS X version 10.4 and earlier

- a From the Go menu, choose **Applications**.
 - b Double-click **Utilities**.
 - c Double-click **Printer Setup Utility** or **Print Center**.
 - d From the Printer List, click **Add**.
 - e Select the printer from the list.
 - f Click **Add**.
- For AppleTalk printing:

In Mac OS X version 10.5

- a From the Apple menu, choose **System Preferences**.
- b Click **Print & Fax**.
- c Click **+**.
- d Click **AppleTalk**.
- e Select the printer from the list.
- f Click **Add**.

In Mac OS X version 10.4 and earlier

- a From the Go menu, choose **Applications**.
- b Double-click **Utilities**.
- c Double-click **Print Center** or **Printer Setup Utility**.
- d From the Printer List, click **Add**.
- e Choose the **Default Browser** tab.
- f Click **More Printers**.
- g From the first pop-up menu, choose **AppleTalk**.

- h** From the second pop-up menu, select **Local AppleTalk zone**.
- i** Select the printer from the list.
- j** Click **Add**.

Setting up serial printing

In serial printing, data is transferred one bit at a time. Although serial printing is usually slower than parallel printing, it is the preferred option when there is a great deal of distance between the printer and computer or when an interface with a better transfer rate is not available.

After installing the serial port, you will need to configure the printer and the computer so they can communicate. Make sure you have connected the serial cable to the serial port on your printer.

- 1** Set the parameters in the printer:
 - a** From the printer control panel, navigate to the menu with port settings.
 - b** Locate the submenu with serial port settings.
 - c** Make any necessary changes to the serial settings.
 - d** Save the new settings.
 - e** Print a menu settings page.
- 2** Install the printer driver:
 - a** Insert the *Software and Documentation* CD. It launches automatically.
If the CD does not launch automatically, do one of the following:

In Windows Vista

- 1** Click .
- 2** In the Start Search box, type `D:\setup.exe`, where **D** is the letter of your CD or DVD drive.

In Windows XP and earlier

- 1** Click **Start**.
 - 2** Click **Run**.
 - 3** Type `D:\setup.exe`, where **D** is the letter of your CD or DVD drive.
- b** Click **Install Printer and Software**.
 - c** Click **Agree** to accept the Printer Software License Agreement.
 - d** Click **Custom**.
 - e** Make sure **Select Components** is selected, and then click **Next**.
 - f** Make sure **Local** is selected, and then click **Next**.
 - g** Select the manufacturer of the printer from the menu.
 - h** Select the printer model from the menu, and then click **Add Printer**.
 - i** Click the **+** beside the printer model under **Select Components**.
 - j** Make sure the correct port is available under **Select Components**. This is the port where the serial cable attaches to the computer. If the correct port is not available, select the port under the **Select Port** menu, and then click **Add Port**.

- k** Make any configuration changes necessary in the Add a New Port window. Click **Add Port** to finish adding the port.
- l** Make sure the box next to the selected printer model is checked.
- m** Select any other optional software you want to install, and then click **Next**.
- n** Click **Finish** to complete the printer software installation.

3 Set the COM port parameters:

After the printer driver is installed, you must set the serial parameters in the communications (COM) port assigned to the printer driver.

The serial parameters in the COM port must match the serial parameters you set in the printer.

- a** Open the Device Manager. Do one of the following:

In Windows Vista

- 1** Click .
- 2** Click **Control Panel**.
- 3** Click **System and Maintenance**.
- 4** Click **System**.
- 5** Click **Device Manager**.

In Windows XP

- 1** Click **Start**.
- 2** Click **Control Panel**.
- 3** Click **Performance and Maintenance**.
- 4** Click **System**.
- 5** From the Hardware tab, click **Device Manager**.

In Windows 2000

- 1** Click **Start**.
- 2** Click **Settings → Control Panel**.
- 3** Click **System**.
- 4** From the Hardware tab, click **Device Manager**.
- b** Click **+** to expand the list of available ports.
- c** Select the communications port where you attached the serial cable to your computer (example: COM1).
- d** Click **Properties**.
- e** On the Port Settings tab, set the serial parameters to the same serial parameters in the printer.
Look for the printer settings under the serial heading on the Menu Settings page you printed earlier.
- f** Click **OK**, and then close all the windows.
- g** Print a test page to verify printer installation. When a test page prints successfully, printer setup is complete.

Setting up the printer to fax

Note: Fax capabilities may not be available on all printer models.

The following connection methods may not be applicable in all countries or regions.

 **CAUTION—SHOCK HAZARD:** Do not use the fax feature during a lightning storm. Do not set up this product or make any electrical or cabling connections, such as the fax feature, power cord, or telephone, during a lightning storm.

Choosing a fax connection

You can connect the printer with equipment such as a telephone, an answering machine, or a computer modem.

Note: The printer is an analog device that works best when directly connected to the wall jack. Other devices (such as a telephone or answering machine) can be successfully attached to pass through the printer, as described in the setup steps. If you want a digital connection such as ISDN, DSL, or ADSL, a third-party device (such as a DSL filter) is required.

You *do not* need to attach the printer to a computer, but you *do* need to connect it to a telephone line to send and receive faxes.

You can connect the printer to other equipment. See the following table to determine the best way to set up the printer.

Equipment	Benefits
• The printer • A telephone cord	Send and receive faxes without using a computer.
• The printer • A telephone • Two telephone cords	• Use the fax line as a normal telephone line. • Send and receive faxes without using a computer.
• The printer • A telephone • An answering machine • Three telephone cords	Receive both incoming voice messages and faxes.
• The printer • A telephone • A computer modem • Three telephone cords	Send faxes using the computer or the printer.

Using an RJ11 adapter

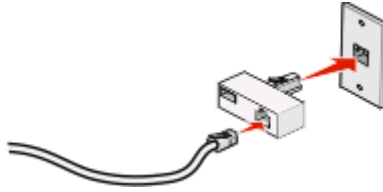
Country/region

- United Kingdom
- Ireland
- Finland
- Norway
- Denmark
- Italy
- Sweden
- Netherlands
- France
- Portugal

To connect your printer to an answering machine, telephone, or other telecommunications equipment, use the telephone line adapter included in the box with the printer in some countries or regions.

Note: If you have DSL, do not connect the printer using a splitter because the fax feature may not work correctly.

- 1 Connect the adapter to the telephone cord that came with the printer.



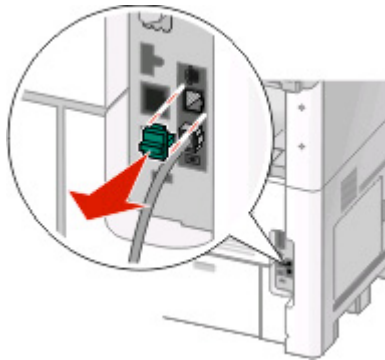
Note: The UK adapter is shown. Your adapter may look different, but it will fit the telephone outlet used in your location.

- 2 Connect the telephone line of your chosen telecommunications equipment to the left outlet of the adapter.



If your telecommunications equipment uses a US-style (RJ11) telephone line, follow these steps to connect the equipment:

- 1 Remove the plug from the EXT port  on the back of the printer.



Note: Once this plug is removed, any country- or region-specific equipment you connect to the printer by way of the adapter, as shown, will not function properly.



- 2 Connect your telecommunications equipment directly to the EXT port  on the back of the printer.



Warning—Potential Damage: Do not touch cables or the printer in the area shown while actively sending or receiving a fax.

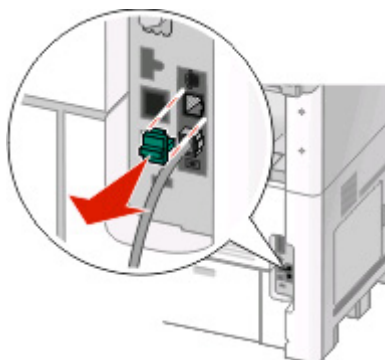


Country/region

- Saudi Arabia
- United Arab Emirates
- Egypt
- Bulgaria
- Czech Republic
- Belgium
- Australia
- South Africa
- Greece
- Israel
- Hungary
- Poland
- Romania
- Russia
- Slovenia
- Spain
- Turkey

To connect a telephone, an answering machine, or other telecommunications equipment to the printer:

- 1 Remove the plug from the back of the printer.



- 2 Connect your telecommunications equipment directly to the EXT port  on the back of the printer.



Note: Once this plug is removed, any country- or region-specific equipment that you connect to the printer by way of the adapter, as shown, will not function properly.



Country/region

- Germany
- Austria
- Switzerland

There is a plug installed in the EXT port  of the printer. This plug is necessary for the proper functioning of the printer.



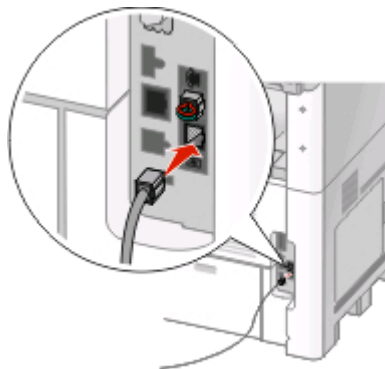
Note: Do not remove the plug. If you remove it, other telecommunications devices in your home (such as telephones or answering machines) may not work.

Connecting directly to a telephone wall jack in Germany

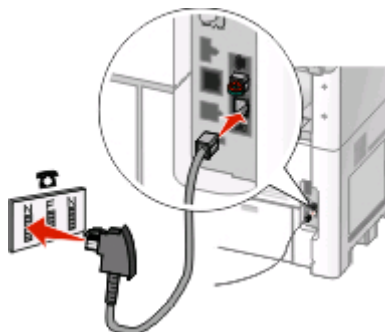
Connect the printer directly to a telephone wall jack to send and receive faxes without using a computer.

Note: In Germany (and some other countries), the printer ships with a special RJ-11 plug in the EXT port. Do not remove the RJ-11 plug. It is required for both the fax and telephone to work properly.

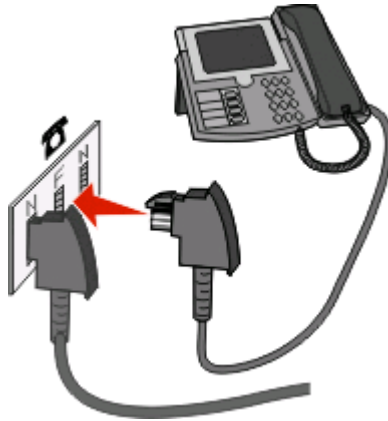
- 1 Make sure you have a telephone cord (provided with the product) and a telephone wall jack.
- 2 Connect one end of the telephone cord into the LINE port of the printer.



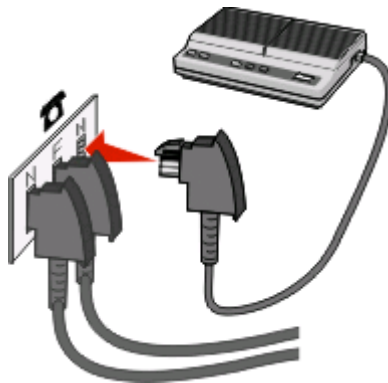
- 3 Connect the other end of the telephone cord into the N slot of an active telephone wall jack.



- 4** If you would like to use the same line for both fax and telephone communication, connect a second telephone line (not provided) between the telephone and the F slot of an active telephone wall jack.



- 5** If you would like to use the same line for recording messages on your answering machine, connect a second telephone line (not provided) between the answering machine and the other N slot of the telephone wall jack.



Connecting to a telephone

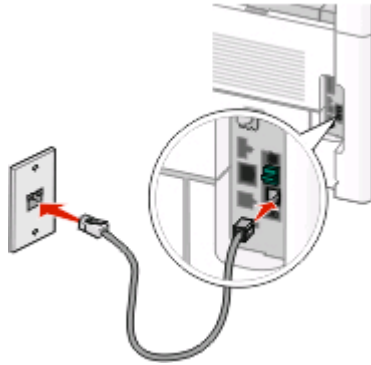
Connect a telephone to the printer to use the fax line as a normal telephone line. Then set up the printer wherever your telephone is located to make copies or to send and receive faxes without using a computer.

Note: Setup steps may vary depending on your country or region.

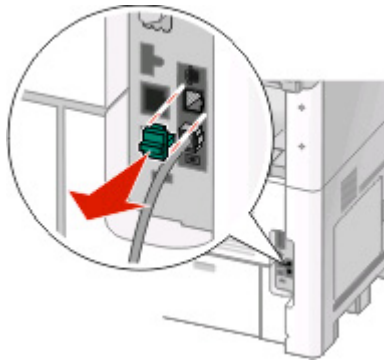
- 1** Make sure you have the following:

- A telephone
- Two telephone cords
- A telephone wall jack

- 2 Connect one telephone cord to the LINE port  of the printer, and then plug it into an active telephone wall jack.



- 3 Remove the protective plug from the EXT port  of the printer.



- 4 Connect the other telephone cord to a telephone, and then plug it into the EXT port  of the printer.



Connecting to an answering machine

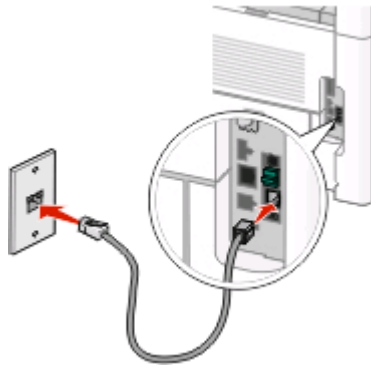
Connect an answering machine to the printer to receive both incoming voice messages and faxes.

Note: Setup steps may vary depending on your country or region.

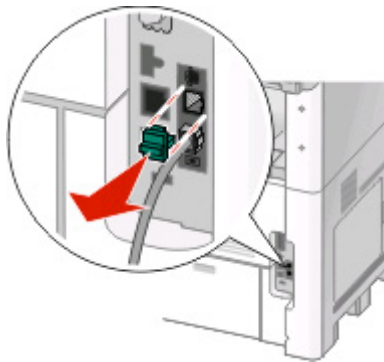
- 1 Make sure you have the following:

- A telephone
- An answering machine
- Three telephone cords
- A telephone wall jack

- 2** Connect one telephone cord into the LINE port  of the printer, and then plug it into an active telephone wall jack.



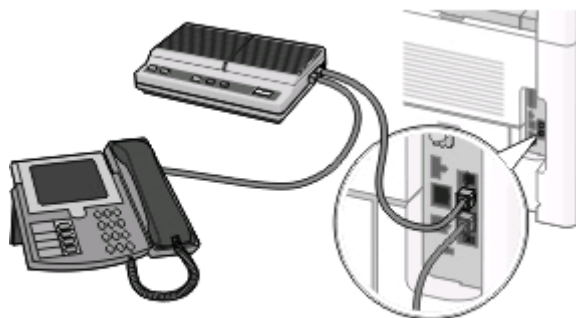
- 3** Remove the protective plug from the EXT port  of the printer.



- 4** Connect a second telephone cord from the telephone to the answering machine.



- 5** Connect a third telephone cord from the answering machine to the EXT port  of the printer.



Connecting to a computer with a modem

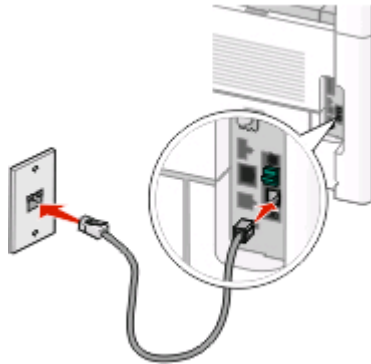
Connect the printer to a computer with a modem to send faxes from the software program.

Note: Setup steps may vary depending on your country or region.

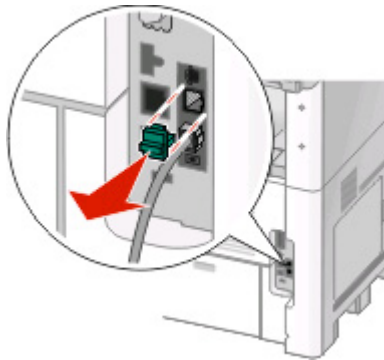
1 Make sure you have the following:

- A telephone
- A computer with a modem
- Three telephone cords
- A telephone wall jack

2 Connect a telephone cord into the LINE  port of the printer, and then plug it into an active telephone wall jack.



3 Remove the protective plug from the EXT port  of the printer.

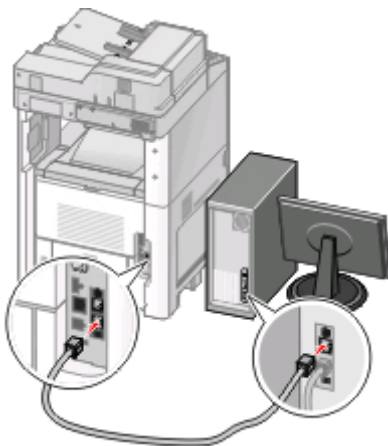


4 Connect a second telephone cord from the telephone to the computer modem.



Additional printer setup

- 5 Connect a third telephone cord from the computer modem to the EXT port  of the printer.



Setting the outgoing fax name and number

To have the designated fax name and fax number printed on outgoing faxes:

- 1 Type the printer IP address into the address field of your Web browser.
Note: If you do not know the IP address of the printer, then print a network setup page and locate the IP address in the TCP/IP section.
- 2 Click **Settings**.
- 3 Click **Fax Settings**.
- 4 Click **Analog Fax Setup**.
- 5 Click inside the Station Name box, and then enter the name to be printed on all outgoing faxes.
- 6 Click inside the Station Number box, and then enter the printer fax number.
- 7 Click **Submit**.

Setting the date and time

You can set the date and time so that they are printed on every fax you send. If there is a power failure, then you may have to reset the date and time. To set the date and time:

- 1 Type the printer IP address into the address field of your Web browser.
Note: If you do not know the IP address of the printer, then print a network setup page and locate the IP address in the TCP/IP section.
- 2 Click **Links & Index**.
- 3 Click **Set Date and Time**.
- 4 Click inside the Manually Set Date & Time box, and then enter the current date and time.
- 5 Click **Submit**.

Turning Daylight Saving Time on

The printer can be set to automatically adjust for Daylight Saving Time (DST):

- 1** Type the printer IP address into the address field of your Web browser.
Note: If you do not know the IP address of the printer, then print a network setup page and locate the IP address in the TCP/IP section.
- 2** Click **Links & Index**.
- 3** Click **Set Date and Time**.
- 4** Select **Automatically Observe DST**.
- 5** Click **Submit**.

Loading paper and specialty media

This section explains how to load the 250-, 500-, and 2000-sheet trays, and the multipurpose feeder. It also includes information about paper orientation, setting the Paper Size and Paper Type, and linking and unlinking trays.

Setting the Paper Size and Paper Type

The Paper Size setting is determined by the position of the paper guides in the tray for all trays except the multipurpose feeder. The Paper Size setting for the multipurpose feeder must be set manually. The factory default Paper Type setting is Plain Paper. The Paper Type setting must be set manually for all trays that do not contain plain paper.

- 1 Make sure the printer is on and **Ready** appears.
- 2 On the home screen, touch .
- 3 Touch **Paper Menu**.
- 4 Touch **Paper Size/Type**.
- 5 Touch the arrows for the desired tray until the correct size or type setting appears.
- 6 Touch **Submit**.
- 7 Touch  to return to the home screen.

Configuring Universal paper settings

The Universal Paper Size is a user-defined setting that lets you print on paper sizes that are not preset in the printer menus. Set the Paper Size for the specified tray to Universal when the size you want is not available from the Paper Size menu. Then, specify all of the following Universal size settings for your paper:

- Units of measure (millimeters or inches)
- Portrait Width
- Portrait Height

Note: The smallest supported Universal size is 76 x 76 mm (3 x 3 in.); the largest size is 216 x 356 mm (8.5 x 14 in.).

Specify a unit of measurement

- 1 Make sure the printer is on and **Ready** appears.
- 2 On the home screen, touch .
- 3 Touch **Paper Menu**.
- 4 Touch the down arrow until **Universal Setup** appears, and then touch **Universal Setup**.
- 5 Touch the left or right arrow to select the desired unit of measure.
- 6 Touch **Portrait Width** or **Portrait Height**.
- 7 Touch the arrows to select the desired width or height.

8 Touch **Submit** to save your selection.

Submitting Selection appears, followed by the Paper menu.

9 Touch  to return to the home screen.

Loading the standard or optional 250-sheet or 550-sheet tray

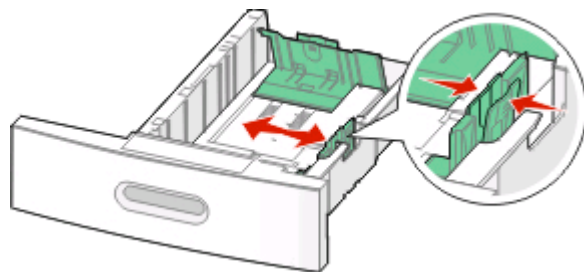
Although the 250-sheet tray and the 550-sheet tray are different in appearance, they require the same process for loading paper. Use these instructions to load paper in either tray:

1 Pull the tray out.

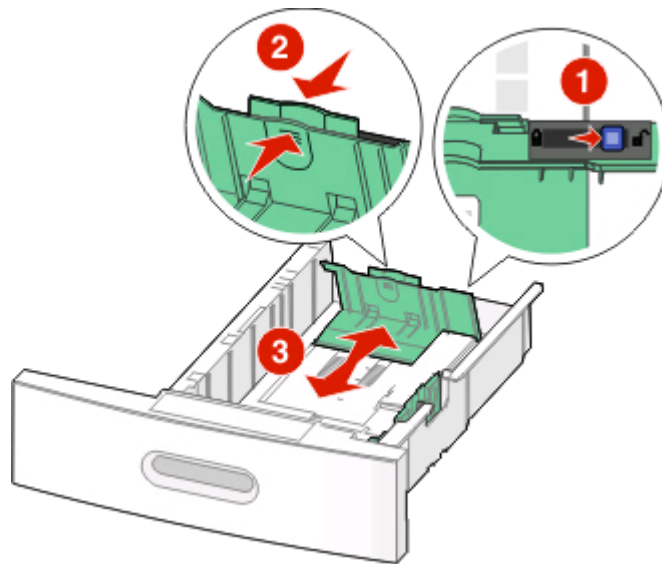
Note: Do not remove trays while a job prints or while **Busy** appears on the display. Doing so may cause a jam.



2 Squeeze the width guide tab inward as shown, and move the width guide to the correct position for the paper size being loaded.



- 3** Unlock the length guide, squeeze the length guide tab inward as shown, and slide the guide to the correct position for the paper size being loaded.



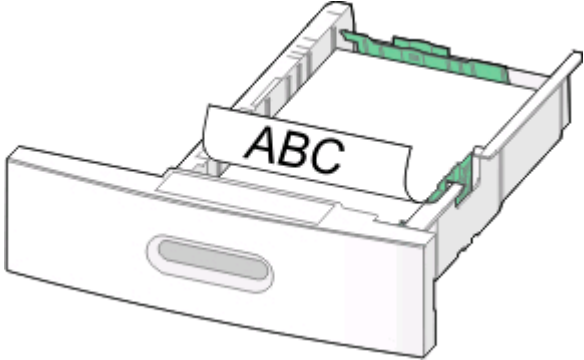
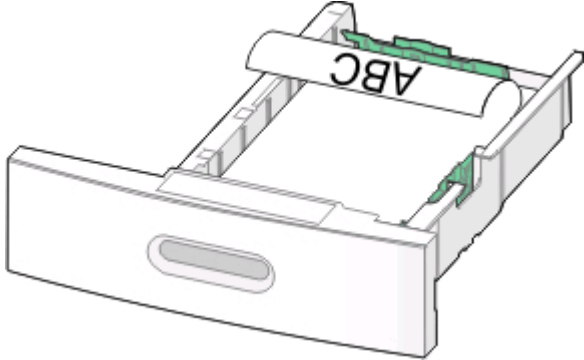
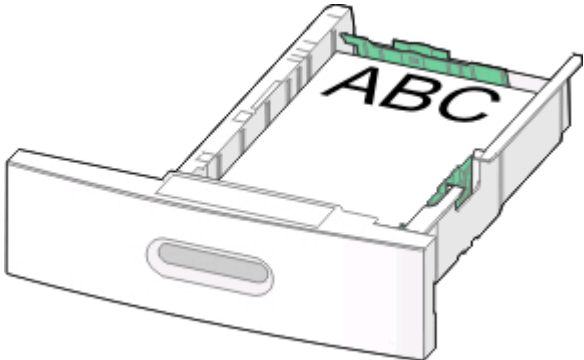
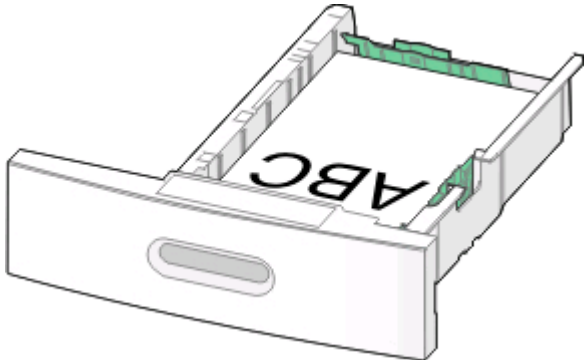
Notes:

- Use the size indicators on the bottom of the tray to help position the guides.
 - For standard paper sizes, lock the length guide.
- 4** Flex the sheets back and forth to loosen them, and then fan them. Do not fold or crease the paper. Straighten the edges on a level surface.

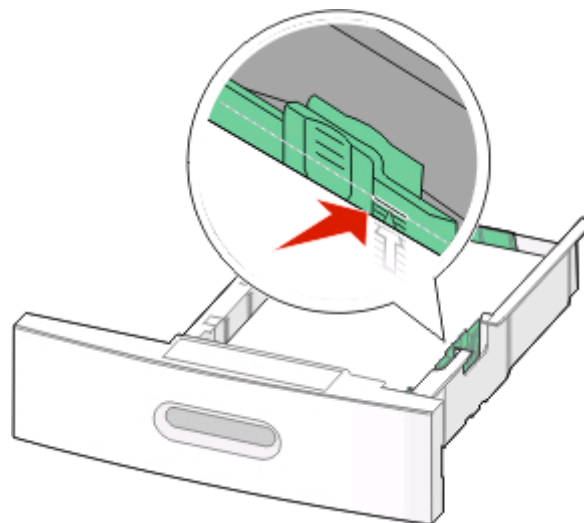


- 5** Load the paper stack:
- Print side facedown for single-sided printing
 - Print side faceup for duplex printing

Note: Paper must be loaded differently in the trays if an optional StapleSmart™ II Finisher is installed.

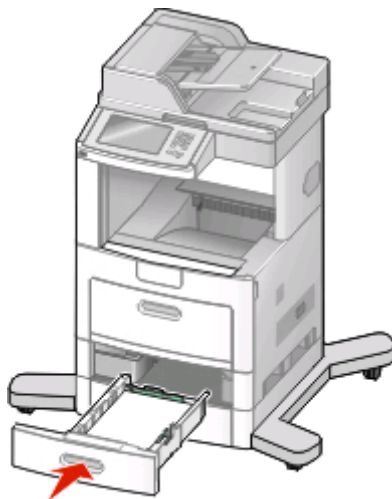
Without an optional StapleSmart II Finisher	With an optional StapleSmart II Finisher
 Single-sided printing	 Single-sided printing
 Duplex (two-sided) printing	 Duplex (two-sided) printing

Note: Notice the maximum fill line on the side of the tray which indicates the maximum height for loading paper. Do not overload the tray.



- 6 If necessary, adjust the paper guides to lightly touch the sides of the stack, and lock the length guide for the paper sizes indicated on the tray.

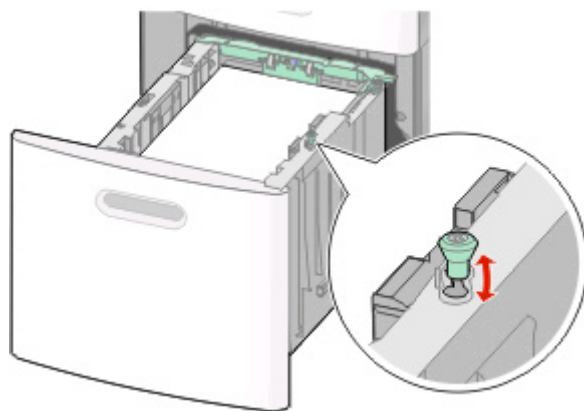
- 7 Insert the tray.



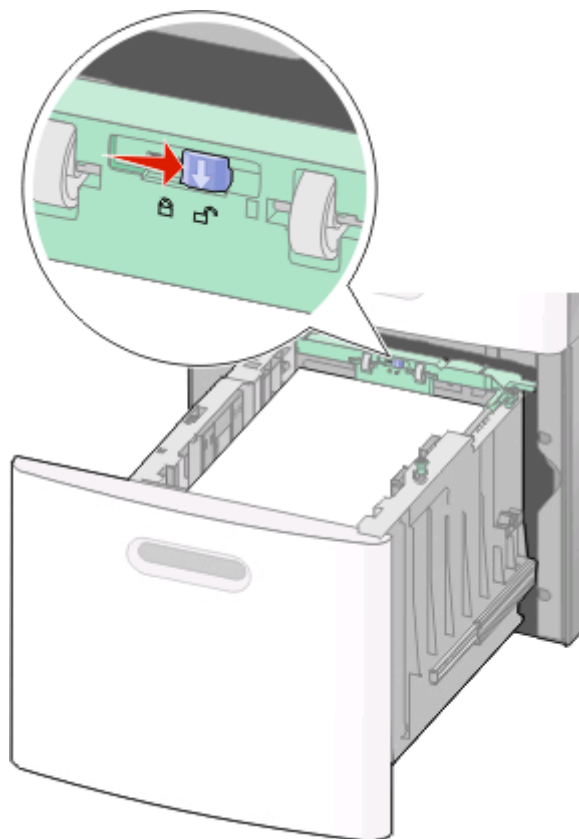
- 8 If a different type of paper was loaded than the type previously loaded in the tray, then change the Paper Type setting for the tray from the printer control panel.

Loading the 2000-sheet tray

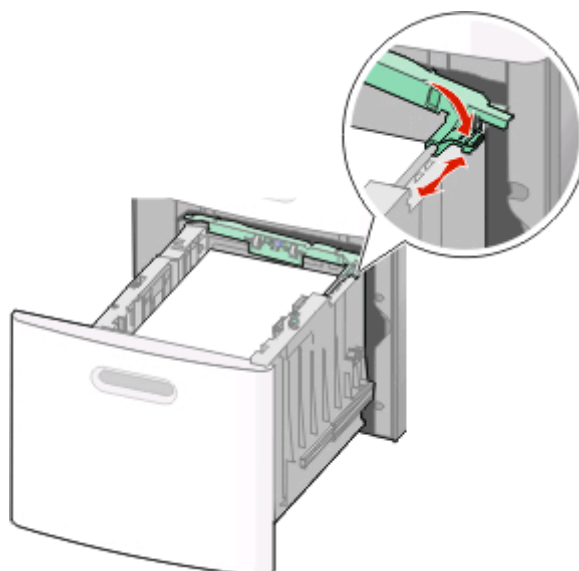
- 1 Pull the tray out.
- 2 Pull up and slide the width guide to the correct position for the paper size being loaded.



- 3** Unlock the length guide.



- 4** Push the length guide release latch to raise the length guide, slide the guide to the correct position for the paper size being loaded, and then lock the guide.

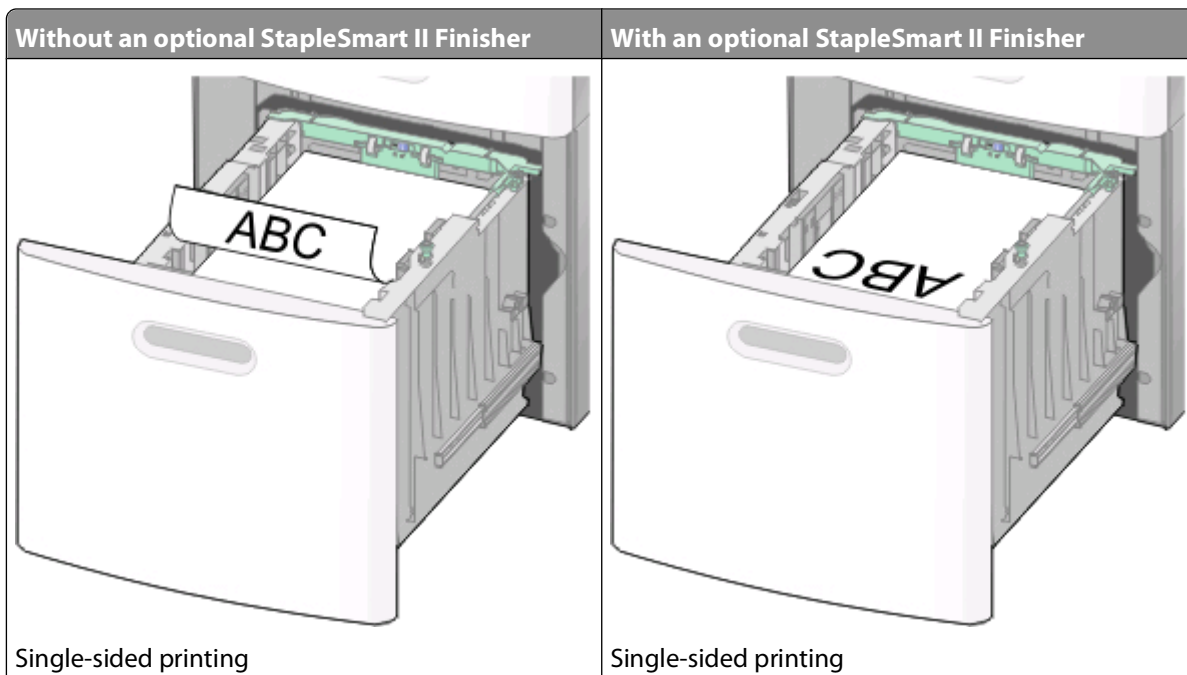


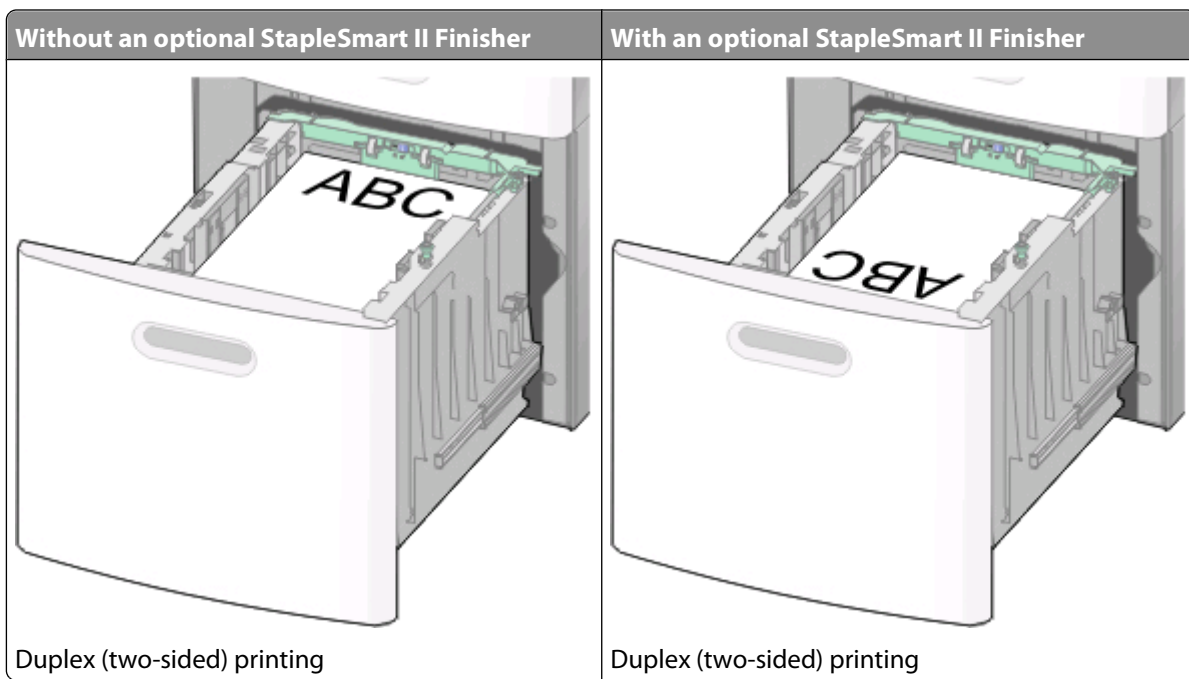
- 5 Flex the sheets back and forth to loosen them, and then fan them. Do not fold or crease the paper. Straighten the edges on a level surface.



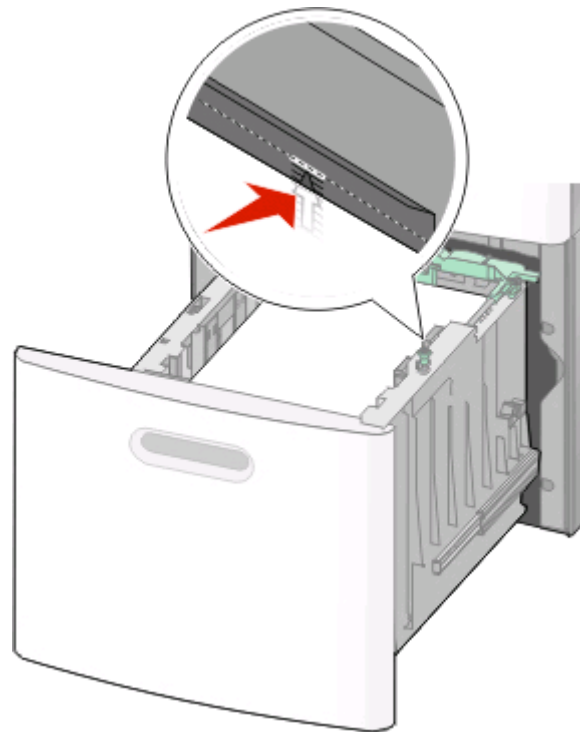
- 6 Load the paper stack:
- Print side facedown for single-sided printing
 - Print side faceup for duplex printing

Note: Paper must be loaded differently in the trays if an optional StapleSmart II Finisher is installed.





Note: Notice the maximum fill line on the side of the tray which indicates the maximum height for loading paper. Do not overload the tray.



7 Insert the tray.

Loading the multipurpose feeder

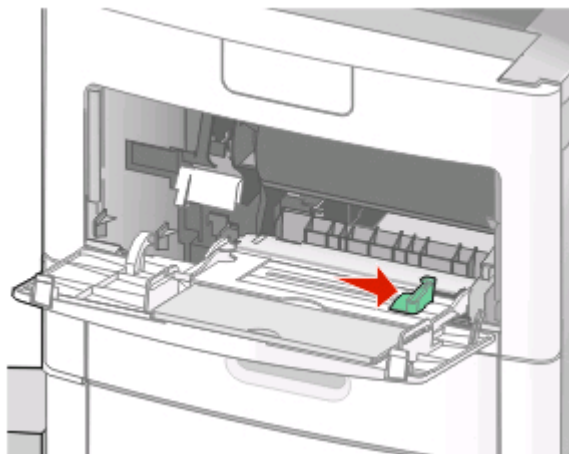
- 1 Pull down the multipurpose feeder door.



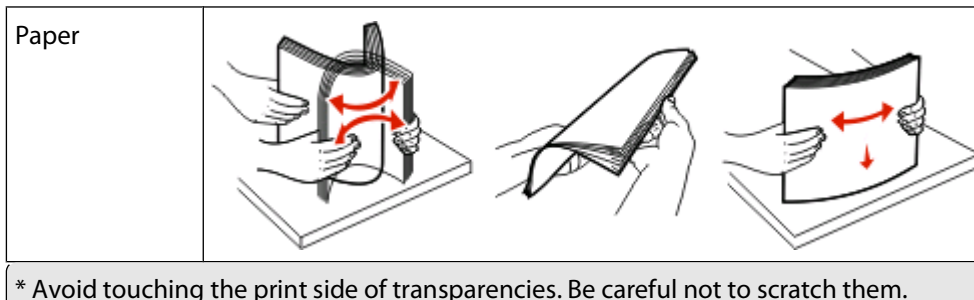
- 2 Pull out the extension until it is fully extended.



- 3 Slide the width guide to the far right.



- 4 Flex the sheets of paper or specialty media back and forth to loosen them, and then fan them. Do not fold or crease them. Straighten the edges on a level surface.



Envelopes	
Transparencies*	

* Avoid touching the print side of transparencies. Be careful not to scratch them.

- 5** Load the paper or specialty media. Slide the stack gently into the multipurpose feeder until it comes to a stop.

Without an optional StapleSmart Finisher	With an optional StapleSmart Finisher
 Single-sided printing	 Single-sided printing
 Duplex (two-sided) printing	 Duplex (two-sided) printing

Notes:

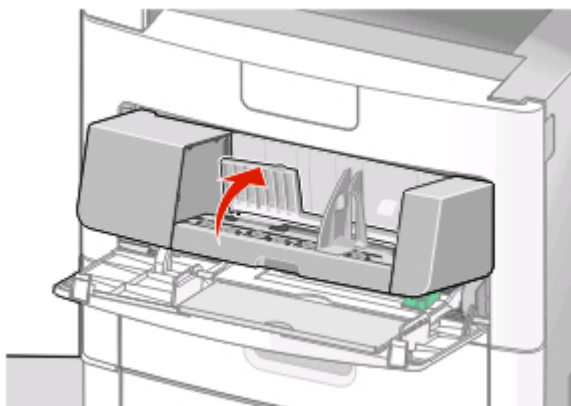
- Do not exceed the maximum stack height by forcing paper under the stack height limiter.
- Do not load or close a tray while a job is printing.
- Load only one size and type of media at a time.
- Load envelopes with the flap side up.

Warning—Potential Damage: Never use envelopes with stamps, clasps, snaps, windows, coated linings, or self-stick adhesives. These envelopes may severely damage the printer.

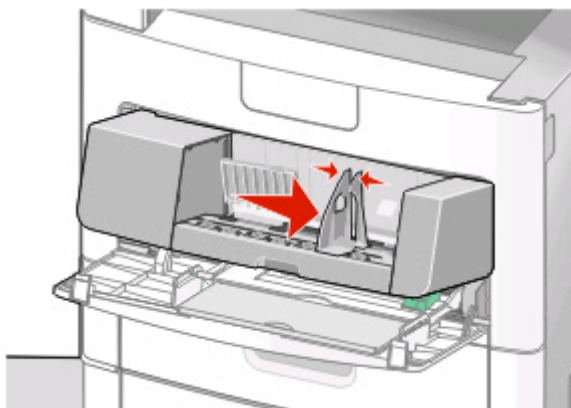
- 6 Adjust the width guide to lightly touch the edge of the paper stack. Make sure the paper fits loosely in the multipurpose feeder, lies flat, and is not bent or wrinkled.
- 7 From the printer control panel, set the Paper Size and Paper Type.

Loading the envelope feeder

- 1 Adjust the envelope support for the length of envelope you are loading:
 - **Short envelopes**—Fully close the envelope support.
 - **Medium-length envelopes**—Extend the envelope support to the middle position.
 - **Long envelopes**—Fully open the envelope support.
- 2 Lift the envelope weight back toward the printer.



- 3 Slide the width guide to the right.



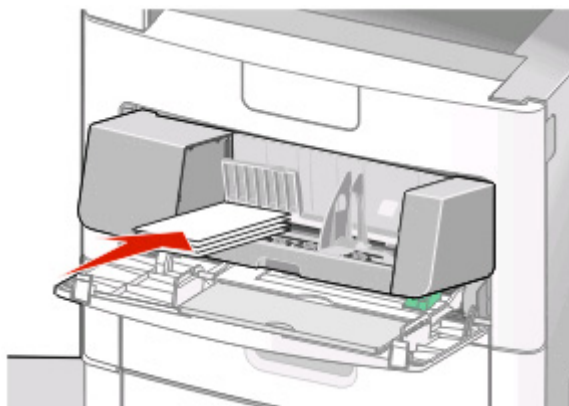
4 Prepare the envelopes for loading.

Flex the envelopes back and forth to loosen them, and then fan them. Do not fold or crease the paper. Straighten the edges on a level surface.



5 Load the stack of envelopes flap side down.

Warning—Potential Damage: Never use envelopes with stamps, clasps, snaps, windows, coated linings, or self-stick adhesives. These envelopes may severely damage the printer.



Note: Do not exceed the maximum stack height by forcing paper under the stack height limiter.

6 Adjust the width guide to lightly touch the edge of the paper stack.

7 Lower the envelope weight to touch the paper stack.

8 From the printer control panel, set the Paper Size and Paper Type.

Linking and unlinking trays

Linking trays

Tray linking is useful for large print jobs or multiple copies. When one linked tray is empty, paper feeds from the next linked tray. When the Paper Size and Paper Type settings are the same for any trays, the trays are automatically linked.

The printer automatically senses the Paper Size setting according to the position of the paper guides in each tray except the multipurpose feeder. The printer can sense A4, A5, JIS B5, Letter, Legal, Executive, and Universal paper sizes. The multipurpose feeder and trays using other paper sizes can be linked manually using the Paper Size menu available from the Paper Size/Type menu.

Note: To link the multipurpose feeder, Configure MP must be set to Cassette in the Paper menu in order for MP Feeder Size to appear as a menu item.

The Paper Type setting must be set for all trays from the Paper Type menu available from the Paper Size/Type menu.

Unlinking trays

Unlinked trays have settings that are *not* the same as the settings of any other tray.

To unlink a tray, change the following tray settings so that they do not match the settings of any other tray:

- **Paper Type** (for example: Plain Paper, Letterhead, Custom Type <x>)
Paper Type names describe the paper characteristics. If the name that best describes your paper is used by linked trays, assign a different Paper Type name to the tray, such as Custom Type <x>, or define your own custom name.
- **Paper Size** (for example: letter, A4, statement)
Load a different paper size to change the Paper Size setting for a tray automatically. Paper Size settings for the multipurpose feeder are not automatic; they must be set manually from the Paper Size menu.

Warning—Potential Damage: Do not assign a Paper Type name that does not accurately describe the type of paper loaded in the tray. The temperature of the fuser varies according to the specified Paper Type. Paper may not be properly processed if an inaccurate Paper Type is selected.

Assigning a custom paper type name

Assign a custom paper type name to a tray when linking or unlinking the tray.

- 1 Make sure the printer is on and **Ready** appears.
- 2 From the home screen, touch .
- 3 Touch **Paper Menu**.
- 4 Touch **Paper Size/Type**.
- 5 Touch the paper type arrows for the desired tray until the correct custom type appears.
- 6 Touch the tray number or **MP Feeder Type**.
- 7 Touch **Submit**.

Changing a Custom Type <x> name

You can use the Embedded Web Server or MarkVision™ to define a name other than Custom Type <x> for each of the custom paper types that are loaded. When a Custom Type <x> name is changed, the menus display the new name instead of Custom Type <x>.

To change a Custom Type <x> name from the Embedded Web Server:

- 1 Type the printer IP address into the address field of your Web browser.
Note: If you do not know the IP address of the printer, then print a network setup page and locate the IP address in the TCP/IP section.
- 2 Click **Settings**.
- 3 Under Default Settings, click **Paper Menu**.
- 4 Click **Custom Names**.
- 5 Type a name for the paper type in a Custom Name <x> box.
Note: This custom name will replace a custom type <x> name under the Custom Types and Paper Size/Type menus.
- 6 Click **Submit**.

7 Click **Custom Types**.

Custom Types appears, followed by your custom name.

8 Select a Paper Type setting from the list next to your custom name.

9 Click **Submit**.

Paper and specialty media guidelines

Paper guidelines

Selecting the correct paper or specialty media reduces printing problems. For the best print quality, try a sample of the paper or specialty media before buying large quantities.

Paper characteristics

The following paper characteristics affect print quality and reliability. Consider these characteristics when evaluating new paper stock.

Note: For detailed information on card stock and labels, see the *Card Stock & Label Guide* available on the Lexmark Web site at www.lexmark.com/publications.

Weight

The printer can automatically feed paper weights from 60–176 g/m² (16–47 lb bond) grain long. Paper lighter than 60 g/m² (16 lb) might not be stiff enough to feed properly, causing jams. For best performance, use 75 g/m² (20 lb bond) grain long paper. For paper smaller than 182 x 257 mm (7.2 x 10.1 in.), we recommend 90 g/m² (24 lb) or heavier paper.

Curl

Curl is the tendency for paper to curl at its edges. Excessive curl can cause paper feeding problems. Curl can occur after the paper passes through the printer, where it is exposed to high temperatures. Storing paper unwrapped in hot, humid, cold, or dry conditions, even in the trays, can contribute to paper curling prior to printing and can cause feeding problems.

Smoothness

Paper smoothness directly affects print quality. If paper is too rough, then toner cannot fuse to it properly. If paper is too smooth, then it can cause paper feeding or print quality issues. Always use paper between 100 and 300 Sheffield points; smoothness between 150 and 250 Sheffield points produces the best print quality.

Moisture content

The amount of moisture in paper affects both print quality and the ability of the printer to feed the paper correctly. Leave paper in its original wrapper until it is time to use it. This limits the exposure of paper to moisture changes that can degrade its performance.

Condition paper before printing by storing it in its original wrapper in the same environment as the printer for 24 to 48 hours before printing. Extend the time several days if the storage or transportation environment is very different from the printer environment. Thick paper may also require a longer conditioning period.

Grain direction

Grain refers to the alignment of the paper fibers in a sheet of paper. Grain is either *grain long*, running the length of the paper, or *grain short*, running the width of the paper.

For 60–176 g/m² (16–47 lb bond) paper, grain long paper is recommended. For paper heavier than 176 g/m², grain short is recommended.

Fiber content

Most high-quality xerographic paper is made from 100% chemically treated pulped wood. This content provides the paper with a high degree of stability resulting in fewer paper feeding problems and better print quality. Paper containing fibers such as cotton can negatively affect paper handling.

For detailed information on paper with recycled fiber content, see “Using recycled paper and other office papers” on page 88.

Unacceptable paper

The following paper types are not recommended for use with the printer:

- Chemically treated papers used to make copies without carbon paper, also known as carbonless papers, carbonless copy paper (CCP), or no carbon required (NCR) paper
- Preprinted papers with chemicals that may contaminate the printer
- Preprinted papers that can be affected by the temperature in the printer fuser
- Preprinted papers that require a registration (the precise print location on the page) greater than ± 2.3 mm (± 0.9 in.), such as optical character recognition (OCR) forms

In some cases, registration can be adjusted with a software application to successfully print on these forms.

- Coated papers (erasable bond), synthetic papers, thermal papers
- Rough-edged, rough or heavily textured surface papers, or curled papers
- Recycled papers that fail EN12281:2002 (European)
- Paper weighing less than 60 g/m² (16 lb)
- Multiple-part forms or documents

Selecting paper

Using appropriate paper prevents jams and helps ensure trouble-free printing.

To help avoid jams and poor print quality:

- *Always* use new, undamaged paper.
- Before loading paper, know the recommended print side of the paper. This information is usually indicated on the paper package.
- *Do not* use paper that has been cut or trimmed by hand.
- *Do not* mix paper sizes, types, or weights in the same source; mixing results in jams.
- *Do not* use coated papers unless they are specifically designed for electrophotographic printing.

Selecting preprinted forms and letterhead

Use these guidelines when selecting preprinted forms and letterhead:

- Use grain long for 60 to 90 g/m² weight paper.
- Use only forms and letterhead printed using an offset lithographic or engraved printing process.
- Avoid papers with rough or heavily textured surfaces.

Use papers printed with heat-resistant inks designed for use in xerographic copiers. The ink must be able to withstand temperatures up to 230°C (446°F) without melting or releasing hazardous emissions. Use inks that are not affected by the resin in toner. Inks that are oxidation-set or oil-based generally meet these requirements; latex inks might not. When in doubt, contact the paper supplier.

Preprinted papers such as letterhead must be able to withstand temperatures up to 230°C (446°F) without melting or releasing hazardous emissions.

Using recycled paper and other office papers

As an environmentally conscious company, Lexmark supports the use of recycled office paper produced specifically for use in laser (electrophotographic) printers. In 1998, Lexmark presented to the US government a study demonstrating that recycled paper produced by major mills in the US fed as well as non-recycled paper. However, no blanket statement can be made that *all* recycled paper will feed well.

Lexmark consistently tests its printers with recycled paper (20–100% post-consumer waste) and a variety of test paper from around the world, using chamber tests for different temperature and humidity conditions. Lexmark has found no reason to discourage the use of today's recycled office papers, but generally the following property guidelines apply to recycled paper.

- Low moisture content (4–5%)
- Suitable smoothness (100–200 Sheffield units, or 140–350 Bendtsen units, European)

Note: Some much smoother papers (such as premium 24 lb laser papers, 50–90 Sheffield units) and much rougher papers (such as premium cotton papers, 200–300 Sheffield units) have been engineered to work very well in laser printers, despite surface texture. Before using these types of paper, consult your paper supplier.

- Suitable sheet-to-sheet coefficient of friction (0.4–0.6)
- Sufficient bending resistance in the direction of feed

Recycled paper, paper of lower weight (<60 g/m² [16 lb bond]) and/or lower caliper (<3.8 mils [0.1 mm]), and paper that is cut grain-short for portrait (or short-edge) fed printers may have lower bending resistance than is required for reliable paper feeding. Before using these types of paper for laser (electrophotographic) printing, consult your paper supplier. Remember that these are general guidelines only and that paper meeting these guidelines may still cause paper feeding problems in any laser printer (for example, if the paper curls excessively under normal printing conditions).

Storing paper

Use these paper storage guidelines to help avoid jams and uneven print quality:

- For best results, store paper where the temperature is 21°C (70°F) and the relative humidity is 40%. Most label manufacturers recommend printing in a temperature range of 18 to 24°C (65 to 75°F) with relative humidity between 40 and 60%.
- Store paper in cartons when possible, on a pallet or shelf, rather than on the floor.
- Store individual packages on a flat surface.
- Do not store anything on top of individual paper packages.

Supported paper sizes, types, and weights

The following tables provide information on standard and optional paper sources and the types of paper they support.

Note: For an unlisted paper size, configure a Universal Paper Size.

For information on card stock and labels, see the *Card Stock & Label Guide* on the Lexmark Web site at www.lexmark.com/publications.

Paper sizes supported by the printer

Paper size	Dimensions	250- or 550-sheet trays (standard or optional)	Optional 2000-sheet tray	Multipurpose feeder	Duplex unit
A4	210 x 297 mm (8.3 x 11.7 in.)	✓	✓	✓	✓
A5	148 x 210 mm (5.8 x 8.3 in.)	✓	X	✓	✓
A6 ^{1,2}	105 x 148 mm (4.1 x 5.8 in.)	X	X	✓	X
JIS B5	182 x 257 mm (7.2 x 10.1 in.)	✓	X	✓	✓
Letter	216 x 279 mm (8.5 x 11 in.)	✓	✓	✓	✓
Legal	216 x 356 mm (8.5 x 14 in.)	✓	✓	✓	✓
Executive	184 x 267 mm (7.3 x 10.5 in.)	✓	X	✓	✓
Oficio ¹	216 x 340 mm (8.5 x 13.4 in.)	✓	X	✓	✓
Folio ¹	216 x 330 mm (8.5 x 13 in.)	✓	X	✓	✓
Statement ¹	140 x 216 mm (5.5 x 8.5 in.)	✓	X	✓	X

¹ This size appears in the Paper Size menu only when the paper source does not support size sensing or when size sensing is turned off.

² Only the standard exit bin supports this size.

³ This size setting formats the page for 216 x 356 mm (8.5 x 14 in.) unless the size is specified by the software application.

⁴ To support duplexing, the Universal width must be between 148 mm (5.8 in) and 216 mm (8.5 in); Universal length must be between 182 mm (7.2 in) and 356 mm (14 in).

Paper size	Dimensions	250- or 550-sheet trays (standard or optional)	Optional 2000-sheet tray	Multipurpose feeder	Duplex unit
Universal ^{3,4}	138 x 210 mm (5.5 x 8.3 in.) up to 216 x 356 mm (8.5 x 14 in.)	✓	X	✓	X
	70 x 127 mm (2.8 x 5 in.) up to 216 x 356 mm (8.5 x 14 in.)	X	X	✓	X
	148 x 182 mm (5.8 x 7.7 in.) up to 216 x 356 mm (8.5 x 14 in.)	✓	X	✓	✓
7 3/4 Envelope (Monarch)	98 x 191 mm (3.9 x 7.5 in.)	X	X	✓	X
9 Envelope	98 x 225 mm (3.9 x 8.9 in.)	X	X	✓	X
10 Envelope	105 x 241 mm (4.1 x 9.5 in.)	X	X	✓	X
DL Envelope	110 x 220 mm (4.3 x 8.7 in.)	X	X	✓	X
Other Envelope	98 x 162 mm (3.9 x 6.4 in.) to 176 x 250 mm (6.9 x 9.8 in.)	X	X	✓	X

¹ This size appears in the Paper Size menu only when the paper source does not support size sensing or when size sensing is turned off.

² Only the standard exit bin supports this size.

³ This size setting formats the page for 216 x 356 mm (8.5 x 14 in.) unless the size is specified by the software application.

⁴ To support duplexing, the Universal width must be between 148 mm (5.8 in) and 216 mm (8.5 in); Universal length must be between 182 mm (7.2 in) and 356 mm (14 in).

Note: An optional 250-sheet Universally Adjustable Tray is available for sizes smaller than A5, such as index cards.

Paper types and weights supported by the printer

The printer engine supports 60–176 g/m² (16–47 lb) paper weights. The duplex unit supports 63–170 g/m² (17–45 lb) paper weights.

Paper type	250- or 550-sheet trays (standard or optional)	Optional 2000-sheet tray	Multipurpose feeder	Duplex unit
Paper • Plain • Bond • Colored • Custom • Letterhead • Light • Heavy • Preprinted • Rough/Cotton • Recycled	✓	✓	✓	✓
Card stock	✓	✓	✓	✓
Envelopes	X	X	✓	X
Labels ¹ • Paper • Vinyl	✓	✓	✓	✓
Transparencies	✓	✓	✓	✓
¹ Printing labels requires a special label fuser cleaner which prevents duplexing. The label fuser cleaner is included with the special cartridge required for label applications.				

Paper types and weights supported by the finisher

Use this table to determine the possible output destinations of print jobs which use supported paper types and weights. The paper capacity of each output bin is listed in parentheses. Paper capacity estimations are calculated based on 75 g/m² (20 lb) paper.

The Finisher supports 60–176 g/m² (16–47 lb) paper weights.

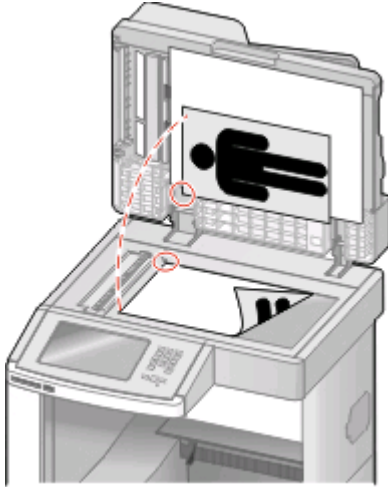
Paper type	Finisher standard bin (250 or 550 sheets)	Output Expander (550 sheets) or High Capacity Output Stacker (1850 sheets)	5-Bin Mailbox (500 sheets) ¹	StapleSmart Finisher (500 sheets ²)
Paper • Plain • Bond • Colored • Custom • Letterhead • Light • Heavy • Preprinted • Rough/Cotton • Recycled	✓	✓	✓	✓
Card stock	✓	✓	X	✓
Envelopes	✓	✓	X	X
Labels ³ • Paper • Vinyl	✓	✓	X	X
Transparencies	✓	✓	X	X

¹ Supports 60-90 g/m² (16-24 lb) paper weights.

² Maximum of 50 sheets per stapled packet.

³ Printing labels requires a special label fuser cleaner which prevents duplexing. The label fuser cleaner is included with the special cartridge required for label applications.

Copying

ADF	Scanner glass
 Use the ADF for multiple-page documents.	 Use the scanner glass for single pages, small items (such as postcards or photos), transparencies, photo paper, or thin media (such as magazine clippings).

Making copies

Making a quick copy

- 1 Load an original document faceup, short edge first into the ADF or facedown on the scanner glass.
Note: Do not load postcards, photos, small items, transparencies, photo paper, or thin media (such as magazine clippings) into the ADF. Place these items on the scanner glass.
- 2 If you are loading a document into the ADF, then adjust the paper guides.
- 3 From the printer control panel, press .
- 4 If you placed the document on the scanner glass, then touch **Finish the Job** to return to the home screen.

Copying using the ADF

- 1 Load an original document faceup, short edge first into the ADF.
Note: Do not load postcards, photos, small items, transparencies, photo paper, or thin media (such as magazine clippings) into the ADF. Place these items on the scanner glass.
- 2 Adjust the paper guides.
- 3 On the home screen, touch **Copy**, or use the keypad to enter the number of copies.
The copy screen appears.

- 4 Change the copy settings as needed.
- 5 Touch **Copy It**.

Copying using the scanner glass

- 1 Place an original document facedown on the scanner glass in the upper left corner.
- 2 On the home screen, touch **Copy**, or use the keypad to enter the number of copies.
The copy screen appears.
- 3 Change the copy settings as needed.
- 4 Touch **Copy It**.
- 5 If you have more pages to scan, then place the next document on the scanner glass, and then touch **Scan the Next Page**.
- 6 Touch **Finish the Job** to return to the home screen.

Copying photos

- 1 Place a photo facedown on the scanner glass in the upper left corner.
- 2 On the home screen, touch **Copy**.
- 3 Touch **Options**.
- 4 Touch **Content**.
- 5 Touch **Photograph**.
- 6 Touch **Done**.
- 7 Touch **Copy It**.
- 8 Touch **Scan the Next Page** or **Finish the Job**.

Copying on specialty media

Making transparencies

- 1 Load an original document faceup, short edge first into the ADF or facedown on the scanner glass.
Note: Do not load postcards, photos, small items, transparencies, photo paper, or thin media (such as magazine clippings) into the ADF. Place these items on the scanner glass.
- 2 If you are loading a document into the ADF, then adjust the paper guides.
- 3 On the home screen, touch **Copy**.
- 4 Touch **Copy from**, and then identify the size of the original document.
- 5 Touch **Copy to**, and then touch the tray that contains transparencies, or touch **Manual Feeder** and then place transparencies in the multipurpose feeder.
- 6 Touch the desired size of the transparencies, and then touch **Continue**.

- 7 Touch the arrows until **Transparency** appears.
- 8 Touch **Transparency**, and then touch **Continue**.
- 9 Touch **Copy It**.

Copying to letterhead

- 1 Load an original document faceup, short edge first into the ADF or facedown on the scanner glass.
Note: Do not load postcards, photos, small items, transparencies, photo paper, or thin media (such as magazine clippings) into the ADF. Place these items on the scanner glass.
- 2 If you are loading a document into the ADF, then adjust the paper guides.
- 3 On the home screen, touch **Copy**.
- 4 Touch **Copy from**, and then identify the size of the original document.
- 5 Touch **Copy to**, and then touch **Manual Feeder** and place letterhead face up, top edge first in the multipurpose feeder.
- 6 Touch the desired size of the letterhead, and then touch **Continue**.
- 7 Touch the arrows until **Letterhead** appears.
- 8 Touch **Letterhead**, and then touch **Continue**.
- 9 Touch **Copy It**.

Customizing copy settings

Copying from one size to another

- 1 Load an original document faceup, short edge first into the ADF or facedown on the scanner glass.
Note: Do not load postcards, photos, small items, transparencies, photo paper, or thin media (such as magazine clippings) into the ADF. Place these items on the scanner glass.
- 2 If you are loading a document into the ADF, then adjust the paper guides.
- 3 On the home screen, touch **Copy**.
- 4 Touch **Copy from**, and then identify the size of the original document.
- 5 Touch **Copy to**, and then select the size you want the copy to be.
Note: If you select a paper size that is different from the “Copy from” size, then the printer will scale the size automatically.
- 6 Touch **Copy It**.

Making copies using paper from a selected tray

During the copy process, you can select the tray that contains the paper type of choice. For example, if specialty media is located in the multipurpose feeder, and you want to make copies on that media:

- 1 Load an original document faceup, short edge first into the ADF or facedown on the scanner glass.
Note: Do not load postcards, photos, small items, transparencies, photo paper, or thin media (such as magazine clippings) into the ADF. Place these items on the scanner glass.
- 2 If you are loading a document into the ADF, then adjust the paper guides.
- 3 On the home screen, touch **Copy**.
- 4 Touch **Copy from**, and then identify the size of the original document.
- 5 Touch **Copy to**, and then touch **Manual Feeder** or the tray that contains the paper type you want.
Note: If you choose Manual Feeder, then you will need to also select the paper size and type.
- 6 Touch **Copy It**.

Copying a document that contains mixed paper sizes

Use the ADF to copy an original document that contains mixed paper sizes. Depending on the paper sizes loaded and the "Copy to" and "Copy from" settings, each copy is either printed on mixed paper sizes (Example 1) or scaled to fit a single paper size (Example 2).

Example 1: Copying to mixed paper sizes

The printer has two paper trays, one tray loaded with letter-size paper and the other with legal-size paper. A document that contains letter- and legal-size pages needs to be copied.

- 1 Load an original document faceup, short edge first into the ADF or facedown on the scanner glass.
Note: Do not load postcards, photos, small items, transparencies, photo paper, or thin media (such as magazine clippings) into the ADF. Place these items on the scanner glass.
- 2 If you are loading a document into the ADF, then adjust the paper guides.
- 3 On the home screen, touch **Copy**.
- 4 Touch **Copy from**, and then touch **Auto Size Sense**.
- 5 Touch **Copy to**, and then touch **Auto Size Match**.
- 6 Touch **Copy It**.
The scanner identifies the mixed paper sizes as they scan. Copies are printed on mixed paper sizes corresponding to the paper sizes of the original document.

Example 2: Copying to a single paper size

The printer has one paper tray, loaded with letter-size paper. A document that contains letter- and legal-size pages needs to be copied.

- 1 Load an original document faceup, short edge first into the ADF or facedown on the scanner glass.

Note: Do not load postcards, photos, small items, transparencies, photo paper, or thin media (such as magazine clippings) into the ADF. Place these items on the scanner glass.

- 2 If you are loading a document into the ADF, then adjust the paper guides.

- 3 On the home screen, touch **Copy**.

- 4 Touch **Copy from**, and then touch **Mixed Letter/Legal**.

- 5 Touch **Copy to**, and then touch **Letter**.

- 6 Touch **Copy It**.

The scanner identifies the mixed paper sizes as they scan and then scales the legal-size pages to print on letter-size paper.

Copying on both sides of the paper (duplexing)

- 1 Load an original document faceup, short edge first into the ADF or facedown on the scanner glass.

Note: Do not load postcards, photos, small items, transparencies, photo paper, or thin media (such as magazine clippings) into the ADF. Place these items on the scanner glass.

- 2 If you are loading a document into the ADF, adjust the paper guides.

- 3 On the home screen, touch **Copy**.

- 4 From the Sides (Duplex) area, touch the button that looks the way you want your copies duplexed.

The first number represents sides of the original documents; the second number represents sides of the copy. For example, select 1-sided to 2-sided if you have 1-sided original documents and you want 2-sided copies.

- 5 Touch **Copy It**.

Reducing or enlarging copies

Copies can be reduced to 25% of the original document size or enlarged to 400% of the original document size. The factory default setting for Scale is Auto. If you leave Scale set to Auto, the content of your original document will be scaled to fit the size of the paper onto which you are copying.

To reduce or enlarge a copy:

- 1 Load an original document faceup, short edge first into the ADF or facedown on the scanner glass.

Note: Do not load postcards, photos, small items, transparencies, photo paper, or thin media (such as magazine clippings) into the ADF. Place these items on the scanner glass.

- 2 If you are loading a document into the ADF, then adjust the paper guides.

- 3 On the home screen, touch **Copy**.

- 4 From the Scale area, touch the arrows to enlarge or reduce your copies.
Touching “Copy to” or “Copy from” after setting Scale manually changes the scale value back to Auto.
- 5 Touch **Copy It**.

Adjusting copy quality

- 1 Load an original document faceup, short edge first into the ADF or facedown on the scanner glass.
Note: Do not load postcards, photos, small items, transparencies, photo paper, or thin media (such as magazine clippings) into the ADF. Place these items on the scanner glass.
- 2 If you are loading a document into the ADF, then adjust the paper guides.
- 3 On the home screen, touch **Copy**.
- 4 Touch **Options**.
- 5 Touch **Content**.
- 6 Touch the button that best represents what you are copying:
 - **Text**—Used for original documents that are mostly text or line art
 - **Text/Photo**—Used when the original documents are a mixture of text and graphics or pictures
 - **Photograph**—Used when the original document is a high-quality photograph or inkjet print
 - **Printed Image**—Used when copying halftone photographs, graphics such as documents printed on a laser printer, or pages from a magazine or newspaper that are composed primarily of images
- 7 Touch **Done**.
- 8 Touch **Copy It**.

Collating copies

If you print multiple copies of a document, then you can choose to print each copy as a set (collated) or to print the copies as groups of pages (not collated).

Collated



Not collated



By default, Collate is set to On. If you do not want to collate your copies, then change the setting to Off.

To turn collation off:

- 1 Load an original document faceup, short edge first into the ADF or facedown on the scanner glass.
Note: Do not load postcards, photos, small items, transparencies, photo paper, or thin media (such as magazine clippings) into the ADF. Place these items on the scanner glass.
- 2 If you are loading a document into the ADF, then adjust the paper guides.
- 3 On the home screen, touch **Copy**.
- 4 Use the keypad to enter the number of copies.

5 Touch **Off** if you do not want your copies collated.

6 Touch **Copy It**.

Placing separator sheets between copies

1 Load an original document faceup, short edge first into the ADF or facedown on the scanner glass.

Note: Do not load postcards, photos, small items, transparencies, photo paper, or thin media (such as magazine clippings) into the ADF. Place these items on the scanner glass.

2 If you are loading a document into the ADF, then adjust the paper guides.

3 On the home screen, touch **Copy**.

4 Touch **Options**.

5 Touch **Separator Sheets**.

Note: Collate must be On for the separator sheets to be placed between copies. If Collate is Off, the separator sheets are added to the end of the print job.

6 Select one of the following:

- **Between Copies**
- **Between Jobs**
- **Between Pages**

7 Touch **Done**.

8 Touch **Copy It**.

Copying multiple pages onto a single sheet

In order to save paper, you can copy either two or four consecutive pages of a multiple-page document onto a single sheet of paper.

Notes:

- The Paper Size must be set to Letter, Legal, A4, or B5 JIS.
- The Copy Size must be set to 100%.

1 Load an original document faceup, short edge first into the ADF or facedown on the scanner glass.

Note: Do not load postcards, photos, small items, transparencies, photo paper, or thin media (such as magazine clippings) into the ADF. Place these items on the scanner glass.

2 If you are loading a document into the ADF, then adjust the paper guides.

3 On the home screen, touch **Copy**.

4 Select a duplex setting.

5 Touch **Options**.

6 Touch **Paper Saver**.

7 Select the desired output.

8 Touch **Print Page Borders** if you want a box drawn around each page of the copies.

- 9 Touch **Done**.
- 10 Touch **Copy It**.

Creating a custom job (job build)

The custom job or job build is used to combine one or more sets of original documents into a single copy job. Each set may be scanned using different job parameters. When a copy job is submitted and Custom Job is enabled, the scanner scans the first set of original documents using the supplied parameters, and then it scans the next set with the same or different parameters.

The definition of a set depends on the scan source:

- If you scan a document on the scanner glass, a set consists of one page.
- If you scan multiple pages using the ADF, a set consists of all scanned pages until the ADF becomes empty.
- If you scan one page using the ADF, a set consists of one page.

For example:

- 1 Load an original document faceup, short edge first into the ADF or facedown on the scanner glass.
Note: Do not load postcards, photos, small items, transparencies, photo paper, or thin media (such as magazine clippings) into the ADF. Place these items on the scanner glass.
- 2 If you are loading a document into the ADF, then adjust the paper guides.
- 3 On the home screen, touch **Copy**.
- 4 Touch **Options**.
- 5 Touch **Custom Job**.
- 6 Touch **On**.
- 7 Touch **Done**.
- 8 Touch **Copy It**.
When the end of a set is reached, the scan screen appears.
- 9 Load the next document faceup, short edge first into the ADF or facedown on the scanner glass, and then touch **Scan the Automatic Document Feeder** or **Scan the flatbed**.
Note: If required, change the job settings.
- 10 If you have another document to scan, load the next document faceup, short edge first into the ADF or facedown on the scanner glass, and then touch **Scan the Automatic Document Feeder** or **Scan the flatbed**. Otherwise, touch **Finish the job**.

Job interrupt

Job interrupt pauses the current print job and lets you print copies.

Note: The Job Interrupt setting must be On for this feature to function.

- 1 Load an original document faceup, short edge first into the ADF or facedown on the scanner glass.
Note: Do not load postcards, photos, small items, transparencies, photo paper, or thin media (such as magazine clippings) into the ADF. Place these items on the scanner glass.
- 2 If you are loading a document into the ADF, then adjust the paper guides.
- 3 From the printer control panel, press .
- 4 If you placed the document on the scanner glass, then touch **Finish the Job** to return to the home screen.

Placing information on copies

Placing the date and time at the top of each page

- 1 Load an original document faceup, short edge first into the ADF or facedown on the scanner glass.
Note: Do not load postcards, photos, small items, transparencies, photo paper, or thin media (such as magazine clippings) into the ADF. Place these items on the scanner glass.
- 2 If you are loading a document into the ADF, then adjust the paper guides.
- 3 On the home screen, touch **Copy**.
- 4 Touch **Options**.
- 5 Touch **Header/Footer**.
- 6 Pick an area of the page to place the date and time.
- 7 Touch **Date/Time**, and then touch **Continue**.
- 8 Touch **Done**.
- 9 Touch **Copy It**.

Placing an overlay message on each page

An overlay message can be placed on each page. The message choices are Urgent, Confidential, Copy, or Draft. To place a message on the copies:

- 1 Load an original document faceup, short edge first into the ADF or facedown on the scanner glass.
Note: Do not load postcards, photos, small items, transparencies, photo paper, or thin media (such as magazine clippings) into the ADF. Place these items on the scanner glass.
- 2 If you are loading a document into the ADF, then adjust the paper guides.
- 3 On the home screen, touch **Copy**.
- 4 Touch **Options**.
- 5 Touch **Overlay**.

- 6 Touch the button containing the overlay you want to use.
- 7 Touch **Done**.
- 8 Touch **Copy It**.

Canceling a copy job

Canceling a copy job while the document is in the ADF

When the ADF begins processing a document, the scanning screen appears. To cancel the copy job, touch **Cancel Job** on the touch screen.

A “Canceling scan job” screen appears. The ADF clears all pages in the ADF and cancels the job.

Canceling a copy job while copying pages using the scanner glass

Touch **Cancel Job** on the touch screen.

A “Canceling scan job” screen appears. Once the job is canceled, the copy screen appears.

Canceling a copy job while the pages are being printed

- 1 Touch **Cancel Job** on the touch screen, or press  on the keypad.
- 2 Touch the job you want to cancel.
- 3 Touch **Delete Selected Jobs**.

The remaining print job is canceled. The home screen appears.

Understanding the copy screens and options

Copy from

This option opens a screen where you can enter the size of the documents you are going to copy.

- Touch a paper size button to select it as the “Copy from” setting. The copy screen appears with your new setting displayed.
- When “Copy from” is set to Mixed Letter/Legal, you can copy an original document that contains mixed paper sizes.
- When “Copy from” is set to Auto Size Sense, the scanner automatically determines the size of the original document.

Copy to

This option opens a screen where you can enter the size and type of paper on which your copies will be printed.

- Touch a paper size button to select it as the “Copy to” setting. The copy screen appears with your new setting displayed.
- If the size settings for “Copy from” and “Copy to” are different, the printer automatically adjusts the Scale setting to accommodate the difference.

- If the type or size of paper that you want to copy onto is not loaded in one of the trays, touch **Manual Feeder**, and manually send the paper through the multipurpose feeder.
- When “Copy to” is set to Auto Size Match, each copy matches the size of the original document. If a matching paper size is not in one of the trays, the printer scales each copy to fit loaded paper.

Scale

This option creates an image from your copy that is proportionally scaled anywhere between 25% and 400%. Scale can also be set for you automatically.

- When you want to copy from one size of paper to another, such as from legal-size to letter-size paper, setting the “Copy from” and “Copy to” paper sizes automatically changes the scale to keep all the original document information on your copy.
- Touch the left arrow to decrease the value by 1%; touch the right arrow to increase the value by 1%.
- Hold your finger on an arrow to make a continuous increment change.
- Hold your finger on an arrow for two seconds to cause the pace of the change to accelerate.

Darkness

This option adjusts how light or dark your copies will turn out in relation to the original document.

Content

This option tells the printer the original document type. Choose from Text, Text/Photo, Photograph, or Printed Image.

- **Text**—Emphasize sharp, black, high-resolution text against a clean, white background
- **Text/Photo**—Used when the original documents are a mixture of text and graphics or pictures
- **Photograph**—Tells the scanner to pay extra attention to graphics and pictures. This setting increases the time it takes to scan, but emphasizes a reproduction of the full dynamic range of tones in the original document.
- **Printed Image**—Used when copying halftone photographs, graphics such as documents printed on a laser printer, or pages from a magazine or newspaper that are composed primarily of images

Sides (Duplex)

Use this option to select duplex settings. You can print copies on one or two sides, make two-sided copies (duplex) of two-sided original documents, make two-sided copies from one-sided original documents, or make one-sided copies (simplex) from two-sided original documents.

Collate

This option keeps the pages of a print job stacked in sequence when printing multiple copies of the document. The factory default setting for Collate is on; the output pages of your copies will be ordered (1,2,3) (1,2,3) (1,2,3). If you want all the copies of each page to remain together, turn Collate off, and your copies will be ordered (1,1,1) (2,2,2) (3,3,3).

Options

Touching the Options button opens a screen where you can change Paper Saver, Advanced Imaging, Custom Job, Separator Sheets, Margin Shift, Edge Erase, Header/Footer, Overlay, Content, Advanced Duplex, and Save as Shortcut settings.

Paper Saver

This option lets you print two or more sheets of an original document together on the same page. Paper Saver is also called N-up printing. The N stands for Number. For example, 2-up would print two pages of your document on a single page, and 4-up would print four pages of your document on a single page. Touching Print Page Borders adds or removes the outline border surrounding the original document pages on the output page.

Advanced Imaging

This option lets you adjust Background Removal, Contrast, Shadow Detail, Scan Edge to Edge, Color Balance, and mirror image before you copy the document.

Custom Job

This option combines multiple scanning jobs into a single job.

Separator Sheets

This option places a blank piece of paper between copies, pages, and print jobs. The separator sheets can be drawn from a tray that contains a type or color of paper that is different from the paper your copies are printed on.

Margin Shift

This option increases the size of the margin a specified distance. This can be useful in providing space to bind or hole-punch copies. Use the increase or decrease arrows to set how much of a margin you want. If the additional margin is too large, then the copy will be cropped.

Edge Erase

This option eliminates smudges or information around the edges of your document. You can choose to eliminate an equal area around all four sides of the paper, or pick a particular edge. Edge Erase erases whatever is within the selected area, leaving nothing printed on that portion of the paper.

Header/Footer

This option turns on the Date/Time, Page number, Bates number, or Custom text and prints them in the specified header or footer location.

Overlay

This option creates a watermark (or message) that overlays the content of your copy. You can choose between Urgent, Confidential, Copy, and Draft, or you can enter a custom message in the "Enter custom text" field. The word you pick will appear, faintly, in large print across each page.

Note: A custom overlay can also be created by your system support person. When a custom overlay is created, a button with an icon of that overlay will be available.

Content

This option enhances copy quality. Choose from Text, Text/Photo, Photograph, or Printed Image.

- **Text**—Use this setting when copying original documents that are mostly text or line art.
- **Text/Photo**—Use this setting when copying original documents that are a mixture of text and graphics or pictures.

- **Photograph**—Use this setting when copying an original document that is a high-quality photograph or inkjet print.
- **Printed Image**—Use this setting when copying halftone photographs, documents printed on a laser printer, or pages from a magazine or newspaper.

Advanced Duplex

This option controls whether the documents are one-sided or two-sided, what orientation your original documents have, and how your documents are bound.

Note: Some Advanced Duplex options may not be available on all printer models.

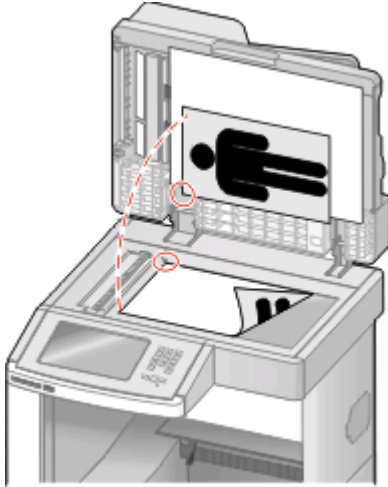
Save as Shortcut

This option allows the current settings to be saved as a shortcut.

Improving copy quality

Question	Tip
When should I use Text mode?	• Use text mode when text preservation is the main goal of the copy, and preserving images copied from the original document is not a concern. • Text mode is recommended for receipts, carbon copy forms, and documents that contain only text or fine line art.
When should I use Text/Photo mode?	• Use Text/Photo mode when copying an original document that contains a mixture of text and graphics. • Text/Photo mode is recommended for magazine articles, business graphics, and brochures.
When should I use Printed Image mode?	Use Printed Image mode when copying halftone photographs, graphics such as documents printed on a laser printer, or pages from a magazine or newspaper
When should I use Photograph mode?	Use Photograph mode when the original document is a high-quality photograph or inkjet print.

E-mailing

ADF	Scanner glass
 Use the ADF for multiple-page documents.	 Use the scanner glass for single pages, small items (such as postcards or photos), transparencies, photo paper, or thin media (such as magazine clippings).

You can use the printer to e-mail scanned documents to one or more recipients. There are three ways to send an e-mail from the printer. You can type the e-mail address, use a shortcut number, or use the address book.

Getting ready to e-mail

Setting up the e-mail function

For e-mail to operate, it must be turned on in the printer configuration and have a valid IP address or gateway address. To set up the e-mail function:

- 1 Type the printer IP address into the address field of your Web browser.
Note: If you do not know the IP address of the printer, then print a network setup page and locate the IP address in the TCP/IP section.
- 2 Click **Settings**.
- 3 Under Default Settings, click **E-mail/FTP Settings**.
- 4 Click **E-mail Settings**.
- 5 Click **Setup E-mail Server**.
- 6 Fill in the fields with the appropriate information.
- 7 Click **Add**.

Configuring the e-mail settings

- 1 Type the printer IP address into the address field of your Web browser.

Note: If you do not know the IP address of the printer, then print a network setup page and locate the IP address in the TCP/IP section.

- 2 Click **Settings**.
- 3 Click **E-mail/FTP Settings**.
- 4 Click **E-mail Settings**.
- 5 Fill in the fields with the appropriate information.
- 6 Click **Submit**.

Creating an e-mail shortcut

Creating an e-mail shortcut using the Embedded Web Server

- 1 Type the printer IP address into the address field of your Web browser.

Note: If you do not know the IP address of the printer, then print a network setup page and locate the IP address in the TCP/IP section.

- 2 Click **Settings**.
- 3 Under Other Settings, click **Manage Shortcuts**.
- 4 Click **E-mail Shortcut Setup**.
- 5 Type a unique name for the recipient, and then enter the e-mail address.
Note: If you are entering multiple addresses, then separate each address with a comma (,).
- 6 Select the scan settings (Format, Content, Color, and Resolution).
- 7 Enter a shortcut number, and then click **Add**.
If you enter a number that is already in use, then you are prompted to select another number.

Creating an e-mail shortcut using the touch screen

- 1 On the home screen, touch **E-mail**.
- 2 Type the recipient's e-mail address.
To create a group of recipients, touch **Next address**, and then type the next recipient's e-mail address.
- 3 Touch **Save as Shortcut**.
- 4 Type a unique name for the shortcut, and then touch **Enter**.
- 5 Verify that the shortcut name and number are correct, and then touch **OK**.
If the name or number is incorrect, then touch **Cancel**, and then reenter the information.

E-mailing a document

Sending an e-mail using the touch screen

- 1 Load an original document faceup, short edge first into the ADF or facedown on the scanner glass.
Note: Do not load postcards, photos, small items, transparencies, photo paper, or thin media (such as magazine clippings) into the ADF. Place these items on the scanner glass.
- 2 If you are loading a document into the ADF, then adjust the paper guides.
- 3 On the home screen, touch **E-mail**.
- 4 Enter the e-mail address or shortcut number.
To enter additional recipients, touch **Next Address**, and then enter the address or shortcut number you want to add.
- 5 Touch **E-mail It**.

Sending an e-mail using a shortcut number

- 1 Load an original document faceup, short edge first into the ADF or facedown on the scanner glass.
Note: Do not load postcards, photos, small items, transparencies, photo paper, or thin media (such as magazine clippings) into the ADF. Place these items on the scanner glass.
- 2 If you are loading a document into the ADF, then adjust the paper guides.
- 3 Press , and then enter the shortcut number using the keypad.
To enter additional recipients, press **Next address**, and then enter the address or shortcut number you want to add.
- 4 Touch **E-mail It**.

Sending an e-mail using the address book

- 1 Load an original document faceup, short edge first into the ADF or facedown on the scanner glass.
Note: Do not load postcards, photos, small items, transparencies, photo paper, or thin media (such as magazine clippings) into the ADF. Place these items on the scanner glass.
- 2 If you are loading a document into the ADF, adjust the paper guides.
- 3 On the home screen, touch **E-mail**.
- 4 Touch **Search Address Book**.
- 5 Enter the name or part of the name you are searching for, and then touch **Search**.
- 6 Touch the name that you want to add to the To: box.
To enter additional recipients, press **Next address**, and then enter the address or shortcut number you want to add; or search the address book.
- 7 Touch **E-mail It**.

Customizing e-mail settings

Adding e-mail subject and message information

- 1 Load an original document faceup, short edge first into the ADF or facedown on the scanner glass.
Note: Do not load postcards, photos, small items, transparencies, photo paper, or thin media (such as magazine clippings) into the ADF. Place these items on the scanner glass.
- 2 If you are loading a document into the ADF, adjust the paper guides.
- 3 On the home screen, touch **E-mail**.
- 4 Type an e-mail address.
- 5 Touch **Options**.
- 6 Touch **Subject**.
- 7 Type the e-mail subject.
- 8 Touch **Done**.
- 9 Touch **Message**.
- 10 Type an e-mail message.
- 11 Touch **Done**.
- 12 Touch **E-mail It**.

Changing the output file type

- 1 Load an original document faceup, short edge first into the ADF or facedown on the scanner glass.
Note: Do not load postcards, photos, small items, transparencies, photo paper, or thin media (such as magazine clippings) into the ADF. Place these items on the scanner glass.
- 2 If you are loading a document into the ADF, then adjust the paper guides.
- 3 On the home screen, touch **E-mail**.
- 4 Type an e-mail address.
- 5 Touch **Options**.
- 6 Touch the button that represents the file type you want to send.
 - **PDF**—Creates a single file with multiple pages, viewable with Adobe Reader. Adobe Reader is provided free by Adobe at www.adobe.com.
 - **Secure PDF**—Creates an encrypted PDF file that protects the file contents from unauthorized access
 - **TIFF**—Creates multiple files or a single file. If Multi-page TIFF is turned off in the Settings menu of the Embedded Web Server, then TIFF saves one page in each file. The file size is usually larger than an equivalent JPEG.

- **JPEG**—Creates and attaches a separate file for each page of your original document, viewable by most Web browsers and graphics programs
- **XPS**—Creates a single XML Paper Specification (XPS) file with multiple pages, viewable using an Internet Explorer-hosted viewer and the .NET Framework, or by downloading a third party standalone viewer

7 Touch **E-mail It**.

Note: If you selected Encrypted PDF, then enter your password twice.

Canceling an e-mail

- When using the ADF, touch **Cancel Job** while **Scanning...** appears.
- When using the scanner glass, touch **Cancel Job** while **Scanning...** appears or while **Scan the Next Page / Finish the Job** appears.

Understanding e-mail options

Original Size

This option opens a screen where you can choose the size of the documents you are going to e-mail.

- Touch a paper size button to select that size as the Original Size setting. The e-mail screen appears with your new setting displayed.
- When “Original Size” is set to Mixed Letter/Legal, you can scan an original document that contains mixed paper sizes.
- When “Original Size” is set to Auto Size Sense, the scanner automatically determines the size of the original document.

Sides (Duplex)

This option informs the printer if the original document is simplex (printed on one side) or duplex (printed on both sides). This lets the scanner know what needs to be scanned for inclusion in the e-mail.

Orientation

This option tells the printer whether the original document is in portrait or landscape orientation and then changes the Sides and Binding settings to match the original document orientation.

Binding

Tells the printer whether the original document is bound on the long-edge or short-edge side.

E-mail Subject

This option lets you enter a subject line for your e-mail. You can enter up to 255 characters.

E-mail File Name

This option lets you customize the attachment file name.

E-mail Message

This option lets you enter a message that will be sent with your scanned attachment.

Resolution

Adjusts the output quality of your e-mail. Increasing the image resolution increases the e-mail file size and the time needed to scan your original document. Image resolution can be decreased to reduce the e-mail file size.

Send As

This option sets the output (PDF, TIFF, JPEG or XPS) for the scanned image.

- **PDF**—Creates a single file with multiple pages, viewable with Adobe Reader. Adobe Reader is provided free by Adobe at www.adobe.com.
- **Secure PDF**—Creates an encrypted PDF file that protects the file contents from unauthorized access
- **TIFF**—Creates multiple files or a single file. If Multi-page TIFF is turned off in the Settings menu of the Embedded Web Server, then TIFF saves one page in each file. The file size is usually larger than an equivalent JPEG.
- **JPEG**—Creates and attaches a separate file for each page of your original document, viewable by most Web browsers and graphics programs
- **XPS**—Creates a single XPS file with multiple pages, viewable using an Internet Explorer-hosted viewer and the .NET Framework, or by downloading a third party standalone viewer

Content

This option tells the printer the original document type. Choose from Text, Text/Photo, or Photo. Color can be turned on or off with any of the Content choices. Content affects the quality and size of your e-mail.

- **Text**—Emphasizes sharp, black, high-resolution text against a clean, white background
- **Text/Photo**—Used when the original documents are a mixture of text and graphics or pictures
- **Photograph**—Tells the scanner to pay extra attention to graphics and pictures. This setting increases the time it takes to scan, but emphasizes a reproduction of the full dynamic range of tones in the original document. This increases the amount of information saved.
- **Color**—Sets the scan type and output for the e-mail. Color documents can be scanned and sent to an e-mail address.

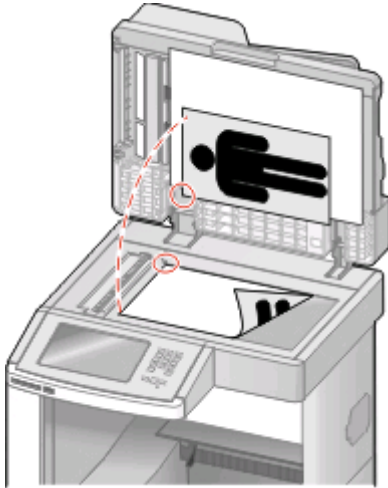
Advanced Options

Touching this button opens a screen where you change Advanced Imaging, Custom Job, Transmission Log, Scan Preview, Edge Erase, and Darkness settings.

- **Advanced Imaging**—Adjusts Background Removal, Contrast, Scan Edge to Edge, Shadow Detail, and Mirror Image before you copy the document
- **Custom Job (Job Build)**—Combines multiple scanning jobs into a single job
- **Transmission Log**—Prints the transmission log or transmission error log
- **Scan Preview**—Displays the first page of the image before it is included in the e-mail. When the first page is scanned, the scanning is paused and a preview image appears.
- **Edge Erase**—Eliminates smudges or information around the edges of a document. You can choose to eliminate an equal area around all four sides of the paper, or pick a particular edge. Edge Erase will erase whatever is within the area selected, leaving nothing on that portion of the scan.
- **Darkness**—Adjusts how light or dark your scanned e-mails will turn out

Faxing

Note: Fax capabilities may not be available on all printer models.

ADF	Scanner glass
 Use the ADF for multiple-page documents.	 Use the scanner glass for single pages, small items (such as postcards or photos), transparencies, photo paper, or thin media (such as magazine clippings).

Sending a fax

Sending a fax using the printer control panel

- 1 Load an original document faceup, short edge first into the ADF or facedown on the scanner glass.
Note: Do not load postcards, photos, small items, transparencies, photo paper, or thin media (such as magazine clippings) into the ADF. Place these items on the scanner glass.
- 2 If you are loading a document into the ADF, then adjust the paper guides.
- 3 On the home screen, touch **Fax**.
- 4 Enter the fax number or a shortcut using the touch screen or keypad.
To add recipients, touch **Next Number**, and then enter the recipient's telephone number or shortcut number, or search the address book.
Note: To place a dial pause within a fax number, press **[]**. The dial pause appears as a comma in the "Fax to" box. Use this feature if you need to dial an outside line first.
- 5 Touch **Fax It**.

Sending a fax using the computer

Faxing from a computer lets you send electronic documents without leaving your desk. This gives you the flexibility of faxing documents directly from software programs.

Note: In order to perform this function from your computer, you must use the PostScript printer driver for your printer.

- 1 From your software program, click **File → Print**.
- 2 From the Print window, select your printer, and then click **Properties**.
- 3 Choose the **Other Options** tab, and then click **Fax**.
- 4 Click **OK**, and then click **OK** again.
- 5 On the Fax screen, type the name and number of the fax recipient.
- 6 Click **Send**.

Creating shortcuts

Creating a fax destination shortcut using the Embedded Web Server

Instead of entering the entire phone number of a fax recipient on the printer control panel each time you want to send a fax, you can create a permanent fax destination and assign a shortcut number. A shortcut can be created to a single fax number or a group of fax numbers.

- 1 Type the printer IP address into the address field of your Web browser.
Note: If you do not know the IP address of the printer, then print a network setup page and locate the IP address in the TCP/IP section.
- 2 Click **Settings**.
- 3 Click **Manage Shortcuts**.
Note: A password may be required. If you do not have an ID and password, get one from your system support person.
- 4 Click **Fax Shortcut Setup**.
- 5 Type a unique name for the shortcut, and then enter the fax number.
To create a multiple-number shortcut, enter the fax numbers for the group.
Note: Separate each fax number in the group with a semicolon (;).
- 6 Assign a shortcut number.
If you enter a number that is already in use, then you are prompted to select another number.
- 7 Click **Add**.

Creating a fax destination shortcut using the touch screen

- 1 Load an original document faceup, short edge first into the ADF or facedown on the scanner glass.
Note: Do not load postcards, photos, small items, transparencies, photo paper, or thin media (such as magazine clippings) into the ADF. Place these items on the scanner glass.
- 2 If you are loading a document into the ADF, then adjust the paper guides.
- 3 On the home screen, touch **Fax**.
- 4 Enter the fax number.
To create a group of fax numbers, touch **Next number**, and then enter the next fax number.
- 5 Touch **Save as Shortcut**.
- 6 Enter a name for the shortcut.
- 7 Verify that the shortcut name and number are correct, and then touch **OK**. If the name or number is incorrect, then touch **Cancel**, and then reenter the information.
If you enter a number that is already in use, then you are prompted to select another number.
- 8 Touch **Fax It** to send the fax, or touch  to return to the home screen.

Using shortcuts and the address book

Using fax shortcuts

Fax shortcuts are just like the speed dial numbers on a telephone or fax machine. You can assign shortcut numbers when creating permanent fax destinations. Permanent fax destinations or speed dial numbers are created in the Manage Shortcuts link located under Settings on the Embedded Web Server. A shortcut number (1–99999) can contain a single recipient or multiple recipients. By creating a group fax shortcut with a shortcut number, you can quickly and easily fax broadcast information to an entire group.

- 1 Load an original document faceup, short edge first into the ADF or facedown on the scanner glass.
Note: Do not place postcards, photos, small items, transparencies, photo paper, or thin media (such as magazine clippings) into the ADF. Place these items on the scanner glass.
- 2 If you are loading a document into the ADF, then adjust the paper guides.
- 3 Press , and then enter the shortcut number using the keypad.

Using the address book

Note: If the address book feature is not enabled, then contact your system support person.

- 1 Load an original document faceup, short edge first into the ADF or facedown on the scanner glass.
Note: Do not load postcards, photos, small items, transparencies, photo paper, or thin media (such as magazine clippings) into the ADF. Place these items on the scanner glass.
- 2 If you are loading a document into the ADF, then adjust the paper guides.
- 3 On the home screen, touch **Fax**.
- 4 Touch **Search Address Book**.

- 5 Using the virtual keyboard, type the name or part of the name of the person whose fax number you want to find. (Do not attempt to search for multiple names at the same time.)
- 6 Touch **Search**.
- 7 Touch the name to add it to the "Fax to" list.
- 8 Repeat steps 4 through 7 to enter additional addresses.
- 9 Touch **Fax It**.

Customizing fax settings

Changing the fax resolution

Adjusting the resolution setting changes the quality of the fax. Settings range from Standard (fastest speed) to Ultra Fine (slowest speed, best quality).

- 1 Load an original document faceup, short edge first into the ADF or facedown on the scanner glass.
Note: Do not load postcards, photos, small items, transparencies, photo paper, or thin media (such as magazine clippings) into the ADF. Place these items on the scanner glass.
- 2 If you are loading a document into the ADF, then adjust the paper guides.
- 3 On the home screen, touch **Fax**.
- 4 Use the keypad to enter the fax number.
- 5 Touch **Options**.
- 6 From the Resolution area, touch the arrows to change to the resolution you want.
- 7 Touch **Fax It**.

Making a fax lighter or darker

- 1 Load an original document faceup, short edge first into the ADF or facedown on the scanner glass.
Note: Do not load postcards, photos, small items, transparencies, photo paper, or thin media (such as magazine clippings) into the ADF. Place these items on the scanner glass.
- 2 If you are loading a document into the ADF, then adjust the paper guides.
- 3 On the home screen, touch **Fax**.
- 4 Use the keypad to enter the fax number.
- 5 Touch **Options**.
- 6 From the Darkness area, touch the arrows to adjust the darkness of the fax.
- 7 Touch **Fax It**.

Sending a fax at a scheduled time

- 1 Load an original document faceup, short edge first into the ADF or facedown on the scanner glass.
Note: Do not load postcards, photos, small items, transparencies, photo paper, or thin media (such as magazine clippings) into the ADF. Place these items on the scanner glass.
- 2 If you are loading a document into the ADF, then adjust the paper guides.
- 3 On the home screen, touch **Fax**.
- 4 Enter the fax number using the numbers on the touch screen or keypad.
- 5 Touch **Options**.
- 6 Touch **Advanced Options**.
- 7 Touch **Delayed Send**.
Note: If Fax Mode is set to Fax Server, the Delayed Send button will not appear. Faxes waiting for transmission are listed in the Fax Queue.
- 8 Touch the arrows to adjust the time the fax will be transmitted.
The time is increased or decreased in increments of 30 minutes. If the current time is shown, the left arrow is unavailable.
- 9 Touch **Done**.
- 10 Touch **Fax it**.
Note: The document is scanned and then faxed at the scheduled time.

Viewing a fax log

- 1 Type the printer IP address into the address field of your Web browser.
Note: If you do not know the IP address of the printer, then print a network setup page and locate the IP address in the TCP/IP section.
- 2 Click **Settings**.
- 3 Click **Reports**.
- 4 Click **Fax Job Log** or **Fax Call Log**.

Blocking junk faxes

- 1 Type the printer IP address into the address field of your Web browser.
Note: If you do not know the IP address of the printer, then print a network setup page and locate the IP address in the TCP/IP section.
- 2 Click **Settings**.
- 3 Click **Fax Settings**.
- 4 Click **Analog Fax Setup**.

- 5 Click the **Block No Name Fax** option.

This option blocks all incoming faxes that have a private caller ID or no fax station name.

- 6 In the Banned Fax List field, enter the phone numbers or fax station names of specific fax callers you want to block.

Canceling an outgoing fax

Canceling a fax while the original documents are still scanning

- When using the ADF, touch **Cancel Job** while **Scanning...** appears.
- When using the scanner glass, touch **Cancel Job** while **Scanning...** appears or while **Scan the Next Page/Finish the Job** appears.

Canceling a fax after the original documents have been scanned to memory

- 1 On the home screen, touch **Cancel Jobs**.

The Cancel Jobs screen appears.

- 2 Touch the job or jobs you want to cancel.

Only three jobs appear on the screen; touch the down arrow until the job you want appears, and then touch the job you want to cancel.

- 3 Touch **Delete Selected Jobs**.

The Deleting Selected Jobs screen appears, the selected jobs are deleted, and then the home screen appears.

Understanding fax options

Original Size

This option opens a screen where you can choose the size of the documents you are going to fax.

- Touch a paper size button to select that size as the Original Size setting. The fax screen appears with your new setting displayed.
- When Original Size is set to Mixed Letter/Legal, you can scan an original document that contains mixed paper sizes.
- When "Original Size" is set to Auto Size Sense, the scanner automatically determines the size of the original document.

Content

This option tells the printer the original document type. Choose from Text, Text/Photo, or Photograph. Color can be turned on or off with any of the Content choices. Content affects the quality and size of your scan.

- **Text**—Emphasizes sharp, black, high-resolution text against a clean, white background
- **Text/Photo**—Used when the original documents are a mixture of text and graphics or pictures

- **Photograph**—Tells the scanner to pay extra attention to graphics and pictures. This setting increases the time it takes to scan, but emphasizes a reproduction of the full dynamic range of tones in the original document. This increases the amount of information saved.
- **Color**—Sets the scan type and output for the fax. Color documents can be scanned and sent to a fax destination.

Sides (Duplex)

This option informs the printer if the original document is simplex (printed on one side) or duplex (printed on both sides). This lets the scanner know what needs to be scanned for inclusion in the fax.

Resolution

This options increases how closely the scanner examines the document you want to fax. If you are faxing a photo, a drawing with fine lines, or a document with very small text, increase the Resolution setting. This will increase the amount of time required for the scan and will increase the quality of the fax output.

- **Standard**—Suitable for most documents
- **Fine**—Recommended for documents with small print
- **Super fine**—Recommended for original documents with fine detail
- **Ultra fine**—Recommended for documents with pictures or photos

Darkness

This option adjusts how light or dark your faxes will turn out in relation to the original document.

Advanced Options

Touching this button opens a screen where you can change Delayed Send, Advanced Imaging, Custom Job, Transmission Log, Scan Preview, Edge Erase, and Advanced Duplex settings.

- **Delayed Send**—Lets you send a fax at a later time or date. After setting up your fax, touch **Delayed Send**, enter the time and date you would like to send your fax, and then touch **Done**. This setting can be especially useful in sending information to fax lines that are not readily available during certain hours, or when transmission times are cheaper.

Note: If the printer is turned off when the delayed fax is scheduled to be sent, the fax is sent the next time the printer is turned on.

- **Advanced Imaging**—Adjusts Background Removal, Contrast, Scan Edge to Edge, Shadow Detail, and Mirror Image before you fax the document
- **Custom Job (Job Build)**—Combines multiple scanning jobs into a single job
- **Transmission Log**—Prints the transmission log or transmission error log
- **Scan Preview**—Displays the image before it is included in the fax. When the first page is scanned, the scanning is paused, and a preview image appears.
- **Edge Erase**—Eliminates smudges or information around the edges of a document. You can choose to eliminate an equal area around all four sides of the paper, or pick a particular edge. Edge Erase will erase whatever is within the area selected, leaving nothing on that portion of the scan.
- **Advanced Duplex**—Controls how many sides and what orientation an original document has, and whether original documents are bound along the long edge or the short edge

Note: Some Advanced Duplex options may not be available on all printer models.

Improving fax quality

Question	Tip
When should I use Text mode?	• Use Text mode when text preservation is the main goal of the fax, and preserving images copied from the original document is not a concern. • Text mode is recommended for faxing receipts, carbon copy forms, and documents that contain only text or fine line art.
When should I use Text/Photo mode?	• Use Text/Photo mode when faxing an original document that contains a mixture of text and graphics. • Text/Photo mode is recommended for magazine articles, business graphics, and brochures.
When should I use Photo mode?	Use Photo mode when faxing photos printed on a laser printer or taken from a magazine or newspaper.

Holding and forwarding faxes

Holding faxes

This option lets you hold received faxes from printing until they are released. Held faxes can be released manually or at a scheduled day or time.

1 Type the printer IP address into the address field of your Web browser.

Note: If you do not know the IP address of the printer, then print a network setup page and locate the IP address in the TCP/IP section.

2 Click **Settings**.

3 Click **Fax Settings**.

4 Click **Analog Fax Setup**.

5 Click **Holding Faxes**.

6 Enter a password in the Print Faxes Password box.

7 From the Held Fax Mode menu, select one of the following:

- **Off**
- **Always On**
- **Manual**
- **Scheduled**

8 If you selected Scheduled, then continue with the following steps. Otherwise, go to step 9.

a Click **Fax Holding Schedule**.

b From the Action menu, select **Hold faxes**.

c From the Time menu, select the time you want the held faxes released.

d From the Day(s) menu, select the day you want the held faxes released.

9 Click **Add**.

Forwarding a fax

This option lets you print and forward received faxes to a fax number, e-mail address, FTP site, or LDSS.

- 1 Type the printer IP address into the address field of your Web browser.

Note: If you do not know the IP address of the printer, then print a network setup page and locate the IP address in the TCP/IP section.

- 2 Click **Settings**.

- 3 Click **Fax Settings**.

- 4 Click **Analog Fax Setup**.

- 5 From the Fax Forwarding menu, select one of the following:

- **Print**
- **Print and Forward**
- **Forward**

- 6 From the "Forward to" menu, select one of the following:

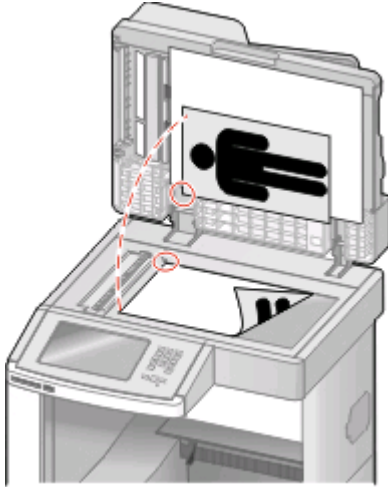
- **Fax**
- **E-mail**
- **FTP**
- **LDSS**
- **eSF**

- 7 Click inside the Forward to Shortcut box, and then enter the shortcut number where you want the fax forwarded.

Note: The shortcut number must be a valid shortcut number for the setting that was selected in the "Forward to" menu.

- 8 Click **Submit**.

Scanning to an FTP address

ADF	Scanner glass
 Use the ADF for multiple-page documents.	 Use the scanner glass for single pages, small items (such as postcards or photos), transparencies, photo paper, or thin media (such as magazine clippings).

The scanner lets you scan documents directly to a *File Transfer Protocol (FTP)* server. Only one FTP address may be sent to the server at a time.

Once an FTP destination has been configured by your system support person, the name of the destination becomes available as a shortcut number, or it is listed as a profile under the Held Jobs icon. An FTP destination could also be another PostScript printer; for example, a color document can be scanned and then sent to a color printer. Sending a document to an FTP server is similar to sending a fax. The difference is that you are sending the information over your network instead of over the phone line.

Scanning to an FTP address

Scanning to an FTP address using the keypad

- 1 Load an original document faceup, short edge first into the ADF or facedown on the scanner glass.
Note: Do not load postcards, photos, small items, transparencies, photo paper, or thin media (such as magazine clippings) into the ADF. Place these items on the scanner glass.
- 2 If you are loading a document into the ADF, adjust the paper guides.
- 3 On the home screen, touch **FTP**.
- 4 Type the FTP address.
- 5 Touch **Send It**.

Scanning to an FTP address using a shortcut number

- 1 Load an original document faceup, short edge first into the ADF or facedown on the scanner glass.
Note: Do not load postcards, photos, small items, transparencies, photo paper, or thin media (such as magazine clippings) into the ADF. Place these items on the scanner glass.
- 2 If you are loading a document into the ADF, then adjust the paper guides.
- 3 Press #, and then enter the FTP shortcut number.
- 4 Touch **Send It**.

Scanning to an FTP address using the address book

- 1 Load an original document faceup, short edge first into the ADF or facedown on the scanner glass.
Note: Do not load postcards, photos, small items, transparencies, photo paper, or thin media (such as magazine clippings) into the ADF. Place these items on the scanner glass.
- 2 If you are loading a document into the ADF, adjust the paper guides.
- 3 On the home screen, touch **FTP**.
- 4 Touch **Search Address Book**.
- 5 Type the name or part of the name you are searching for, and then touch **Search**.
- 6 Touch the name that you want to add to the To: field.
- 7 Touch **Send It**.

Creating shortcuts

Instead of entering the entire FTP site address on the control panel each time you want to send a document to an FTP server, you can create a permanent FTP destination and assign a shortcut number. There are two methods for creating shortcut numbers: using a computer or using the printer touch screen.

Creating an FTP shortcut using the Embedded Web Server

- 1 Type the printer IP address into the address field of your Web browser.
Note: If you do not know the IP address of the printer, then print a network setup page and locate the IP address in the TCP/IP section.
- 2 Click **Settings**.
- 3 Under Other Settings, click **Manage Shortcuts**.
Note: A password may be required. If you do not have an ID and password, get one from your system support person.
- 4 Click **FTP Shortcut Setup**.
- 5 Enter the appropriate information into the boxes.

6 Enter a shortcut number.

If you enter a number that is already in use, then you are prompted to select another number.

7 Click **Add**.

Creating an FTP shortcut using the touch screen

1 On the home screen, touch **FTP**.

2 Type the address of the FTP site.

3 Touch **Save as Shortcut**.

4 Enter a name for the shortcut.

5 Verify that the shortcut name and number are correct, and then touch **OK**. If the name or number is incorrect, then touch **Cancel**, and then reenter the information.

If you enter a number that is already in use, then you are prompted to select another number.

6 Touch **Send It** to start the scan, or touch  to return to the home screen.

Understanding FTP options

Original Size

This option opens a screen where you can choose the size of the documents you are going to copy.

- Touch a paper size button to select that size as the Original Size setting. The FTP screen appears with your new setting displayed.
- When "Original Size" is set to Mixed Letter/Legal, you can scan an original document that contains mixed paper sizes.
- When "Original Size" is set to Auto Size Sense, the scanner automatically determines the size of the original document.

Sides (Duplex)

This option informs the printer if the original document is simplex (printed on one side) or duplex (printed on both sides). This lets the scanner know what needs to be scanned for inclusion in the document.

Orientation

This option tells the printer whether the original document is in portrait or landscape orientation and then changes the Sides and Binding settings to match the original document orientation.

Binding

Tells the printer whether the original document is bound on the long-edge or short-edge side.

Resolution

This option adjusts the output quality of your file. Increasing the image resolution increases the file size and the time needed to scan your original document. Image resolution can be decreased to reduce the file size.

Send As

This option sets the output (PDF, TIFF, JPEG or XPS) for the scanned image.

- **PDF**—Creates a single file with multiple pages, viewable with Adobe Reader. Adobe Reader is provided free by Adobe at www.adobe.com.
- **Secure PDF**—Creates an encrypted PDF file that protects the file contents from unauthorized access
- **TIFF**—Creates multiple files or a single file. If Multi-page TIFF is turned off in the Settings menu of the Embedded Web Server, then TIFF saves one page in each file. The file size is usually larger than an equivalent JPEG.
- **JPEG**—Creates and attaches a separate file for each page of your original document, viewable by most Web browsers and graphics programs
- **XPS**—Creates a single XPS file with multiple pages, viewable using an Internet Explorer-hosted viewer and the .NET Framework, or by downloading a third party standalone viewer

Content

This option tells the printer the original document type. Choose from Text, Text/Photo, or Photo. Color can be turned on or off with any of the Content choices. Content affects the quality and size of your FTP file.

- **Text**—Emphasize sharp, black, high-resolution text against a clean, white background
- **Text/Photo**—Used when the original documents are a mixture of text and graphics or pictures
- **Photograph**—Tells the scanner to pay extra attention to graphics and pictures. This setting increases the time it takes to scan, but emphasizes a reproduction of the full dynamic range of tones in the original document. This increases the amount of information saved.
- **Color**—Sets the scan type and output for the FTP file. Color documents can be scanned and sent to an FTP site, computer, e-mail address, or the printer.

Advanced Options

Touching this button opens a screen where you can change Advanced Imaging, Custom Job, Transmission Log, Scan Preview, Edge Erase, and Darkness settings.

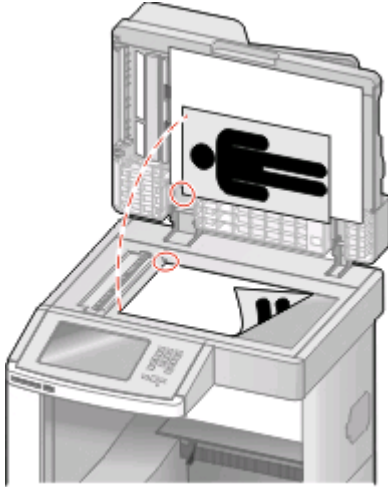
- **Advanced Imaging**—Adjusts image output settings before you scan the document
 - **Background Removal**—Adjusts the white portion of the output. Click the arrow buttons to increase or decrease the white portion.
 - **Color Dropout**—Color dropout is used for form Optical Character Recognition (OCR) processing. Selecting a color eliminates the color from a form, enabling improved OCR capabilities.
 - **Contrast**—Click the arrow buttons to increase or decrease the contrast.
 - **JPEG Quality**—Click the arrow buttons to increase or decrease the image compression.
 - **Mirror Image**—Select this box to create a mirror image scan.
 - **Negative Image**—Select this box to create a negative image scan.
 - **Shadow Detail**—Click the arrow buttons to increase or decrease the visible detail in the shadows.
 - **Scan edge to edge**—Select this box to scan edge to edge.
 - **Sharpness**—Click the arrow buttons to increase or decrease the sharpness.
- **Custom Job (Job Build)**—Combines multiple scanning jobs into a single job
- **Transmission Log**—Prints the transmission log or transmission error log
- **Scan Preview**—Displays the first page of an image before it is included in the FTP file. When the first page is scanned, the scanning is paused and a preview image appears.

- **Edge Erase**—Eliminates smudges or information around the edges of a document. You can choose to eliminate an equal area around all four sides of the paper, or pick a particular edge. Edge Erase will erase whatever is within the area selected, leaving nothing on that portion of the scan.
- **Darkness**—Adjusts how light or dark your scanned documents will turn out

Improving FTP quality

Question	Tip
When should I use Text mode?	• Use Text mode when text preservation is the main goal of sending a document to an FTP site, and preserving images copied from the original document is not a concern. • Text mode is recommended for receipts, carbon copy forms, and documents that only contain text or fine line art.
When should I use Text/Photo mode?	• Use Text/Photo mode when sending a document to an FTP site that contains a mixture of text and graphics. • Text/Photo mode is recommended for magazine articles, business graphics, and brochures.
When should I use Photo mode?	Use Photo mode when the original document is composed mostly of photos printed on a laser printer or taken from a magazine or newspaper.

Scanning to a computer or flash drive

ADF	Scanner glass
 Use the ADF for multiple-page documents.	 Use the scanner glass for single pages, small items (such as postcards or photos), transparencies, photo paper, or thin media (such as magazine clippings).

The scanner lets you scan documents directly to a computer or a flash drive. The computer does not have to be directly connected to the printer for you to receive Scan to PC images. You can scan the document back to the computer over the network by creating a scan profile on the computer and then downloading the profile to the printer.

Scanning to a computer

- 1 Type the printer IP address into the address field of your Web browser.

Note: If you do not know the IP address of the printer, then print a network setup page and locate the IP address in the TCP/IP section.

- 2 Click **Scan Profile**.
- 3 Click **Create**.
- 4 Select your scan settings, and then click **Next**.
- 5 Select a location on your computer where you want to save the scanned output file.
- 6 Enter a scan name.
The scan name is the name that appears in the Scan Profile list on the display.
- 7 Click **Submit**.
- 8 Review the instructions on the Scan Profile screen.

A shortcut number was automatically assigned when you clicked Submit. You can use this shortcut number when you are ready to scan your documents.

- a Load an original document faceup, short edge first into the ADF or facedown on the scanner glass.
Note: Do not load postcards, photos, small items, transparencies, photo paper, or thin media (such as magazine clippings) into the ADF. Place these items on the scanner glass.
- b If you are loading a document into the ADF, then adjust the paper guides.
- c Press **#**, and then enter the shortcut number using the keypad, or touch **Held Jobs** on the home screen, and then touch **Profiles**.
- d After you enter the shortcut number, the scanner scans and sends the document to the directory or program you specified. If you touched **Profiles** on the home screen, then locate your shortcut on the list.

9 Return to the computer to view the file.

The output file is saved in the location you specified or launched in the program you specified.

Scanning to a flash drive

- 1 Load an original document faceup, short edge first into the ADF or facedown on the scanner glass.
Note: Do not load postcards, photos, small items, transparencies, photo paper, or thin media (such as magazine clippings) into the ADF. Place these items on the scanner glass.
- 2 If you are loading a document into the ADF, then adjust the paper guides.
- 3 Insert the flash drive into the USB port on the front of the printer.
The Held Jobs screen appears.
- 4 Touch **Scan to USB drive**.
- 5 Select the scan settings.
- 6 Touch **Scan It**.

Understanding scan profile options

Quick Setup

This option lets you select preset formats or customize the scan job settings. You can select one of these settings:

Custom	Photo - Color JPEG
Text - BW PDF	Photo - Color TIFF
Text - BW TIFF	Text/Photo - BW PDF Text/Photo - Color PDF

To customize the scan job settings, from the Quick Setup menu, select **Custom**. Then change the scan settings as needed.

Format Type

This option sets the output (PDF, JPEG, TIFF, SECURE PDF, or XPS) for the scanned image.

- **PDF**—Creates a single file with multiple pages, viewable with Adobe Reader. Adobe Reader is provided free by Adobe at www.adobe.com.
- **JPEG**—Creates and attaches a separate file for each page of your original document, viewable by most Web browsers and graphics programs
- **TIFF**—Creates multiple files or a single file. If Multi-page TIFF is turned off in the Settings menu of the Embedded Web Server, then TIFF saves one page in each file. The file size is usually larger than an equivalent JPEG.
- **Secure PDF**—Creates an encrypted PDF file that protects the file contents from unauthorized access
- **XPS**—Creates a single XPS file with multiple pages, viewable using an Internet Explorer-hosted viewer and the .NET Framework, or by downloading a third party standalone viewer

Compression

This option sets the format used to compress the scanned output file.

Default Content

This option tells the printer the original document type. Choose from Text, Text/Photo, or Photo. Content affects the quality and size of your scanned file.

Text—Emphasizes sharp, black, high-resolution text against a clean, white background

Text/Photo—Used when the original documents are a mixture of text and graphics or pictures

Photo—Tells the scanner to pay extra attention to graphics and pictures. This setting increases the time it takes to scan, but emphasizes a reproduction of the full dynamic range of tones in the original document. This increases the amount of information saved.

Color

This option tells the printer the color of the original documents. You can select Gray, BW (Black and White), or Color.

Original Size

This option sets the size of the documents you are going to scan. When Original Size is set to Mixed Sizes, you can scan an original document that contains mixed paper sizes (letter- and legal-size pages).

Orientation

This option tells the printer whether the original document is in portrait or landscape orientation and then changes the Sides and Binding settings to match the original document orientation.

Sides (Duplex)

This option informs the printer if your original document is simplex (printed on one side) or duplex (printed on both sides). This lets the scanner know what needs to be scanned for inclusion in the document.

Darkness

This option adjusts how light or dark your scanned documents will turn out in relation to the original document.

Resolution

This option adjusts the output quality of your file. Increasing the image resolution increases the file size and the time needed to scan your original document. Image resolution can be decreased to reduce the file size.

Advanced Imaging

This option lets you adjust Background Removal, Contrast, Shadow Detail, Sharpness, and Color Dropout before you scan the document. It also lets you Scan edge to edge, as a Mirror Image, or as a Negative Image.

- **Background Removal**—Adjusts the white portion of the output. Click the arrow buttons to increase or decrease the white portion.
- **Contrast**—Click the arrow buttons to increase or decrease the contrast.
- **Shadow Detail**—Click the arrow buttons to increase or decrease the visible detail in the shadows.
- **Sharpness**—Click the arrow buttons to increase or decrease the sharpness.
- **Color Dropout**—Color dropout is used for form Optical Character Recognition (OCR) processing. Selecting a color eliminates the color from a form, enabling improved OCR capabilities.
- **Color Dropout Threshold**—Click the arrow buttons to increase or decrease the amount of color dropout.
- **Scan edge to edge**—Select this box to scan edge to edge.
- **Mirror Image**—Select this box to create a mirror image scan.
- **Negative Image**—Select this box to create a negative image scan.

Improving scan quality

Question	Tip
When should I use Text mode?	• Use Text mode when text preservation is the main goal of the scan, and preserving images copied from the original document is not a concern. • Text mode is recommended for receipts, carbon copy forms, and documents that only contain text or fine line art.
When should I use Text/Photo mode?	• Use Text/Photo mode when scanning an original document that contains a mixture of text and graphics. • Text/Photo mode is recommended for magazine articles, business graphics, and brochures.
When should I use Photo mode?	Use Photo mode when scanning photos printed on a laser printer or taken from a magazine or newspaper.

Printing

This chapter covers printing, printer reports, and job cancelation. Selection and handling of paper and specialty media can affect how reliably documents print. For more information, see “Avoiding jams” on page 139 and “Storing paper” on page 88.

Printing a document

- 1 Load paper into a tray or feeder.
- 2 From the printer control panel Paper menu, set the Paper Type and Paper Size to match the loaded paper.
- 3 Do one of the following:

For Windows users

- a With a document open, click **File → Print**.
- b Click **Properties, Preferences, Options, or Setup**, and then adjust the settings as needed.
Note: To print on a specific size or type of paper, adjust the paper size or type settings to match the loaded paper, or select the appropriate tray or feeder.
- c Click **OK**, and then click **Print**.

For Macintosh users

- a Customize the settings as needed in the Page Setup dialog:
 - 1 With a document open, choose **File > Page Setup**.
 - 2 Choose a paper size or create a custom size to match the loaded paper.
 - 3 Click **OK**.
- b Customize the settings as needed in the Print dialog:
 - 1 With a document open, choose **File > Print**.
If necessary, click the disclosure triangle to see more options.
 - 2 From the Print dialog and pop-up menus, adjust the settings as needed.
Note: To print on a specific paper type, adjust the paper type setting to match the loaded paper, or select the appropriate tray or feeder.
 - 3 Click **Print**.

Printing on specialty media

Tips on using letterhead

- Use letterhead designed specifically for laser printers.
- Print samples on the letterhead being considered for use before buying large quantities.
- Before loading letterhead, fan the stack to prevent sheets from sticking together.

- Page orientation is important when printing on letterhead. For information on how to load letterhead, see:
 - “Loading the standard or optional 250-sheet or 550-sheet tray” on page 73
 - “Loading the 2000-sheet tray” on page 76
 - “Loading the multipurpose feeder” on page 80

Tips on using transparencies

Print samples on the transparencies being considered for use before buying large quantities.

When printing on transparencies:

- Feed transparencies from a 250-sheet tray, a 550-sheet tray, or the multipurpose feeder.
- Use transparencies designed specifically for laser printers. Check with the manufacturer or vendor to ensure transparencies are able to withstand temperatures up to 230°C (446°F) without melting, discoloring, offsetting, or releasing hazardous emissions.
- Use transparencies that are 138–146 g/m² (37–39 lb. bond) in weight.
- To prevent print quality problems, avoid getting fingerprints on the transparencies.
- Before loading transparencies, fan the stack to prevent sheets from sticking together.
- We recommend Lexmark part number 12A5010 for A4-size transparencies and Lexmark part number 70X7240 for letter-size transparencies.

Tips on using envelopes

Print samples on the envelopes being considered for use before buying large quantities.

When printing on envelopes:

- Feed envelopes from the multipurpose feeder or the optional envelope feeder.
- Set the Paper Type to Envelope, and select the envelope size.
- Use envelopes designed specifically for laser printers. Check with the manufacturer or vendor to ensure the envelopes can withstand temperatures up to 230°C (446°F) without sealing, wrinkling, curling excessively, or releasing hazardous emissions.
- For the best performance, use envelopes made from 90 g/m² (24 lb bond) paper. Use up to 105 g/m² (28 lb bond) weight for envelopes as long as the cotton content is 25% or less. All-cotton envelopes must not exceed 90 g/m² (24 lb bond) weight.
- Use only new envelopes.
- To optimize performance and minimize jams, do not use envelopes that:
 - Have excessive curl or twist
 - Are stuck together or damaged in any way
 - Have windows, holes, perforations, cutouts, or embossing
 - Have metal clasps, string ties, or folding bars
 - Have an interlocking design
 - Have postage stamps attached
 - Have any exposed adhesive when the flap is in the sealed or closed position

- Have bent corners
- Have rough, cockle, or laid finishes
- Adjust the width guide to fit the width of the envelopes.

Note: A combination of high humidity (over 60%) and the high printing temperature may wrinkle or seal envelopes.

Tips on using labels

Print samples on the labels being considered for use before buying large quantities.

Notes:

- Paper, dual-web paper, polyester, and vinyl labels are supported.
- When using the duplex unit, specially-designed, integrated, and dual-web paper labels are supported.
- Printing labels requires a special label fuser cleaner which is included with the special cartridge required for label applications. For more information, see “Ordering supplies” on page 253.

For detailed information on label printing, characteristics, and design, see the *Card Stock & Label Guide* available on the Lexmark Web site at **www.lexmark.com/publications**.

When printing on labels:

- Feed labels from a 250-sheet tray, a 550-sheet tray, or the multipurpose feeder.
- Use labels designed specifically for laser printers. Check with the manufacturer or vendor to verify that:
 - The labels can withstand temperatures up to 230°C (446°F) without sealing, excessive curling, wrinkling, or releasing hazardous emissions.
 - Label adhesives, face sheet (printable stock), and topcoats can withstand up to 25 psi (172 kPa) pressure without delaminating, oozing around the edges, or releasing hazardous fumes.
- Do not use labels with slick backing material.
- Use full label sheets. Partial sheets may cause labels to peel off during printing, resulting in a jam. Partial sheets also contaminate the printer and the cartridge with adhesive, and could void the printer and cartridge warranties.
- Do not use labels with exposed adhesive.
- Do not print within 1 mm (0.04 in.) of the edge of the label, of the perforations, or between die-cuts of the label.
- Be sure adhesive backing does not reach to the sheet edge. Zone coating of the adhesive at least 1 mm (0.04 in.) away from edges is recommended. Adhesive material contaminates the printer and could void the warranty.
- If zone coating of the adhesive is not possible, remove a 1.6-mm (0.06-in.) strip on the leading and driver edge, and use a non-oozing adhesive.
- Portrait orientation works best, especially when printing bar codes.

Tips on using card stock

Cardstock is heavy, single-ply specialty media. Many of its variable characteristics, such as moisture content, thickness, and texture, can significantly impact print quality. Print samples on the card stock being considered for use before buying large quantities.

When printing on card stock:

- Feed card stock from a 250-sheet tray, a 550-sheet tray, or the multipurpose feeder.
- Make sure the Paper Type is Card Stock.
- Select the appropriate Paper Texture setting.

- Be aware that preprinting, perforation, and creasing may significantly affect the print quality and cause jams or other paper handling problems.
- Check with the manufacturer or vendor to ensure the card stock can withstand temperatures up to 230°C (446°F) without releasing hazardous emissions.
- Do not use preprinted card stock manufactured with chemicals that may contaminate the printer. Preprinting introduces semi-liquid and volatile components into the printer.
- Use grain short card stock when possible.

Printing confidential and other held jobs

Holding jobs in the printer

When sending a job to the printer, you can specify that you want the printer to hold the job in memory until you start the job from the printer control panel. All print jobs that can be initiated by the user at the printer are called *held jobs*.

Note: Confidential, Verify, Reserve, and Repeat print jobs may be deleted if the printer requires extra memory to process additional held jobs.

Job type	Description
Confidential	When you send a Confidential print job to the printer, you must create a PIN from the computer. The PIN must be four digits using the numbers 0–9. The job is held in printer memory until you enter the PIN from the printer control panel and choose to print or delete the job.
Verify	When you send a Verify print job, the printer prints one copy and holds the remaining copies in printer memory. Verify lets you examine the first copy to see if it is satisfactory before printing the remaining copies. Once all copies are printed, the job is automatically deleted from printer memory.
Reserve	When you send a Reserve print job, the printer does not print the job immediately. It stores the job in memory so you can print the job later. The job is held in memory until you delete it from the Held Jobs menu.
Repeat	When you send a Repeat print job, the printer prints all requested copies of the job <i>and</i> stores the job in memory so you can print additional copies later. You can print additional copies as long as the job remains stored in memory.

Other types of held jobs include:

- Profiles from various sources including Lexmark Document Solutions Suite (LDSS)
- Forms from a kiosk
- Bookmarks
- Jobs not printed, which are called *parked jobs*

Printing confidential and other held jobs from Windows

Note: Confidential and Verify print jobs are automatically deleted from memory after they print. Repeat and Reserve jobs continue to be held in the printer until you choose to delete them.

- 1 With a document open, click **File → Print**.
- 2 Click **Properties, Preferences, Options, or Setup**.
- 3 Click **Other Options**, and then click **Print and Hold**.
- 4 Select your job type (Confidential, Reserve, Repeat, or Verify), and then assign a user name. For a confidential job, also enter a four-digit PIN.
- 5 Click **OK** or **Print**, and then go to the printer to release the job.
- 6 On the home screen, touch **Held jobs**.
- 7 Touch your user name.
Note: A maximum of 500 results can be displayed for held jobs. If your name does not appear, touch the down arrow until your name appears, or touch **Search Held Jobs** if there are a large number of held jobs in the printer.
- 8 Touch **Confidential Jobs**.
- 9 Enter your PIN.
- 10 Touch the job you want to print.
- 11 Touch **Print**, or touch the arrows to increase or decrease the number of copies, and then touch **Print**.

Printing confidential and other held jobs from a Macintosh computer

Note: Confidential and Verify print jobs are automatically deleted from memory after they print. Repeat and Reserve jobs continue to be held in the printer until you choose to delete them.

- 1 With a document open, choose **File > Print**.
If necessary, click the disclosure triangle to see more options.
- 2 From the print options or Copies & Pages pop-up menu, choose **Job Routing**.
- 3 Select your job type (Confidential, Reserve, Repeat, or Verify), and then assign a user name. For a confidential job, also enter a four-digit PIN.
- 4 Click **OK** or **Print**, and then go to the printer to release the job.
- 5 On the home screen, touch **Held jobs**.
- 6 Touch your user name.
Note: A maximum of 500 results can be displayed for held jobs. If your name does not appear, touch the down arrow until your name appears, or touch **Search Held Jobs** if there are a large number of held jobs in the printer.
- 7 Touch **Confidential Jobs**.
- 8 Enter your PIN.
- 9 Touch the job you want to print.
- 10 Touch **Print**, or touch the arrows to increase or decrease the number of copies, and then touch **Print**.

Printing from a flash drive

A USB port is located on the printer control panel. Insert a flash drive to print supported file types. Supported file types include: .pdf, .gif, .jpeg, .jpg, .bmp, .png, .tiff, .tif, .pcx, and .dcx.

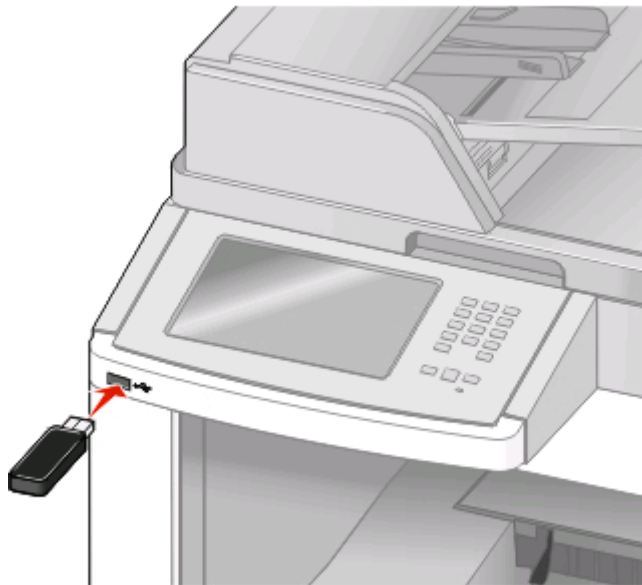
Many flash drives are tested and approved for use with the printer. For more information, visit the Lexmark Web site at www.lexmark.com.

Notes:

- Hi-Speed flash drives must support the Full-speed standard. Flash drives supporting only USB Low-speed capabilities are not supported.
- USB devices must support the FAT (*File Allocation Tables*) system. Devices formatted with NTFS (*New Technology File System*) or any other file system are not supported.
- If selecting an encrypted .pdf file, then enter the file password from the printer control panel.
- Before printing an encrypted .pdf file, enter the file password from the printer control panel.
- You cannot print files for which you do not have printing permissions.

To print from a flash drive:

- 1 Make sure the printer is on and **Ready** appears.
- 2 Insert a flash drive into the USB port.



Notes:

- If you insert the flash drive when the printer requires attention, such as when a jam has occurred, then the printer ignores the flash drive.
- If you insert the flash drive while the printer is printing other jobs, then **Printer Busy** appears. After the other jobs are processed, you may need to view the held jobs list to print documents from the flash drive.

- 3 Touch the document you want to print.

Note: Folders found on the flash drive appear as folders. File names are appended by the extension type (for example, .jpg).

4 Touch the arrows if you want to increase the number of printed copies.

5 Touch **Print**.

Note: Do not remove the flash drive from the USB port until the document has finished printing.

If you leave the flash drive in the printer after leaving the initial USB menu screen, then you can still print .pdf files from the flash drive as held jobs.

Printing information pages

Printing a directory list

A directory list shows the resources stored in flash memory or on the printer hard disk.

- 1 Make sure the printer is on and **Ready** appears.
- 2 On the home screen, touch .
- 3 Touch **Reports**.
- 4 Touch the down arrow until **Print Directory** appears.
- 5 Touch **Print Directory**.

Printing the print quality test pages

Print the print quality test pages to isolate print quality problems.

- 1 Turn the printer off.
- 2 Hold down  and  while turning the printer on.
- 3 Release the buttons when the screen with the progress bar appears.
The printer performs a power-on sequence, and then the Configuration menu appears.
- 4 Touch the down arrow until **Print Quality Pages** appears.
- 5 Touch **Print Quality Pages**.
The print quality test pages print.
- 6 Touch **Back**.
- 7 Touch **Exit Configuration**.

Canceling a print job

Canceling a print job from the printer control panel

- 1 Touch **Cancel Jobs** on the touch screen, or press  on the keypad.
- 2 Touch the job you want to cancel.
- 3 Touch **Delete Selected Jobs**.

Canceling a print job from the computer

To cancel a print job, do one of the following:

For Windows users

In Windows Vista:

- 1 Click .
- 2 Click **Control Panel**.
- 3 Click **Hardware and Sound**.
- 4 Click **Printers**.
- 5 Double-click the printer icon.
- 6 Select the job to cancel.
- 7 From the keyboard, press **Delete**.

In Windows XP:

- 1 Click **Start**.
- 2 From **Printers and Faxes**, double-click the printer icon.
- 3 Select the job to cancel.
- 4 From the keyboard, press **Delete**.

From the Windows taskbar:

When you send a job to print, a small printer icon appears in the right corner of the taskbar.

- 1 Double-click the printer icon.
A list of print jobs appears in the printer window.
- 2 Select a job to cancel.
- 3 From the keyboard, press **Delete**.

For Macintosh users

In Mac OS X version 10.5:

- 1 From the Apple menu, choose **System Preferences**.
- 2 Click **Print & Fax**, and then double-click the printer icon.
- 3 From the printer window, select the job to cancel.
- 4 From the icon bar at the top of the window, click the **Delete** icon.

In Mac OS X version 10.4 and earlier:

- 1 From the Go menu, choose **Applications**.
- 2 Double-click **Utilities**, and then double-click **Print Center** or **Printer Setup Utility**.
- 3 Double-click the printer icon.

- 4 From the printer window, select the job to cancel.
- 5 From the icon bar at the top of the window, click the **Delete** icon.

Clearing jams

Jam error messages appear on the control panel display and include the area of the printer where the jam occurred. When there is more than one jam, the number of jammed pages is displayed.

Avoiding jams

The following hints can help you avoid jams.

Paper tray recommendations

- Make sure the paper lies flat in the tray.
- Do not remove trays while the printer is printing.
- Do not load trays, the multipurpose feeder, or the envelope feeder while the printer is printing. Load them prior to printing, or wait for a prompt to load them.
- Do not load too much paper. Make sure the stack height does not exceed the indicated maximum height.
- Make sure the guides in the paper trays, multipurpose feeder, or envelope feeder are properly positioned and are not pressing too tightly against the paper or envelopes.
- Push all trays in firmly after loading paper.

Paper recommendations

- Use only recommended paper or specialty media. For more information, see “Paper types and weights supported by the printer” on page 91.
- Do not load wrinkled, creased, damp, bent, or curled paper.
- Flex, fan, and straighten paper before loading it.
- Do not use paper that has been cut or trimmed by hand.
- Do not mix paper sizes, weights, or types in the same stack.
- Make sure all sizes and types are set correctly in the printer control panel menus.
- Store paper per the manufacturer's recommendations.

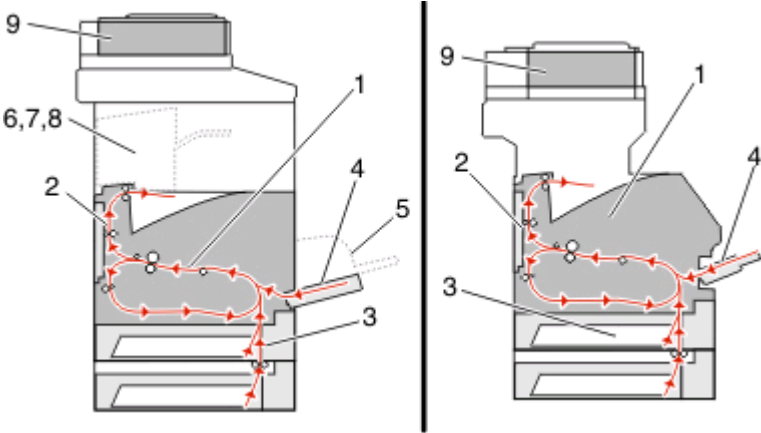
Envelope recommendations

- To reduce wrinkling, use the Envelope Enhance menu in the Paper menu.
- Do not feed envelopes that:
 - Have excessive curl or twist
 - Have windows, holes, perforations, cutouts, or embossing
 - Have metal clasps, string ties, or folding bars
 - Have an interlocking design
 - Have postage stamps attached
 - Have any exposed adhesive when the flap is in the sealed or closed position
 - Have bent corners
 - Have rough, cockle, or laid finishes
 - Are stuck together or damaged in any way

Understanding jam numbers and locations

When a jam occurs, a message indicating the jam location appears. Open doors and covers and remove trays to access jam locations. To resolve any paper jam message, you must clear all jammed paper from the paper path.

The following table lists the jams that can occur and the location of each jam:

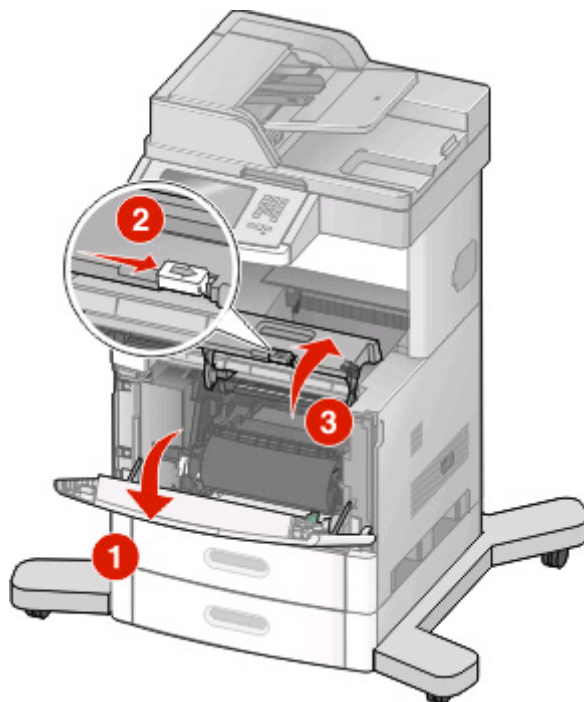


	Jam numbers	Area
1	200–202	Printer
2	230–239	Duplex unit
3	240–249	Paper tray
4	250	Multipurpose feeder
5	260	Envelope feeder
6	270–279	Optional output bin
7	280–282	Finisher
8	283	Stapler
9	290–294	ADF cover

200 and 201 paper jams

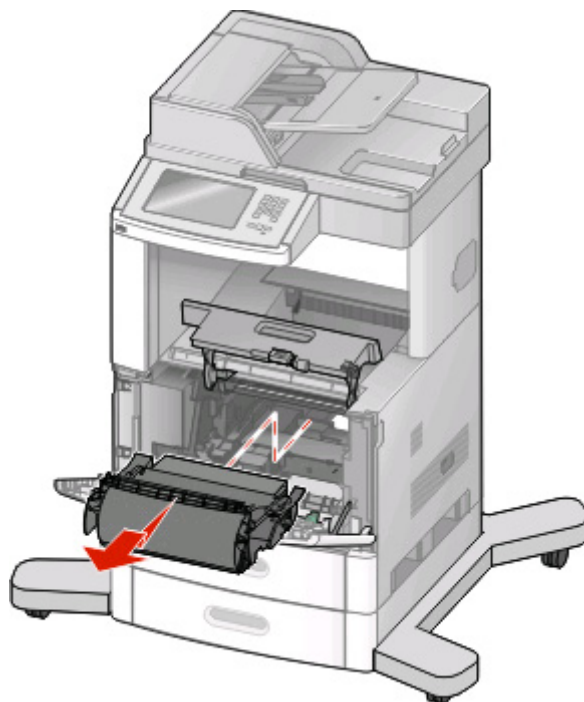
- 1 Touch **Status/Supplies** to identify the location of the jam.
- 2 Lower the multipurpose feeder door.

- 3 Push the release latch, and then open the front cover.



- 4 Lift and pull the print cartridge out of the printer.

Warning—Potential Damage: Do not touch the photoconductor drum on the underside of the cartridge. Use the cartridge handle whenever you are holding the cartridge.



- 5 Place the print cartridge aside.

Warning—Potential Damage: Do not leave the cartridge exposed to light for extended periods.

Warning—Potential Damage: The jammed paper may be covered with unfused toner which can stain garments and skin.

- 6 Remove the jammed paper.



CAUTION—HOT SURFACE: The inside of the printer might be hot. To reduce the risk of injury from a hot component, allow the surface to cool before touching.

Note: If the paper is not easy to remove, then open the rear door and remove the paper from there.

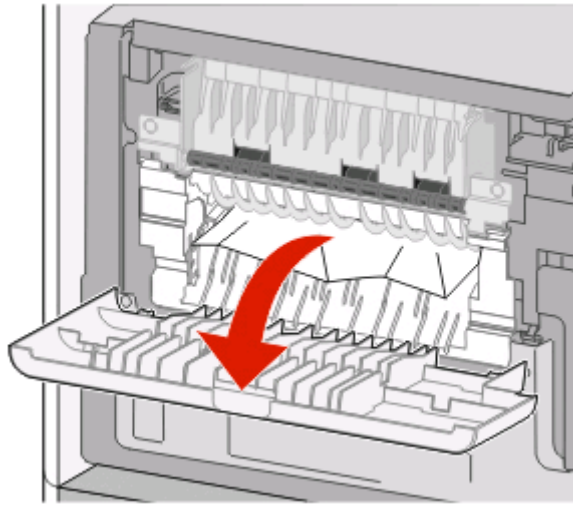
- 7 Align and reinstall the print cartridge.
- 8 Close the front cover.
- 9 Close the multipurpose feeder door.
- 10 Touch **Continue**.

202 paper jam

Touch **Status/Supplies** to identify the location of the jam. If the paper is exiting the printer, then pull the paper out, and then touch **Continue**.

If the paper is not exiting the printer:

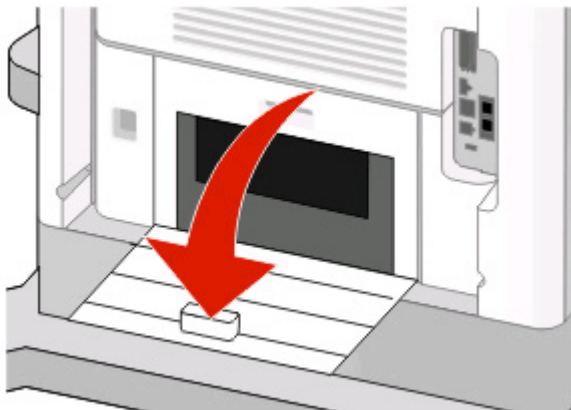
- 1 Pull down the top rear door.



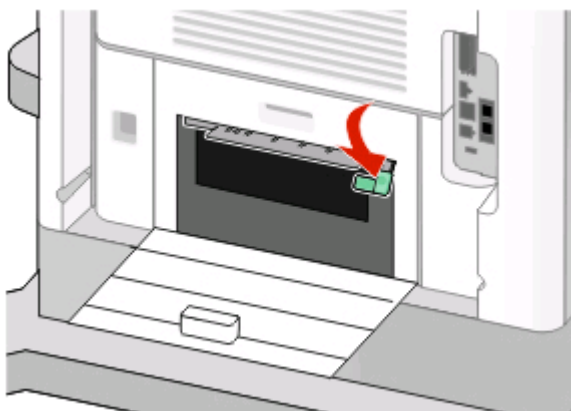
- 2 Remove the jammed paper.
- 3 Close the top rear door.
- 4 Touch **Continue**.

230–239 paper jams

- 1 Touch **Status/Supplies** to identify the location of the jam.
- 2 Pull the standard tray out.
- 3 Pull down the bottom rear door.



- 4 Push the tab down.



- 5 Remove the jammed paper.
- 6 Close the bottom rear door.
- 7 Insert the standard tray.
- 8 Touch **Continue**.

240–249 paper jams

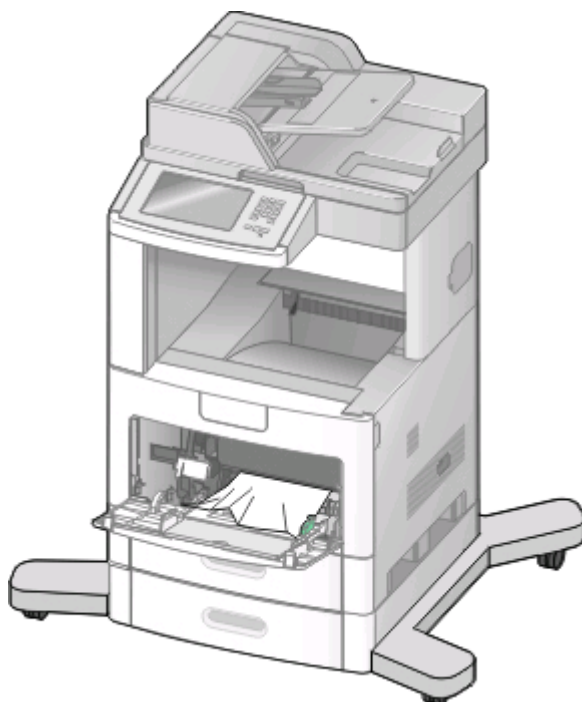
- 1 Touch **Status/Supplies** to identify the location of the jam.
- 2 Pull the standard tray out.



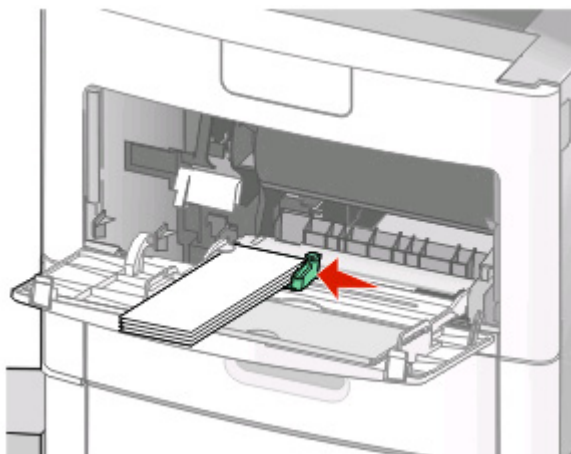
- 3 Remove any jammed paper, and then close the tray.
- 4 Touch **Continue**.
- 5 If the jam message persists, then pull out any optional trays.
- 6 Remove the jammed paper, and then insert the trays.
- 7 Touch **Continue**.

250 paper jam

- 1 Touch **Status/Supplies** to identify the location of the jam.
- 2 Remove the paper from the multipurpose feeder.



- 3 Flex the sheets of paper back and forth to loosen them, and then fan them. Do not fold or crease the paper. Straighten the edges on a level surface.
- 4 Load the paper into the multipurpose feeder.
- 5 Slide the paper guide toward the inside of the tray until it lightly rests against the edge of the paper.



- 6 Touch **Continue**.

260 paper jam

Touch **Status/Supplies** to identify the location of the jam. The envelope feeder feeds envelopes from the bottom of the stack; the bottom envelope will be the one that is jammed.

- 1 Lift the envelope weight.
- 2 Remove all envelopes.
- 3 If the jammed envelope has entered the printer and cannot be pulled out, then lift the envelope feeder up and then out of the printer, and then set it aside.
- 4 Remove the envelope from the printer.
Note: If you cannot remove the envelope, then the print cartridge will have to be removed. For more information, see "200 and 201 paper jams" on page 140.
- 5 Reinstall the envelope feeder. Make sure it *snaps* into place.
- 6 Flex and stack the envelopes.
- 7 Load the envelopes in the envelope feeder.
- 8 Adjust the paper guide.
- 9 Lower the envelope weight.
- 10 Touch **Continue**.

270–279 paper jams

To clear a jam in the high-capacity output stacker or the 4-bin mailbox:

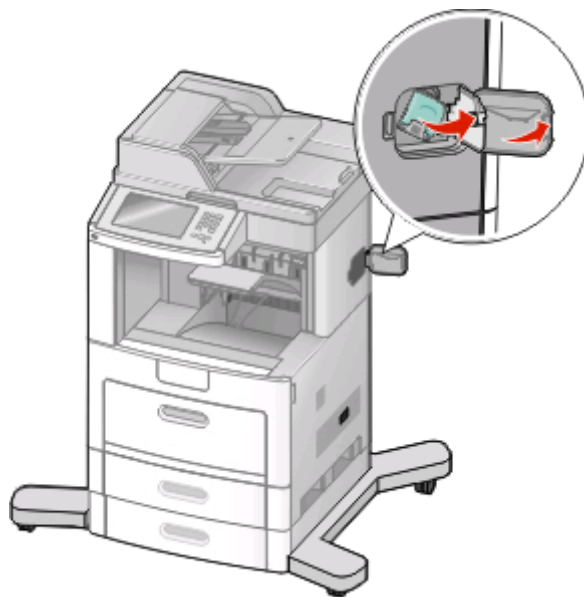
- 1 Touch **Status/Supplies** to identify the location of the jam.
- 2 If the paper is exiting into a bin, then pull the paper straight out, and then touch **Continue**.
If not, then continue with step 3.
- 3 Pull down the output bin door or doors.
- 4 Remove the jammed paper.
- 5 Close the output bin door or doors.
- 6 Touch **Continue**.

280–282 paper jams

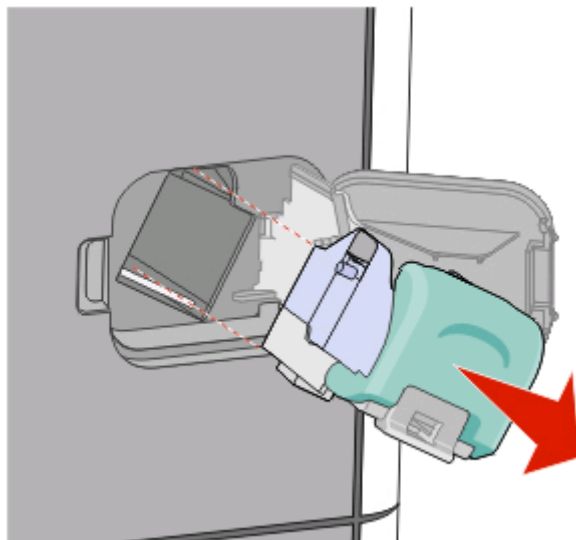
- 1 Touch **Status/Supplies** to identify the location of the jam.
- 2 Pull down the StapleSmart finisher door.
- 3 Remove the jammed paper.
- 4 Close the StapleSmart finisher door.
- 5 Touch **Continue**.

283 staple jams

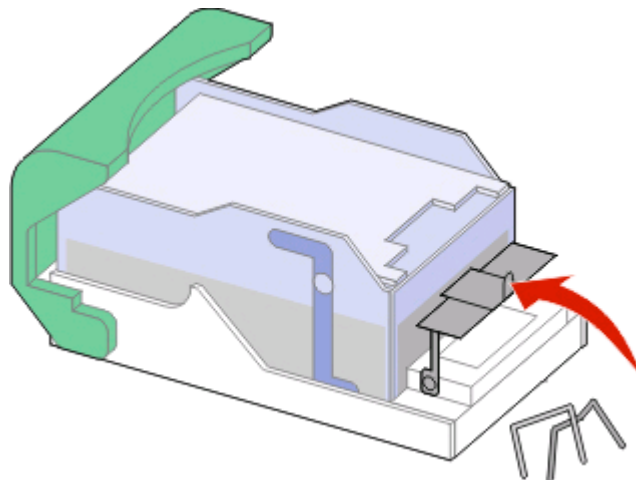
- 1 Touch **Status/Supplies** to identify the location of the jam.
- 2 Press the latch to open the stapler door.



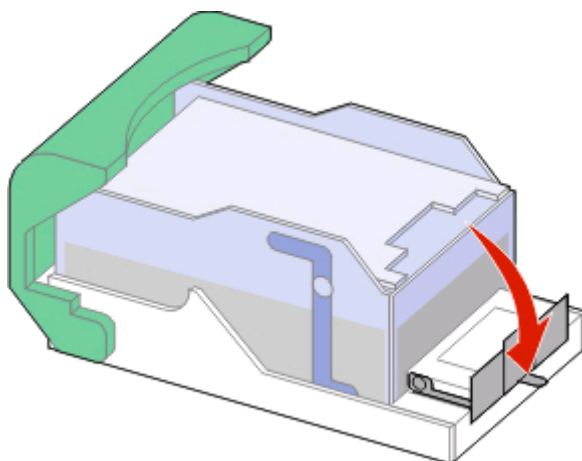
- 3 Pull the latch of the staple cartridge holder down, and then pull the holder out of the printer.



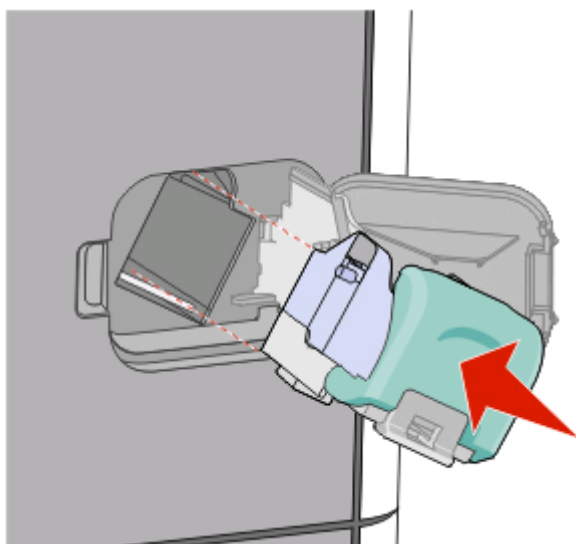
- 4** Use the metal tab to lift the staple guard, and then remove any loose staples.



- 5** Close the staple guard.



- 6** Press down on the staple guard until it *snaps* into place.



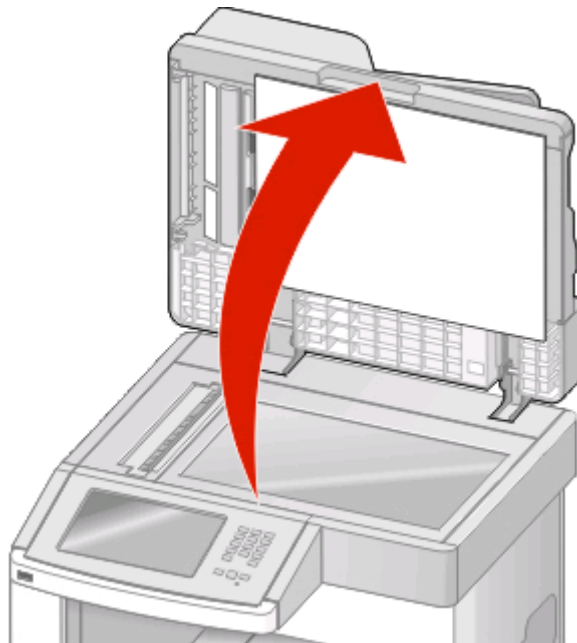
- 7 Push the cartridge holder firmly back into the stapler unit until the cartridge holder *clicks* into place.
- 8 Close the stapler door.

290–294 paper jams

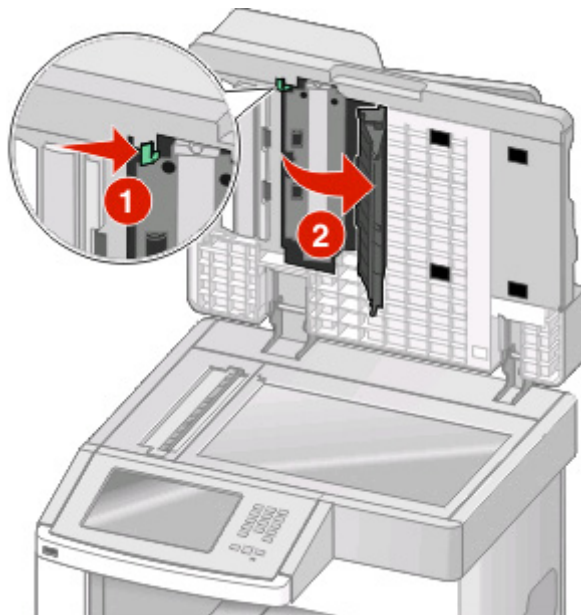
- 1 Remove all original documents from the ADF.
- 2 Open the ADF cover, and then remove any jammed paper.



- 3 Close the ADF cover.
- 4 Open the scanner cover, and then remove any jammed pages.



- 5 Open the bottom ADF door, and then remove any jammed pages.



- 6 Close the bottom ADF door and scanner cover.

- 7 Touch **Restart Job**.

Understanding printer menus

Menus list

A number of menus are available to make it easy for you to change printer settings. To access the menus, touch  on the home screen.

Paper Menu

- Default Source
- Paper Size/Type
- Configure MP
- Envelope Enhance
- Substitute Size
- Paper Texture
- Paper Weight
- Paper Loading
- Custom Types
- Custom Names
- Custom Scan Sizes
- Custom Bin Names
- Universal Setup
- Bin Setup

Reports

- Menu Settings Page
- Device Statistics
- Network Setup Page
- Network <x> Setup Page
- Wireless Setup Page¹
- Shortcut List
- Fax Job Log
- Fax Call Log
- Copy Shortcuts
- E-mail Shortcuts
- Fax Shortcuts
- FTP Shortcuts
- Profiles List
- NetWare Setup Page
- Print Fonts
- Print Directory
- Asset Report

Network/Ports

- Active NIC
- Standard Network²
- SMTP Setup
- Standard USB
- Parallel <x>
- Serial <x>

¹ Only appears if a wireless card is installed.

² Depending on the printer setup, this menu item appears as Standard Network or Network <x>.

Security

- Edit Security Setups
- Miscellaneous Security Settings
- Confidential Print
- Disc Wiping
- Security Audit Log
- Set Date and Time

Settings

- General Settings
- Copy Settings
- Fax Settings
- E-mail Settings
- FTP Settings
- Flash Drive Menu
- Print Settings

Help

- Print all guides
- Copy guide
- E-mail guide
- Fax guide
- FTP guide
- Information guide
- Print Defects guide
- Supplies Guide

Paper menu

Default Source menu

Menu item	Description
Default Source Tray <x> MP Feeder Envelope Feeder Manual Paper Manual Env	Sets a default paper source for all print jobs Notes: • Tray 1 (standard tray) is the factory default setting. • Only an installed paper source will appear as a menu setting. • A paper source selected by a print job will override the Default Source setting for the duration of the print job. • If the same size and type of paper are in two trays and the Paper Size and Paper Type settings match, then the trays are automatically linked. When one tray is empty, the job prints using the linked tray. • From the Paper menu, Configure MP must be set to Cassette in order for MP Feeder to appear as a menu setting.

Paper Size/Type menu

Menu item	Description
Tray <x> Size A4 A5 A6 JIS B5 Letter Legal Executive ¹ Oficio ¹ Folio Statement ¹ Universal	Specifies the paper size loaded in each tray Notes: • A4 is the international factory default setting. Letter is the US factory default setting. • For trays with automatic size sensing, only the size detected by the hardware appears. • Use this menu item to configure automatic tray linking. If the same size and type of paper are in two trays and the Paper Size and Paper Type settings match, then the trays are automatically linked. When one tray is empty, the job prints using the linked tray. • Automatic size sensing is not supported for Oficio, Folio, or Statement paper sizes. • The 2000-sheet tray supports A4, Letter, and Legal paper sizes.

¹ Appears only if Tray Size Sensing is turned off.

Note: Only installed trays, drawers, and feeders are listed in this menu.

Menu item	Description
Tray <x> Type Plain Paper Card Stock Transparency Recycled Labels Vinyl Labels Bond Letterhead Preprinted Colored Paper Light Paper Heavy Paper Rough/Cotton Paper Custom Type <x>	Specifies the type of paper loaded in each tray Notes: • Plain Paper is the factory default setting for Tray 1. Custom Type <x> is the factory default setting for all other trays. • If available, a user-defined name will appear instead of Custom Type <x>. • Use this menu item to configure automatic tray linking. If the same size and type of paper are in two trays and the Paper Size and Paper Type settings match, then the trays are automatically linked. When one tray is empty, the job prints using the linked tray.
MP Feeder Size A4 A5 A6 JIS B5 Letter Legal Executive Oficio Folio Statement Universal 7 3/4 Envelope 9 Envelope 10 Envelope DL Envelope Other Envelope	Specifies the paper size loaded in the multipurpose feeder Notes: • From the Paper menu, Configure MP must be set to Cassette in order for MP Feeder Size to appear as a menu item. • A4 is the international factory default setting. Letter is the US factory default setting. • The multipurpose feeder does not automatically sense paper size. The paper size value must be set.
¹ Appears only if Tray Size Sensing is turned off. Note: Only installed trays, drawers, and feeders are listed in this menu.	

Menu item	Description
MP Feeder Type Plain Paper Card Stock Transparency Recycled Labels Vinyl Labels Bond Envelope Rough Envelope Letterhead Preprinted Colored Paper Light Paper Heavy Paper Rough/Cotton Paper Custom Type <x>	Specifies the type of paper loaded in the multipurpose feeder Notes: - From the Paper menu, Configure MP must be set to Cassette in order for MP Feeder Type to appear as a menu item. - Plain Paper is the factory default setting.
Envelope Feeder Size 7 3/4 Envelope 9 Envelope 10 Envelope DL Envelope Other Envelope	Specifies the envelope size loaded in the envelope feeder Note: DL Envelope is the international factory default setting. 10 Envelope is the US factory default setting.
Envelope Feeder Type Envelope Rough Envelope Custom Type <x>	Specifies the type of envelope loaded in the envelope feeder Notes: - Envelope is the factory default setting. - The Custom Type setting can be used to store up to six types of envelopes.
Manual Paper Size A4 A5 A6 JIS B5 Letter Legal Executive Oficio Folio Statement Universal	Specifies the size of the paper being manually loaded Note: A4 is the international factory default setting. Letter is the US factory default setting.
¹ Appears only if Tray Size Sensing is turned off. Note: Only installed trays, drawers, and feeders are listed in this menu.	

Menu item	Description
Manual Paper Type Plain Paper Card Stock Transparency Recycled Labels Vinyl Labels Bond Letterhead Preprinted Colored Paper Light Paper Heavy Paper Rough/Cotton Paper Custom Type <x>	Specifies the type of paper being manually loaded Note: Plain Paper is the factory default setting.
Manual Envelope Size 7 3/4 Envelope 9 Envelope 10 Envelope DL Envelope Other Envelope	Specifies the size of the envelope being manually loaded Note: DL Envelope is the international factory default setting. 10 Envelope is the US factory default setting.
Manual Envelope Type Envelope Rough Envelope Custom Type <x>	Specifies the type of envelope being manually loaded Note: Envelope is the factory default setting.
¹ Appears only if Tray Size Sensing is turned off. Note: Only installed trays, drawers, and feeders are listed in this menu.	

Configure MP menu

Menu item	Description
Configure MP Cassette Manual First	Determines when the printer selects paper from the multipurpose feeder Notes: • Cassette is the factory default setting. • The Cassette setting configures the multipurpose feeder as an automatic paper source. • When Manual is selected, the multipurpose feeder can be used only for manual feed print jobs. • If paper is loaded in the multipurpose feeder and First is selected, then paper always feeds from the multipurpose feeder first.

Envelope Enhance

The envelope conditioner significantly reduces the wrinkling of some envelopes.

Menu item	Description
Envelope Enhance Off 1 (Least) 2 3 4 5 6 (Most)	Enables or disables the envelope conditioner Notes: • The factory default setting is 5. • If noise reduction is more important than wrinkle reduction, then decrease the setting.

Substitute Size menu

Menu item	Description
Substitute Size Off Statement/A5 Letter/A4 All Listed	Substitutes a specified paper size if the requested paper size is not available Notes: • All Listed is the factory default setting. All available substitutions are allowed. • The Off setting indicates no size substitutions are allowed. • Setting a substitution lets the job print without a Change Paper message appearing.

Paper Texture menu

Menu item	Description
Plain Texture Smooth Normal Rough	Specifies the relative texture of the paper loaded in a specific tray Note: Normal is the factory default setting.
Card Stock Texture Smooth Normal Rough	Specifies the relative texture of the card stock loaded in a specific tray Notes: • Normal is the factory default setting. • Settings appear only if card stock is supported.
Transparency Texture Smooth Normal Rough	Specifies the relative texture of the transparencies loaded in a specific tray Note: Normal is the factory default setting.

Menu item	Description
Recycled Texture Smooth Normal Rough	Specifies the relative texture of the recycled paper loaded in a specific tray Note: Normal is the factory default setting.
Labels Texture Smooth Normal Rough	Specifies the relative texture of the labels loaded in a specific tray Note: Normal is the factory default setting.
Vinyl Labels Texture Smooth Normal Rough	Specifies the relative texture of the vinyl labels loaded in a specific tray Note: Normal is the factory default setting.
Bond Texture Smooth Normal Rough	Specifies the relative texture of the paper loaded in a specific tray Note: Rough is the factory default setting.
Envelope Texture Smooth Normal Rough	Specifies the relative texture of the envelopes loaded in a specific tray Note: Normal is the factory default setting.
Rough Envelope Texture Smooth Normal Rough	Specifies the relative texture of the rough envelopes loaded in a specific tray Note: Rough is the factory default setting.
Letterhead Texture Smooth Normal Rough	Specifies the relative texture of the paper loaded in a specific tray Note: Normal is the factory default setting.
Preprinted Texture Smooth Normal Rough	Specifies the relative texture of the paper loaded in a specific tray Note: Normal is the factory default setting.
Colored Texture Smooth Normal Rough	Specifies the relative texture of the paper loaded in a specific tray Note: Normal is the factory default setting.
Light Texture Smooth Normal Rough	Specifies the relative texture of the paper loaded in a specific tray Note: Normal is the factory default setting.

Menu item	Description
Heavy Texture Smooth Normal Rough	Specifies the relative texture of the paper loaded in a specific tray Note: Normal is the factory default setting.
Rough Texture Smooth Normal Rough	Specifies the relative texture of the paper loaded in a specific tray Note: Rough is the factory default setting.
Custom <x> Texture Smooth Normal Rough	Specifies the relative texture of the custom paper loaded in a specific tray Note: Normal is the factory default setting.

Paper Weight menu

Menu item	Description
Plain Weight Light Normal Heavy	Specifies the relative weight of the paper loaded in a specific tray Note: Normal is the factory default setting.
Card Stock Weight Light Normal Heavy	Specifies the relative weight of the card stock loaded in a specific tray Note: Normal is the factory default setting.
Transparency Weight Light Normal Heavy	Specifies the relative weight of the paper loaded in a specific tray Note: Normal is the factory default setting.
Recycled Weight Light Normal Heavy	Specifies the relative weight of the recycled paper loaded in a specific tray Note: Normal is the factory default setting.
Labels Weight Light Normal Heavy	Specifies the relative weight of the labels loaded in a specific tray Note: Normal is the factory default setting.
Vinyl Labels Weight Light Normal Heavy	Specifies the relative weight of the vinyl labels loaded in a specific tray Note: Normal is the factory default setting.

Menu item	Description
Bond Weight Light Normal Heavy	Specifies the relative weight of the paper loaded in a specific tray Note: Normal is the factory default setting.
Envelope Weight Light Normal Heavy	Specifies the relative weight of the envelopes loaded in a specific tray Note: Normal is the factory default setting.
Rough Envelope Weight Light Normal Heavy	Specifies the relative weight of the rough envelopes loaded in a specific tray Note: Normal is the factory default setting.
Letterhead Weight Light Normal Heavy	Specifies the relative weight of the paper loaded in a specific tray Note: Normal is the factory default setting.
Preprinted Weight Light Normal Heavy	Specifies the relative weight of the paper loaded in a specific tray Note: Normal is the factory default setting.
Colored Weight Light Normal Heavy	Specifies the relative weight of the paper loaded in a specific tray Note: Normal is the factory default setting.
Light Weight Light	Specifies the relative weight of the paper loaded in a specific tray
Heavy Weight Heavy	Specifies the relative weight of the paper loaded in a specific tray
Rough Weight Light Normal Heavy	Specifies the relative weight of the paper loaded in a specific tray Note: Normal is the factory default setting.
Custom <x> Light Normal Heavy	Specifies the relative weight of the custom paper type loaded in a specific tray Notes: • Normal is the factory default setting. • Settings appear only if the custom type is supported.

Paper Loading menu

Menu item	Description
Card Stock Loading Duplex Off	Determines whether 2-sided printing occurs for all jobs that specify Card Stock as the paper type Note: Off is the factory default setting.
Recycled Loading Duplex Off	Determines whether 2-sided printing occurs for all jobs that specify Recycled as the paper type Note: Off is the factory default setting.
Labels Loading Duplex Off	Determines whether 2-sided printing occurs for all jobs that specify Labels as the paper type Note: Off is the factory default setting.
Vinyl Labels Loading Duplex Off	Determines whether 2-sided printing occurs for all jobs that specify Vinyl Labels as the paper type Note: Off is the factory default setting.
Bond Loading Duplex Off	Determines whether 2-sided printing occurs for all jobs that specify Bond as the paper type Note: Off is the factory default setting.
Letterhead Loading Duplex Off	Determines whether 2-sided printing occurs for all jobs that specify Letterhead as the paper type Note: Off is the factory default setting.
Preprinted Loading Duplex Off	Determines whether 2-sided printing occurs for all jobs that specify Preprinted as the paper type Note: Off is the factory default setting.
Colored Loading Duplex Off	Determines whether 2-sided printing occurs for all jobs that specify Colored as the paper type Note: Off is the factory default setting.
Light Loading Duplex Off	Determines whether 2-sided printing occurs for all jobs that specify Light as the paper type Note: Off is the factory default setting.
Heavy Loading Duplex Off	Determines whether 2-sided printing occurs for all jobs that specify Heavy as the paper type Note: Off is the factory default setting.
Rough Loading Duplex Off	Determines whether 2-sided printing occurs for all jobs that specify Rough as the paper type Note: Off is the factory default setting.
Notes: - Duplex sets the printer default to 2-sided printing for every print job unless 1-sided printing is selected from Print Properties in Windows or the Print dialog in Macintosh. - If Duplex is selected, all print jobs are sent through the duplex unit, including 1-sided jobs.	

Menu item	Description
Custom <x> Loading Duplex Off	Determines whether 2-sided printing occurs for all jobs that specify Custom <x> as the paper type Notes: - Off is the factory default setting. - Custom <x> Loading is available only if the custom type is supported.
Notes: - Duplex sets the printer default to 2-sided printing for every print job unless 1-sided printing is selected from Print Properties in Windows or the Print dialog in Macintosh. - If Duplex is selected, all print jobs are sent through the duplex unit, including 1-sided jobs.	

Custom Types menu

Menu item	Description
Custom Type <x> Paper Card Stock Transparency Labels Vinyl Labels Envelope	Associates a paper or specialty media type with a factory default Custom Type <x> name or a user-defined Custom Name created from the Embedded Web Server or MarkVision Professional Notes: - Paper is the factory default setting. - The custom media type must be supported by the selected tray or multipurpose feeder in order to print from that source.
Recycled Paper Card Stock Transparency Labels Vinyl Labels Envelope	Specifies a paper type when the Recycled setting is selected in other menus Notes: - Paper is the factory default setting. - The custom media type must be supported by the selected tray or multipurpose feeder in order to print from that source.

Custom Names menu

Menu item	Definition
Custom Name <x> <none>	Specify a custom name for a paper type. This name replaces a Custom Type <x> name in the printer menus.

Custom Scan Sizes menu

Menu item	Description
Custom Scan Size <x> Scan Size Name Width 3–14.17 inches (76–360 mm) Height 3–14.17 inches (76–360 mm) Orientation Landscape Portrait 2 scans per side Off On ADF Pick Roller Force User Default 30% 40% 50% 60% 70% 80%	Specifies a custom scan size name and options. This name replaces a Custom Scan Size <x> name in the printer menus. Notes: • 8.5 Inches is the US factory default setting for Width. 216 millimeters is the international factory default setting for Width. • 14 Inches is the US factory default setting for Height. 356 millimeters is the international factory default setting for Height. • Landscape is the factory default setting for Orientation. • Off is the factory default setting for 2 scans per side. • User Default is the factory default setting for ADF Pick Roller Force.

Custom Bin Names menu

Menu Item	Description
Standard Bin	Specifies a custom name for the Standard Bin
Bin 1	Specifies a custom name for Bin 1

Universal Setup menu

These menu items are used to specify the height, width, and feed direction of the Universal Paper Size. The Universal Paper Size is a user-defined paper size setting. It is listed with the other paper size settings and includes similar options, such as support for duplex printing and printing multiple pages on one sheet.

Menu item	Description
Units of Measure Inches Millimeters	Identifies the units of measure Notes: • Inches is the US factory default setting. • Millimeters is the international factory default setting.

Menu item	Description
Portrait Width 3–14 inches 76–360 mm	Sets the portrait width Notes: • If the width exceeds the maximum, the printer uses the maximum width allowed. • 8.5 inches is the US factory default setting. Inches can be increased in 0.01-inch increments. • 216 mm is the international factory default setting. Millimeters can be increased in 1-mm increments.
Portrait Height 3–14 inches 76–360 mm	Sets the portrait height Notes: • If the height exceeds the maximum, the printer uses the maximum height allowed. • 14 inches is the US factory default setting. Inches can be increased in 0.01-inch increments. • 356 mm is the international factory default setting. Millimeters can be increased in 1-mm increments.
Feed Direction Short Edge Long Edge	Specifies the feed direction if the paper can be loaded in either direction Notes: • Short Edge is the factory default setting. • Long Edge appears only if the longest edge is shorter than the maximum width supported in the tray.

Bin Setup menu

Menu Item	Description
Output Bin Standard Bin Bin <x>	Identifies installed output bins Note: Standard Bin is the factory default setting.

Menu Item	Description
Configure Bins Mailbox Link Mail Overflow Link Optional Type Assignment	Specifies configuration options for output bins Notes: • Mailbox is the factory default setting. • The Mailbox setting treats each bin as a separate mailbox. • The Link setting links together all available output bins. • The Mail Overflow setting treats each bin as a separate mailbox until a bin becomes full, and then the printer automatically diverts sheets to an overflow bin. • The Link Optional setting links together all available output bins except the standard bin and only appears when at least two optional bins are installed. • The Type Assignment setting assigns each paper type to an output bin.
Assign Type/Bin Plain Paper Bin Card Stock Bin Transparency Bin Recycled Bin Labels Bin Vinyl Labels Bin Bond Bin Envelope Bin Rough Envelope Bin Letterhead Bin Preprinted Bin Colored Bin Light Bin Heavy Bin Rough Bin Custom <x> Bin	Selects an output bin for each supported paper type Available selections for each type are: Disabled Standard Bin Bin <x> Note: Standard Bin is the factory default setting.

Reports menu

Note: When you select a menu item from the Reports menu, the indicated report prints.

Menu item	Description
Menu Settings Page	Prints a report containing information about paper loaded into trays, installed memory, the total page count, alarms, timeouts, the control panel language, the TCP/IP address, the status of supplies, the status of the network connection, and other information
Device Statistics	Prints a report containing printer statistics such as supply information and details about printed pages

Menu item	Description
Network Setup Page	Prints a report containing information about the network printer settings, such as the TCP/IP address information Note: This menu item appears only for network printers or printers connected to print servers.
Network <x> Setup Page	Prints a report containing information about the network printer settings, such as the TCP/IP address information Notes: • This menu item is available when more than one network option is installed. • This menu item appears only for network printers or printers connected to print servers.
Wireless Setup Page	Prints a report containing information about the wireless network printer settings, such as the TCP/IP address information Notes: • This menu item is available when a wireless card is installed and Lexmark Document Solutions Suite is enabled. • This menu item appears only for network printers or printers connected to print servers.
Shortcut List	Prints a report containing information about configured shortcuts
Fax Job Log	Prints a report containing information about the last 200 completed faxes
Fax Call Log	Prints a report containing information about the last 100 attempted, received, and blocked calls
Copy Shortcuts	Prints a report containing information about copy shortcuts
E-mail Shortcuts	Prints a report containing information about e-mail shortcuts
Fax Shortcuts	Prints a report containing information about fax shortcuts
FTP Shortcuts	Prints a report containing information about FTP shortcuts
Profiles List	Prints a list of profiles stored in the printer
NetWare Setup Page	Prints a report containing NetWare-specific information about the network settings Note: This menu item appears only for printers with an internal print server installed.
Print Fonts	Prints a report of all the fonts available for the printer language currently set in the printer
Print Directory	Prints a list of all the resources stored on an optional flash memory card or printer hard disk Notes: • Job Buffer Size must be set to 100%. • The optional flash memory or printer hard disk must be installed correctly and working properly.

Menu item	Description
Asset Report	Prints a report containing asset information including the printer serial number and model name. The report contains text and UPC barcodes that can be scanned into an asset database.

Network/Ports menu

Active NIC menu

Menu item	Description
Active NIC Auto <list of available network cards>	Notes: • Auto is the factory default setting. • This menu item appears only if an optional network card is installed.

Standard Network or Network <x> menus

Note: Only active ports appear in this menu; all inactive ports are omitted.

Menu item	Description
PCL SmartSwitch On Off	Sets the printer to automatically switch to PCL emulation when a print job requires it, regardless of the default printer language Notes: • On is the factory default setting. • When the Off setting is used, the printer does not examine incoming data. • When the Off setting is used, the printer uses PostScript emulation if PS SmartSwitch is set to On. It uses the default printer language specified in the Setup menu if PS SmartSwitch is set to Off.
PS SmartSwitch On Off	Sets the printer to automatically switch to PS emulation when a print job requires it, regardless of the default printer language Notes: • On is the factory default setting. • When the Off setting is used, the printer does not examine incoming data. • When the Off setting is used, the printer uses PCL emulation if PCL SmartSwitch is set to On. It uses the default printer language specified in the Setup menu if PCL SmartSwitch is set to Off.
NPA Mode Off Auto	Sets the printer to perform the special processing required for bidirectional communication following the conventions defined by the NPA protocol Notes: • Auto is the factory default setting. • Changing this setting from the printer control panel and then exiting the menus causes the printer to restart. The menu selection is updated.

Menu item	Description
Network Buffer Auto 3K to <maximum size allowed>	Sets the size of the network input buffer Notes: • Auto is the factory default setting. • The value can be changed in 1-K increments. • The maximum size allowed 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 increase the maximum size range for the Network Buffer, disable or reduce the size of the parallel, serial, and USB buffers. • Changing this setting from the printer control panel and then exiting the menus causes the printer to restart. The menu selection is updated.
Job Buffering Off On Auto	Temporarily stores jobs on the printer hard disk before printing. This menu only appears if a formatted disk is installed. Notes: • Off is the factory default setting. • The On value buffers jobs on the printer hard disk. This menu selection appears only when a formatted disk is installed and is not defective. • The Auto setting buffers print jobs only if the printer is busy processing data from another input port. • Changing this setting from the printer control panel and then exiting the menus causes the printer to restart. The menu selection is updated.
Mac Binary PS On Off Auto	Sets the printer to process Macintosh binary PostScript print jobs Notes: • Auto is the factory default setting. • The Off setting filters print jobs using the standard protocol. • The On setting processes raw binary PostScript print jobs.
Std Network Setup Reports or Network Reports Network Card TCP/IP IPv6 AppleTalk NetWare LexLink Net <x> Setup Reports or Network Reports Network Card TCP/IP IPv6 Wireless AppleTalk NetWare LexLink	For descriptions and settings of the network setup menus, see the following: • “Network Reports menu” on page 168 • “Network Card menu” on page 169 • “TCP/IP menu” on page 169 • “IPv6 menu” on page 170 • “Wireless menu” on page 171 • “AppleTalk menu” on page 171 • “NetWare menu” on page 172 • “LexLink menu” on page 173 Note: The Wireless menu appears only when the printer is connected to a wireless network.

SMTP Setup menu

Use the following menu to configure the SMTP server.

Menu item	Description
Primary SMTP Gateway Primary SMTP Gateway Port Secondary SMTP Gateway Secondary SMTP Gateway Port	Specifies SMTP server port information Note: 25 is the default SMTP gateway port.
SMTP Timeout 5–30	Specifies the amount of time in seconds before the server stops trying to send the e-mail Note: 30 seconds is the factory default setting.
Reply Address Use SSL Disabled Negotiate Required	Specifies server information. This is a required item. Notes: • The message box has a limitation of 512 characters. • Disabled is the factory default setting for Use SSL.
SMTP Server Authentication No authentication required Login / Plain CRAM-MD5 Digest-MD5 NTLM Kerberos 5	Specifies the type of user authentication required for scan to e-mail privileges Note: “No authentication required” is the factory default setting.
Device-Initiated E-mail None Use Device SMTP Credentials User-Initiated E-mail None Use Device SMTP Credentials Use Session User ID and Password Use Session E-mail address and Password Prompt User Device Userid Device password Kerberos 5 Realm NTLM Domain	Specifies server information Notes: • The message boxes have a limitation of 512 characters. • None is the factory default setting for Device-Initiated E-mail and User-Initiated E-mail.

Network Reports menu

This menu is available from the Network/Ports menu:

Network/Ports → Standard Network or Network <x> → Std Network Setup or Net <x> Setup → Reports or Network Reports

Menu item	Description
Print Setup Page Print NetWare Setup Page	Prints a report containing information about the current network setup Notes: • The Setup Page contains information about the network printer settings, such as the TCP/IP address. • The NetWare Setup Page menu item appears only on models that support NetWare and shows information about NetWare settings.

Network Card menu

This menu is available from the Network/Ports menu:

Network/Ports → Standard Network or Network <x> → Std Network Setup or Net <x> Setup → Network Card

Menu item	Description
View Card Status Connected Disconnected	Lets you view the connection status of the Network Card
View Card Speed	Lets you view the speed of a currently active network card
Network Address UAA LAA	Lets you view the network addresses
Job Timeout 0-225 seconds	Sets the amount of time in seconds that a network print job can take before it is canceled Notes: • 90 seconds is the factory default setting. • A setting value of 0 disables the timeout. • If a value of 1–9 is selected, then the setting is saved as 10.
Banner Page Off On	Allows the printer to print a banner page Note: Off is the factory default setting.

TCP/IP menu

Use the following menu items to view or set the TCP/IP information.

Note: This menu is available only for network models or printers attached to print servers.

This menu is available from the Network/Ports menu:

Network/Ports → Standard Network or Network <x> → Std Network Setup or Net <x> Setup → TCP/IP

Menu item	Description
Activate On Off	Activates TCP/IP Note: On is the factory default setting.
View Hostname	Lets you view the current TCP/IP hostname Note: This can be changed only from the Embedded Web Server.
IP Address	Lets you view or change the current TCP/IP Address Note: Manually setting the IP address sets the Enable DHCP and Enable Auto IP settings to Off. It also sets Enable BOOTP and Enable RARP to Off on systems that support BOOTP and RARP.
Netmask	Lets you view or change the current TCP/IP Netmask
Gateway	Lets you view or change the current TCP/IP Gateway
Enable DHCP On Off	Specifies the DHCP address and parameter assignment setting
Enable RARP On Off	Specifies the RARP address assignment setting Note: On is the factory default setting.
Enable BOOTP On Off	Specifies the BOOTP address assignment setting Note: On is the factory default setting.
AutoIP Yes No	Specifies the Zero Configuration Networking setting Note: Yes is the factory default setting.
Enable FTP/TFTP Yes No	Enables the built-in FTP server, which allows you to send files to the printer using the File Transfer Protocol. Note: Yes is the factory default setting.
Enable HTTP Server Yes No	Enables the built-in web server (Embedded Web Server). When enabled, the printer can be monitored and managed remotely using a web browser. Note: Yes is the factory default setting.
WINS Server Address	Lets you view or change the current WINS Server Address
DNS Server Address	Lets you view or change the current DNS Server Address

IPv6 menu

Use the following menu items to view or set the Internet Protocol version 6 (IPv6) information.

Note: This menu is available only for network models or printers attached to print servers.

This menu is available from the Network/Ports menu:

Network/Ports → Standard Network or Network <x> → Std Network Setup or Net <x> Setup → IPv6

Menu item	Description
Enable IPv6 On Off	Enables IPv6 in the printer Note: On is the factory default setting.
Auto Configuration On Off	Specifies whether the network adapter accepts the automatic IPv6 address configuration entries provided by a router Note: On is the factory default setting.
View Hostname View Address View Router Address	Lets you view the current setting Note: These settings can be changed only from the Embedded Web Server.
Enable DHCPv6 On Off	Enables DHCPv6 in the printer Note: On is the factory default setting.

Wireless menu

Use the following menu items to view or configure the wireless internal print server settings.

Note: This menu is available only for models connected to a wireless network.

This menu is available from the Network/Ports menu:

Network/Ports → Network <x> → Net <x> Setup → Wireless

Menu item	Description
Network Mode Infrastructure Ad hoc	Specifies the network mode Notes: - Infrastructure mode lets the printer access a network using an access point. - Ad hoc is the factory default setting. Ad hoc mode configures the printer for wireless networking directly between it and a computer.
Compatibility 802.11n 802.11b/g 802.11b/g/n	Specifies the wireless standard for the wireless network
Choose Network <list of available networks>	Lets you select an available network for the printer to use
View Signal Quality	Lets you view the quality of the wireless connection
View Security Mode	Lets you view the encryption method for the wireless connection. "Disabled" indicates that the wireless network is not encrypted.

AppleTalk menu

This menu is available from the Network/Ports menu:

Network/Ports → Standard Network or Network <x> → Std Network Setup or Net <x> Setup → AppleTalk

Menu item	Description
Activate On Off	Activates AppleTalk support Note: On is the factory default setting.
View Name	Shows the assigned AppleTalk name Note: The name can be changed only from the Embedded Web Server.
View Address	Shows the assigned AppleTalk address Note: The address can be changed only from the Embedded Web Server.
Set Zone <list of zones available on the network>	Provides a list of AppleTalk zones available on the network Note: The default setting is the default zone for the network. If no default zone exists, the zone marked with an * is the default setting.

NetWare menu

This menu is available from the Network/Ports menu:

Network/Ports → Standard Network or Network <x> → Std Network Setup or Net <x> Setup → NetWare

Menu item	Description
Activate Yes No	Activates NetWare support Note: No is the factory default setting.
View Login Name	Lets you view the assigned NetWare login name Note: This can be changed only from the Embedded Web Server.
Print Mode	Lets you view the assigned NetWare print mode Note: This can be changed only from the Embedded Web Server.
Network Number	Lets you view the assigned NetWare network number Note: This can be changed only from the Embedded Web Server.
Select SAP Frames Ethernet 802.2 Ethernet 802.3 Ethernet Type II Ethernet SNAP	Enables the Ethernet frame type setting Note: On is the factory default setting for all menu items.
Packet Burst Yes No	Reduces network traffic by allowing the transfer and acknowledgement of multiple data packets to and from the NetWare server Note: Yes is the factory default setting.
NSQ/GSQ Mode Yes No	Specifies the NSQ/GSQ Mode setting Note: Yes is the factory default setting.

LexLink menu

This menu is available from the Network/Ports menu:

Network/Ports → Standard Network or Network <x> → Std Network Setup or Net <x> Setup → LexLink menu

Menu item	Description
Activate On Off	Activates LexLink support Note: Off is the factory default setting.
View Nickname	Lets you view the assigned LexLink nickname Note: The LexLink nickname can be changed only from the Embedded Web Server.

Standard USB menu

Menu item	Description
PCL SmartSwitch On Off	Sets the printer to automatically switch to PCL emulation when a print job received through a USB port requires it, regardless of the default printer language Notes: • On is the factory default setting. • When the Off setting is used, the printer does not examine incoming data. • When the Off setting is used, the printer uses PostScript emulation if the PS SmartSwitch setting is On. It uses the default printer language specified in the Setup menu if the PS SmartSwitch setting is Off.
PS SmartSwitch On Off	Sets the printer to automatically switch to PS emulation when a print job received through a USB port requires it, regardless of the default printer language Notes: • On is the factory default setting. • When the Off setting is used, the printer does not examine incoming data. • When the Off setting is used, the printer uses PCL emulation if the PCL SmartSwitch setting is On. It uses the default printer language specified in the Setup menu if the PCL SmartSwitch setting is Off.
NPA Mode On Off Auto	Sets the printer to perform the special processing required for bidirectional communication following the conventions defined by the NPA protocol Notes: • Auto is the factory default setting. • Changing this setting from the printer control panel and then exiting the menus causes the printer to restart. The menu selection is updated.

Menu item	Description
USB Buffer Disabled Auto 3K to <maximum size allowed>	Sets the size of the USB input buffer Notes: • Auto is the factory default setting. • The Disabled setting turns off job buffering. Any jobs already buffered on the disk are printed before normal processing is resumed. • The USB buffer size value can be changed in 1-K increments. • The maximum size allowed depends on the amount of memory in the printer, the size of the other link buffers, and whether the Resource Save setting is On or Off. • To increase the maximum size range for the USB Buffer, disable or reduce the size of the parallel, serial, and network buffers. • Changing this setting from the printer control panel and then exiting the menus causes the printer to restart. The menu selection is updated.
Job Buffering Off On Auto	Temporarily stores jobs on the printer hard disk before printing Notes: • Off is the factory default setting. • The On setting buffers jobs on the printer hard disk. • The Auto setting buffers print jobs only if the printer is busy processing data from another input port. • Changing this setting from the printer control panel and then exiting the menus causes the printer to restart. The menu selection is updated.
Mac Binary PS On Off Auto	Sets the printer to process Macintosh binary PostScript print jobs Notes: • Auto is the factory default setting. • The Off setting filters print jobs using the standard protocol. • The On setting processes raw binary PostScript print jobs.
USB With ENA ENA Address ENA Netmask ENA Gateway	Sets the network address, netmask, or gateway information for an external print server that is attached to the printer using a USB cable. Note: This menu item is available only if the printer is attached to an external print server through the USB port.

Parallel <x> menu

This menu appears only if an optional parallel card is installed.

Menu item	Description
PCL SmartSwitch On Off	Sets the printer to automatically switch to PCL emulation when a print job received through a parallel port requires it, regardless of the default printer language Notes: • On is the factory default setting. • When the Off setting is used, the printer does not examine incoming data. • When the Off setting is used, the printer uses PostScript emulation if PS SmartSwitch is set to On. It uses the default printer language specified in the Setup menu if PS SmartSwitch is set to Off.
PS SmartSwitch On Off	Sets the printer to automatically switch to PS emulation when a print job received through a parallel port requires it, regardless of the default printer language Notes: • On is the factory default setting. • When the Off setting is used, the printer does not examine incoming data. • When the Off setting is used, the printer uses PCL emulation if PCL SmartSwitch is set to On. It uses the default printer language specified in the Setup menu if PCL SmartSwitch is set to Off.
NPA Mode On Off Auto	Sets the printer to perform the special processing required for bidirectional communication following the conventions defined by the NPA protocol Notes: • Auto is the factory default setting. • Changing this setting from the printer control panel and then exiting the menus causes the printer to restart. The menu selection is updated.
Parallel Buffer Disabled Auto 3K to <max size allowed>	Sets the size of the parallel input buffer Notes: • Auto is the factory default setting. • The Disabled setting turns off job buffering. Any jobs already buffered on the disk are printed before normal processing is resumed. • The parallel buffer size setting can be changed in 1K increments. • The maximum size allowed 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 increase the maximum size range for the Parallel Buffer, disable or reduce the size of the USB, serial, and network buffers. • Changing this setting from the printer control panel and then exiting the menus causes the printer to restart. The menu selection is updated.

Menu item	Description
Job Buffering Off On Auto	Temporarily stores jobs on the printer hard disk before printing Notes: - Off is the factory default setting. - The Off setting does not buffer print jobs to the printer hard disk. - The On setting buffers jobs on the printer hard disk. - The Auto setting buffers print jobs only if the printer is busy processing data from another input port. - Changing this setting from the printer control panel and then exiting the menus causes the printer to restart. The menu selection is updated.
Advanced Status On Off	Enables bidirectional communication through the parallel port Notes: - On is the factory default setting. - The Off setting disables parallel port negotiation.
Protocol Standard Fastbytes	Specifies the parallel port protocol Notes: - Fastbytes is the factory default setting. It provides compatibility with most existing parallel ports and is the recommended setting. - The Standard setting tries to resolve parallel port communication problems.
Honor Init On Off	Determines whether or not the printer honors printer hardware initialization requests from the computer Notes: - Off is the factory default setting. - The computer requests initialization by activating the Init signal from the parallel port. Many personal computers activate the Init signal each time the computer is turned on.
Parallel Mode 2 On Off	Determines whether the parallel port data is sampled on the leading or trailing edge of strobe Notes: - On is the factory default setting. - This menu appears only if a standard or optional parallel port is available.
Mac Binary PS On Off Auto	Sets the printer to process Macintosh binary PostScript print jobs Notes: - Auto is the factory default setting. - The Off setting filters print jobs using the standard protocol. - The On setting processes raw binary PostScript print jobs.
Parallel With ENA ENA Address ENA Netmask ENA Gateway	Sets the network address, netmask, or gateway information for an external print server that is attached to the printer using a parallel cable. Note: This menu item is available only if the printer is attached to an external print server through a parallel port.

Serial <x> menu

This menu appears only if an optional serial card is installed.

Menu item	Description
PCL SmartSwitch On Off	Sets the printer to automatically switch to PCL emulation when a print job received through a serial port requires it, regardless of the default printer language Notes: - On is the factory default setting. - When the Off setting is used, the printer does not examine incoming data. - When the Off setting is used, the printer uses PostScript emulation if PS SmartSwitch is set to On. It uses the default printer language specified in the Setup menu if PS SmartSwitch is set to Off.
PS SmartSwitch On Off	Sets the printer to automatically switch to PS emulation when a print job received through a serial port requires it, regardless of the default printer language Notes: - On is the factory default setting. - When the Off setting is used, the printer does not examine incoming data. - When the Off setting is used, the printer uses PCL emulation if PCL SmartSwitch is set to On. It uses the default printer language specified in the Setup menu if PCL SmartSwitch is set to Off.
NPA Mode On Off Auto	Sets the printer to perform the special processing required for bidirectional communication following the conventions defined by the NPA protocol Notes: - Auto is the factory default setting. - When the On setting is used, the printer performs NPA processing. If the data is not in NPA format, it is rejected as bad data. - When the Off setting is used, the printer does not perform NPA processing. - When the Auto setting is used, the printer examines data, determines the format, and then processes it appropriately. - Changing this setting from the printer control panel and then exiting the menus causes the printer to restart. The menu selection is updated.
Serial Buffer Disabled Auto 3K to <maximum size allowed>	Sets the size of the serial input buffer Notes: - Auto is the factory default setting. - The Disabled setting turns off job buffering. Any jobs already buffered on the disk are printed before normal processing is resumed. - The serial buffer size setting can be changed in 1-K increments. - The maximum size allowed 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 increase the maximum size range for the Serial Buffer, disable or reduce the size of the parallel, USB, and network buffers. - Changing this setting from the printer control panel and then exiting the menus causes the printer to restart. The menu selection is updated.

Menu item	Description
Job Buffering Off On Auto	Temporarily stores jobs on the printer hard disk before printing Notes: - Off is the factory default setting. - The Off setting does not buffer print jobs to the hard disk. - The On setting buffers jobs on the printer hard disk. - The Auto setting buffers print jobs only if the printer is busy processing data from another input port. - Changing this setting from the printer control panel and then exiting the menus causes the printer to restart. The menu selection is updated.
Serial Protocol DTR DTR/DSR XON/XOFF XON/XOFF/DTR XON/XOFF/DTRDSR	Selects the hardware and software handshaking settings for the serial port Notes: - DTR is the factory default setting. - DTR/DSR is a hardware handshaking setting. - XON/XOFF is a software handshaking setting. - XON/XOFF/DTR and XON/XOFF/DTR/DSR are combined hardware and software handshaking settings.
Robust XON On Off	Determines whether or not the printer communicates availability to the computer Notes: - Off is the factory default setting. - This menu item applies only to the serial port if Serial Protocol is set to XON/XOFF.
Baud 1200 2400 4800 9600 19200 38400 57600 115200 138200 172800 230400 345600	Specifies the rate at which data can be received through the serial port Notes: 9600 is the factory default setting. 138200, 172800, 230400, and 345600 baud rates are displayed only in the Standard Serial menu. These settings do not appear in the Serial Option or Serial Option 2 menus.
Data Bits 7 8	Specifies the number of data bits that are sent in each transmission frame Note: 8 is the factory default setting.

Menu item	Description
Parity Even Odd None Ignore	Sets the parity for serial input and output data frames Note: None is the factory default setting.
Honor DSR On Off	Determines whether the printer uses the DSR Signal. DSR is a handshaking signal used by most serial cables. Notes: - Off is the factory default setting. - The serial port uses DSR to distinguish data sent by the computer from data created by electrical noise in the serial cable. The electrical noise can cause stray characters to print. Select On to prevent stray characters from printing. - This menu item appears only if Serial RS-232/RS-422 is set to RS 232.

Security menu

Miscellaneous menu

Menu item	Description
Panel Logins Login failures Failure time frame Lockout time Login timeout	Limits the number and time frames of failed login attempts from the printer control panel before <i>all</i> users are locked out Notes: “Login failures” specifies the number of failed login attempts before users are locked out. Settings range from 1–50. 3 attempts is the factory default setting. “Failure time frame” specifies the time frame during which failed login attempts can be made before users are locked out. Settings range from 1–60 minutes. 5 minutes is the factory default setting. “Lockout time” specifies how long users are locked out after exceeding the login failures limit. Settings range from 0–60 minutes. 5 minutes is the factory default setting. 0 indicates the printer does not impose a lockout time. “Login timeout” specifies how long the printer remains idle on the Home screen before automatically logging the user off. Settings range from 1–900 seconds. 300 seconds is the factory default setting.

Menu item	Description
Remote Logins Login failures Failure time frame Lockout time Login timeout	Limits the number and time frames of failed login attempts from a computer before <i>all</i> remote users are locked out Notes: • “Login failures” specifies the number of failed login attempts before users are locked out. Settings range from 1–50. 3 attempts is the factory default setting. • “Failure time frame” specifies the time frame during which failed login attempts can be made before users are locked out. Settings range from 1–60 minutes. 5 minutes is the factory default setting. • “Lockout time” specifies how long a user is locked out after exceeding the login failures limit. Settings range from 0–60 minutes. 5 minutes is the factory default setting. 0 indicates the printer does not impose a lockout time. • “Login timeout” specifies how long the remote interface remains idle before automatically logging the user off. Settings range from 1–900 seconds. 300 seconds is the factory default setting.

Confidential Print menu

Menu item	Description
Max Invalid PIN Off 2–10	Limits the number of times an invalid PIN can be entered Notes: • Off is the default setting. • This menu item appears only if a printer hard disk is installed. • Once a limit is reached, the jobs for that user name and that PIN are deleted.
Job Expiration Off 1 hour 4 hours 24 hours 1 week	Limits the amount of time a confidential job stays in the printer before it is deleted Notes: • Off is the default setting. • If the Job Expiration setting is changed while confidential jobs reside on the printer RAM or printer hard disk, the expiration time for those print jobs does not change to the new default value. • If the printer is turned off, all confidential jobs held in printer RAM are deleted.

Disk Wiping menu

Menu item	Description
Automatic Wiping Off On	Disk Wiping erases <i>only</i> print job data that <i>is not</i> currently in use by the file system from the printer hard disk. All permanent data on the printer hard disk is preserved, such as downloaded fonts, macros, and held jobs. Automatic Wiping marks all disk space used by a previous job and does not permit the file system to reuse this space until it has been sanitized. Only Automatic Wiping enables users to activate disk wiping without having to take the printer offline for an extended amount of time. Notes: • This menu item appears only if a formatted, non-defective printer hard disk is installed. • Off is the default setting. • Due to the large amount of resources required for Automatic Wiping, activating this option may decrease printer performance, especially if the printer requires hard disk space faster than it can be wiped and returned to service.
Manual Wiping Start now Do not start now	Disk Wiping erases <i>only</i> print job data that <i>is not</i> currently in use by the file system from the printer hard disk. All permanent data on the printer hard disk is preserved, such as downloaded fonts, macros, and held jobs. Manual Wiping overwrites all disk space that has been used to hold data from a print job that has been processed (i.e. printed). This type of wipe <i>does not</i> erase any information related to an unprocessed print job. Notes: • This menu item appears only if a formatted, non-defective printer hard disk is installed. • "Do not start now" is the default setting. • If the Disk Wiping access control is activated, then a user must successfully authenticate and have the required authorization in order to initiate the disk wipe.
Automatic Method Single pass Multiple pass	Disk Wiping erases <i>only</i> print job data that <i>is not</i> currently in use by the file system from the printer hard disk. All permanent data on the printer hard disk is preserved, such as downloaded fonts, macros, and held jobs. Notes: • This menu item appears only if a formatted, non-defective printer hard disk is installed. • Single pass is the default setting. • Highly confidential information should be wiped using the Multiple pass method <i>only</i>.

Menu item	Description
Manual Method Single pass Multiple pass	Disk Wiping erases <i>only</i> print job data that <i>is not</i> currently in use by the file system from the printer hard disk. All permanent data on the printer hard disk is preserved, such as downloaded fonts, macros, and held jobs. Both manual and scheduled wiping allow the file system to reuse marked disk space without first having to wipe it. Notes: • This menu item appears only if a formatted, non-defective printer hard disk is installed. • Single pass is the default setting. • Highly confidential information should be wiped using the Multiple Pass method <i>only</i>.
Scheduled Method Single pass Multiple pass	Disk Wiping erases <i>only</i> print job data that <i>is not</i> currently in use by the file system from the printer hard disk. All permanent data on the printer hard disk is preserved, such as downloaded fonts, macros, and held jobs. Both manual and scheduled wiping allow the file system to reuse marked disk space without first having to wipe it. Notes: • This menu item appears only if a formatted, non-defective printer hard disk is installed. • Single pass is the default setting. • Highly confidential information should be wiped using the Multiple Pass method <i>only</i>. • Scheduled wipes are initiated <i>without</i> displaying a user warning or confirmation message.

Security Audit Log menu

Menu item	Description
Export Log	Enables an authorized user to export the security log Notes: • To export the log from the printer control panel, a flash drive must be attached to the printer. • From the Embedded Web Server, the log can be downloaded to a computer.
Delete Log Delete now Do not delete	Specifies whether audit logs are deleted Note: Delete Now is the factory default setting.
Configure Log Enable Audit Enable Remote Syslog Remote Syslog Facility Severity of events to log	Specifies whether and how the audit logs are created Note: Factory default settings enable the security audit log.

Set Date/Time menu

Menu item	Description
View Date/Time	Lets you view the current date and time settings for the printer
Set Date/Time <input date/time>	Note: Date/Time is set in YYYY-MM-DD HH:MM format.
Time Zone <list of time zones>	Note: GMT is the factory default setting.
Observe DST On Off	Note: On is the factory default setting and uses the applicable Daylight Saving Time associated with the Time Zone setting.
Enable NTP On Off	Enables Network Time Protocol, which synchronizes the clocks of devices on a network Note: On is the factory default setting.

Settings menu

General Settings menu

Menu item	Description
Display Language English Francais Deutsch Italiano Espanol Dansk Norsk Nederlands Svenska Portuguese Suomi Russian Polski Magyar Turkce Cesky Simplified Chinese Traditional Chinese Korean Japanese	Sets the language of the text appearing on the display Note: All languages may not be available for all printers.

Menu item	Description
Eco-Mode Off Energy Energy/Paper Paper	Minimizes the use of energy, paper, or specialty media Notes: • Off is the factory default setting. Off resets the printer to its factory default settings. • The Energy setting minimizes the power used by the printer. Performance may be affected but not print quality. • Paper minimizes the amount of paper and specialty media needed for a print job by duplexing each page. Performance may be affected but not print quality. • Energy/Paper minimizes the use of power and of paper and specialty media.
ADF Loaded Beep Enabled Disabled	Specifies whether the ADF emits a beep when paper is loaded Note: Disabled is the factory default setting.
Quiet Mode Off On	Reduces the amount of noise produced by the printer Notes: • Off is the factory default setting. • On configures the printer to produce as little noise as possible.
Run Initial setup Yes No	Instructs the printer to run the setup wizard Notes: • Yes is the factory default setting. • After completing the setup wizard by selecting Done at the Country select screen, the default becomes No.

Menu item	Description
Keyboard Keyboard Type English Francais Francais Canadien Deutsch Italiano Espanol Dansk Norsk Nederlands Svenska Suomi Portuguese Russian Polski Swiss German Swiss French Turkce Korean Custom Key <x> Accents/Symbols Tab On Off Russian/Polish Tab On Off Korean Tab On Off	Specifies a language and custom key information for the printer control panel keyboard. The additional tabs enable access to accent marks and symbols from the printer control panel keyboard.
Paper Sizes U.S. Metric	Specifies the printer factory default measurements. The default is determined by the country/region selection in the initial setup wizard.
Scan to PC Port Range <port range>	Specifies a valid port range for printers behind a port blocking firewall. The valid ports are specified by two sets of numbers separated by a semicolon. Note: 9751:12000 is the factory default setting.

Menu item	Description
Displayed Information Left side Right side Custom Text <x> <text entry> Black Toner Display When Supply Registers Off Early Warning Low Near End of Life End of Life Type of Message to Display Default Alternate Default Message <text entry> Alternate Message <text entry>	Specifies what is displayed on the upper left and right corners of the home screen For the Left side and Right side options, choose from the following options: - None - IP Address - Hostname - Contact Name - Location - Date/Time - mDNS/DDNS Service Name - Zero Configuration Name - Cartridge Level - Custom Text <x> Notes: • IP Address is the factory default setting for Left side. • Date/Time is the factory default setting for Right side. • Off is the factory default setting for Display When Supply Registers. • Default is the factory default setting for Type of Message to Display.
Displayed Information (continued) Paper Jam Load Paper Service Errors	The displayed information for Paper Jam, Load Paper, and Service Errors can be customized with the following options: - Activate - Yes - No - Type of Message to Display - Default - Alternate - Default Message <text entry> - Alternate Message <text entry> Notes: • No is the factory default setting for Activate. • Default is the factory default setting for Type of Message to Display.

Menu item	Description
Home screen customization Change Language Copy Copy Shortcuts Fax Fax Shortcuts E-mail E-mail Shortcuts FTP FTP Shortcuts Search Held Jobs Held Jobs USB Drive Profiles Bookmarks Jobs by user	Additional buttons can be added to the Home screen, and default buttons can be removed. Available selections for each button are: Display Do Not Display
Date Format MM-DD-YYYY DD-MM-YYYY YYYY-MM-DD	Formats the printer date
Time Format 12 hour A.M./P.M. 24 hour clock	Formats the printer time
Screen Brightness 20–100	Specifies the brightness of the printer control panel screen
One Page Copy On Off	Sets the copies from the scanner glass to only one page at a time Note: Off is the factory default setting.

Menu item	Description
Output Lighting Standard Bin LED Normal/Standby Mode Bright Dim Off Power Saver Bright Dim Off Output Option Bin LEDs Normal/Standby Mode Bright Dim Off Power Saver Bright Dim Off	Sets the amount of light from the standard bin or an optional output bin Notes: • In Normal/Standby Mode, the factory default is Bright. • In Power Saver Mode, the factory default is Dim.
Show Bookmarks On Off	Specifies whether bookmarks are displayed from the Held Jobs area Note: On is the factory default setting. When On is selected, bookmarks appear in the Held Jobs area.
Allow Background Removal On Off	Specifies whether image background removal is allowed during copy, fax, e-mail, FTP, or scan to USB Note: On is the factory default setting. The background of the image will be removed.
Allow Custom Job Scans On Off	Lets you scan multiple jobs to one file Note: On is the factory default setting. If On is selected, the Allow Custom Job Scans setting can be enabled for specific jobs.
Scanner Jam Recovery Job level Page level	Specifies how a scanned job should be reloaded if a paper jam occurs in the ADF Notes: • If Job level is selected, the entire job must be rescanned if any pages jam. • If Page level is selected, rescan from the jammed page forward.
Web Page Refresh Rate 30–300	Specifies the number of seconds between Embedded Web Server refreshes Note: 120 seconds is the factory default setting.
Contact Name	Specifies a contact name for the printer Note: The contact name will be stored on the Embedded Web Server.

Menu item	Description
Location	Specifies the location of the printer Note: The location will be stored on the Embedded Web Server.
Alarms Alarm Control Cartridge Alarm Staple Alarm	Sets an alarm to sound when the printer requires operator intervention Available selections for each alarm type are: Off Single Continuous Notes: - Single is the factory default setting for Alarm Control. Single sounds three quick beeps. - Off is the factory default setting for Toner Alarm and Staple Alarm. Off means no alarm will sound. - Continuous repeats three beeps every 10 seconds. - Staple Alarm is available only when the finisher is installed.
Timeouts Job Hold Timeout Disabled 5–255	Sets the amount of time the printer waits for user intervention before it holds jobs that require unavailable resources and continues to print other jobs in the print queue Notes: 30 seconds is the factory default setting. - This menu item appears only when a printer hard disk is installed.
Timeouts Standby Mode Disabled 2–240	Specifies the number of minutes of inactivity before the system enters a lower power state Note: 15 minutes is the factory default setting.
Timeouts Power Saver Mode Disabled 2–240	Specifies the number of minutes of inactivity before some systems begin entering a minimum power state. Notes: 60 minutes is the factory default setting. - Power Saver does not interact with Standby Mode.
Timeouts Screen Timeout 15–300	Sets the amount of time in seconds the printer waits before returning the printer display to a Ready state Note: 30 seconds is the factory default setting.

Menu item	Description
Timeouts Print Timeout Disabled 1–255	Sets the amount of time in seconds the printer waits to receive an end-of-job message before canceling the remainder of the print job Notes: • 90 seconds is the factory default setting. • When the timer expires, any partially printed page still in the printer is printed, and then the printer checks to see if any new print jobs are waiting. • Print Timeout is available only when using PCL or PPDS emulation. This setting has no effect on PostScript emulation print jobs.
Timeouts Wait Timeout Disabled 15–65535	Sets the amount of time in seconds the printer waits for additional data before canceling a print job Notes: • 40 seconds is the factory default setting. • Wait Timeout is available only when the printer is using PostScript emulation. This setting has no effect on PCL or PPDS emulation print jobs.
Print Recovery Auto Continue Disabled 5–255	Lets the printer automatically continue printing from certain offline situations when not resolved within the specified time period Notes: • Disabled is the factory default setting. • 5–255 is a range of time in seconds.
Print Recovery Jam Recovery On Off Auto	Specifies whether the printer reprints jammed pages Notes: • Auto is the factory default setting. The printer reprints jammed pages unless the memory required to hold the pages is needed for other printer tasks. • On sets the printer to always reprint jammed pages. • Off sets the printer to never reprint jammed pages.
Print Recovery Page Protect On Off	Lets the printer successfully print a page that may not have printed otherwise Notes: • Off is the factory default setting. Off prints a partial page when there is not enough memory to print the whole page. • On sets the printer to process the whole page so that the entire page prints.

Menu item	Description
Factory Defaults Do Not Restore Restore Now	Returns the printer settings to the factory default settings Notes: - Do Not Restore is the factory default setting. Do Not Restore keeps the user-defined settings. - Restore returns all printer settings to the factory default settings except Network/Ports menu settings. All downloads stored in RAM are deleted. Downloads stored in flash memory or on a printer hard disk are not affected.

Copy Settings menu

Menu item	Description
Content Text/Photo Photograph Printed Image Text	Specifies the type of content contained in the copy job Notes: - Text/Photo is the factory default setting. Text/Photo is used when the original documents are a mixture of text and graphics or pictures. - Photograph tells the scanner to pay extra attention to graphics and pictures. This setting increases the time it takes to scan, but emphasizes a reproduction of the full dynamic range of tones in the original document. This increases the amount of information saved. - Printed Image is used when jobs are composed primarily of images. Printed Image converts the images to halftone. Halftoning makes a grayscale or color image printable by transforming it to a pattern of small spots with a limited number of colors. - Text emphasizes sharp, black, high-resolution text against a clean, white background.
Sides (Duplex) 1 sided to 1 sided 1 sided to 2 sided 2 sided to 1 sided 2 sided to 2 sided	Specifies whether an original document is duplex (two-sided) or simplex (one-sided), and then specifies whether the copy should be duplex or simplex Notes: 1 sided to 1 sided—The original page has printing on one side. The copied page will have printing on one side. 1 sided to 2 sided—The original page has printing on one side. The copied page will have printing on both sides. For example, if the original is six sheets, the copy is three sheets with printing on both sides. 2 sided to 1 sided—The original page has printing on both sides. The copied page will have printing on only one side. For example, if the original draft is three sheets of paper with an image on each side of each sheet, then the copy is six sheets with only one image on one side of each sheet. 2 sided to 2 sided—The original page has printing on both sides. The copy mimics the original exactly.

Menu item	Description
Paper Saver Off 2 on 1 Portrait 2 on 1 Landscape 4 on 1 Portrait 4 on 1 Landscape	Sets two or four sheets of an original document together on the same page Note: Off is the factory default setting.
Print Page Borders On Off	Specifies whether a border is printed around the edge of the page at the margins Note: On is the factory default setting.
Collate On Off	Keeps the pages of a print job stacked in sequence when making multiple copies of the job Note: On is the factory default setting.
Staple On Off	Enables stapling Note: Off is the factory default setting.
Original Size Letter Legal Executive Folio Statement Universal 4 x 6 in. 3 x 5 in. Business Card Custom Scan Size <x> A4 A5 Oficio (Mexico) A6 JIS B5 Book Original Auto Size Sense Mixed Letter/Legal	Specifies the paper size of the original document
Copy To Source Tray <x> Single Sheet Feeder Multi Sheet Feeder Auto Size Match	Specifies the paper source for copy jobs Note: Tray 1 is the factory default setting.
Transparency Separators On Off	Places a sheet of paper between transparencies Note: On is the factory default setting.

Menu item	Description
Separator Sheets None Between Copies Between Jobs Between Pages	Places a sheet of paper between pages, copies, or jobs based on the value selected Note: None is the factory default setting.
Separator Source Tray <x> Manual Feeder Envelope Feeder	Specifies a paper source
Darkness 1–9	Specifies the level of darkness for the copy job
Output Bin Standard Bin Bin <x>	Specifies which output bin receives the copy after it is printed
Number of Copies	Specifies the number of copies for the copy job
Header/Footer Top left Top left Off Date/Time Page number Bates number Custom text Print on All pages First page only All but first page Enter custom text	Specifies header/footer information for the top left of the page Notes: - Off is the factory default setting for Top left. “All pages” is the factory default setting for Print on.
Header/Footer Top middle Top middle Off Date/Time Page number Bates number Custom text Print on All pages First page only All but first page Enter custom text	Specifies header/footer information for the middle of the page Notes: - Off is the factory default setting for Top middle. “All pages” is the factory default setting for Print on.

Menu item	Description
Header/Footer Top right Top right Off Date/Time Page number Bates number Custom text Print on All pages First page only All but first page Enter custom text	Specifies header/footer information for the top right of the page Notes: • Off is the factory default setting for Top right. • “All pages” is the factory default setting for Print on.
Header/Footer Bottom left Bottom left Off Date/Time Page number Bates number Custom text Print on All pages First page only All but first page Enter custom text	Specifies header/footer information for the bottom left of the page Notes: • Off is the factory default setting for Bottom left. • “All pages” is the factory default setting for Print on.
Header/Footer Bottom middle Bottom middle Off Date/Time Page number Bates number Custom text Print on All pages First page only All but first page Enter custom text	Specifies header/footer information for the bottom middle of the page Notes: • Off is the factory default setting for Bottom middle. • “All pages” is the factory default setting for Print on.

Menu item	Description
Header/Footer Bottom right Bottom right Off Date/Time Page number Bates number Custom text Print on All pages First page only All but first page Enter custom text	Specifies header/footer information for the bottom right of the page Notes: • Off is the factory default setting for Bottom right. • “All pages” is the factory default setting for Print on.
Overlay Off Confidential Copy Draft Urgent Custom	Specifies overlay text that is printed on each page of the copy job Note: Off is the factory default setting.
Custom Overlay	Specifies custom overlay text
Allow priority copies On Off	Allows interruption of a print job to copy a page or document Note: On is the factory default setting.
Custom Job scanning On Off	Lets you copy in a single copy job a document that contains mixed paper sizes
Allow Save as Shortcut On Off	Lets you save custom copy settings as shortcuts Note: On is the factory default setting.
Background Removal -4 to +4	Adjusts the amount of background visible on a copy
Auto Center On Off	Lets you automatically center the copy on the page Note: Off is the factory default setting.

Menu item	Description
Color Dropout Color Dropout None Red Green Blue Default Red Threshold 0–255 Default Green Threshold 0–255 Default Blue Threshold 0–255	Specifies which color to drop during copies, and how much to increase or decrease the dropout Notes: • None is the factory default setting for Color Dropout. • 128 is the factory default setting for each color threshold.
Contrast 0–5 Best for content	Specifies the contrast used for the copy job Note: Best for content is the factory default setting.
Mirror Image On Off	Creates a mirror image of the original document Note: Off is the factory default setting.
Negative Image On Off	Creates a negative image of the original document Note: Off is the factory default setting.
Shadow Detail 0–4	Adjusts the amount of shadow detail visible on a copy Note: 0 is the factory default setting.
Scan edge to edge On Off	Specifies if the original document is scanned edge-to-edge prior to copying Note: Off is the factory default setting.
Sharpness 0–5	Adjusts the amount of sharpness on a copy Note: 3 is the factory default setting.
Sample Copy On Off	Creates a sample copy of the original document Note: Off is the factory default setting.

Fax Settings menu

Fax Mode (Analog Fax Setup) menu

Analog Fax Setup mode sends the fax job by way of a telephone line.

General Fax Settings

Menu item	Description
Fax Cover Page Fax Cover Page Off by default On by default Never Use Always Use Include To field On Off Include From field On Off From Include Message field On Off Message Include Logo On Off Include Footer <x> Footer <x>	Configures the fax cover page Note: Off is the factory default setting for all Fax Cover Page options.
Station Name	Specifies the name of the fax within the printer
Station Number	Specifies a number associated with the fax
Station ID Station Name Station Number	Specifies how the fax is identified
Enable Manual Fax On Off	Sets the printer to fax manually only, which requires a line splitter and a telephone hand set Notes: • Use a regular telephone to answer an incoming fax job and to dial a fax number. • Touch # 0 on the numeric keypad to go directly to the Manual Fax function.
Memory Use All receive Mostly receive Equal Mostly sent All send	Defines the allocation of non-volatile memory between sending and receiving fax jobs Notes: • “All receive” specifies that all the memory is set to receive fax jobs. • “Mostly receive” specifies that most of the memory is set to receive fax jobs. • Equal is the factory default setting. Equal splits the memory for sending and receiving fax jobs into equal amounts. • “Mostly sent” specifies that most of the memory is set to send fax jobs. • “All send” specifies that all the memory is set to send fax jobs.

Menu item	Description
Cancel Faxes Allow Don't Allow	Specifies whether the printer may cancel fax jobs Note: If Cancel Faxes is not enabled, it will not appear as an option.
Caller ID FSK DTMF	Specifies type of caller ID being used Note: FSK is the factory default setting.
Fax number masking Off From left From right	Specifies the direction from which digits are masked in an outgoing fax number Note: The number of characters masked is determined by the "Digits to mask" setting.
Digits to mask 0–58	Specifies the number of digits to mask in an outgoing fax number

Fax Send Settings

Menu item	Description
Resolution Standard Fine Super Fine Ultra Fine	Specifies quality in dots per inch (dpi). A higher resolution gives greater print quality, but it increases the fax transmission time for outgoing faxes. Note: Standard is the factory default setting.
Original Size Letter Legal Executive Folio Statement Universal 4 x 6 in. 3 x 5 in. Business Card Custom Scan Size <x> A4 A5 Oficio (Mexico) A6 JIS B5 Book Original Auto Size Sense Mixed Letter/Legal	Specifies the paper size of the document that is being scanned Note: Letter is the US factory default setting. A4 is the international factory default setting.

Menu item	Description
Sides (Duplex) Off Long edge Short edge	Specifies how the text and graphics are oriented on the page Notes: - Off is the factory default setting. - Long edge assumes binding along the long edge of the page (left edge for portrait orientation and top edge for landscape orientation). - Short edge assumes binding along the short edge of the page (top edge for portrait orientation and left edge for landscape orientation).
Content Text Text/Photo Photograph	Specifies the type of content that will be scanned to fax Notes: - Text is used when the document is mostly text. - Text/Photo is the factory default setting. Text/Photo is used when the documents are mostly text or line art. - Photograph is used when the document is a high-quality photograph or inkjet print.
Darkness 1–9	Lightens or darkens the output Note: 5 is the factory default setting.
Dial Prefix	A numeric entry field is provided to enter numbers
Dialing Prefix Rules Prefix Rule <x>	Establishes a dialing prefix rule
Automatic Redial 0–9	Specifies the number of times the printer tries to send the fax to a specified number Note: 5 is the factory default setting.
Redial Frequency 1–200	Specifies the number of minutes between redials
Behind a PABX Off On	Enables switchboard blind dialing without a dial tone
Enable ECM On Off	Enables Error Correction Mode for fax jobs
Enable Fax Scans On Off	Lets you send faxes by scanning at the printer
Driver to fax On Off	Allows driver to fax jobs to be sent by the printer
Allow Save as Shortcut On Off	Lets you save fax numbers as shortcuts in the printer

Menu item	Description
Dial Mode Tone Pulse	Specifies the dialing sound, either as a tone or a pulse.
Max Speed 2400 4800 9600 14400 33600	Specifies the maximum speed in baud at which faxes are sent
Custom Job scanning On Off	Lets you scan a document that contains mixed paper sizes into a single file
Scan Preview On Off	Specifies whether a preview will appear on the display for scan jobs
Background Removal -4 to +4	Adjusts the amount of background visible on a copy Note: 0 is the factory default setting.
Auto Center On Off	Lets you automatically center the fax on the page Note: Off is the factory default setting.
Color Dropout Color Dropout None Red Green Blue Default Red Threshold 0–255 Default Green Threshold 0–255 Default Blue Threshold 0–255	Specifies which color to drop during faxing, and how much to increase or decrease the dropout Notes: • None is the factory default setting for Color Dropout. • 128 is the factory default setting for each color threshold.
Contrast Best for content 0–5	Specifies the contrast of the output Note: “Best for content” is the factory default setting.
Mirror Image On Off	Creates a mirror image of the original document Note: Off is the factory default setting.
Negative Image On Off	Creates a negative image of the original document Note: Off is the factory default setting.

Menu item	Description
Shadow Detail 0–4	Adjusts the amount of shadow detail visible on a fax Note: 0 is the factory default setting.
Scan edge to edge On Off	Specifies if the original document is scanned edge-to-edge prior to faxing Note: Off is the factory default setting.
Sharpness 0–5	Adjusts the amount of sharpness on a fax Note: 3 is the factory default setting.
Enable Color Fax Scans On by default Never use Always use Off by default	Enables color faxing Note: “Off by default” is the factory default setting.
Auto Convert Color Faxes to Mono Faxes On Off	Converts all outgoing faxes to black and white Note: On is the factory default setting.

Fax Receive Settings

Menu item	Description
Enable Fax Receive On Off	Allows fax jobs to be received by the printer Note: On is the factory default setting.
Rings to Answer 1–25	Specifies the number of rings before answering an incoming fax job Note: 1 is the factory default setting.
Auto Reduction On Off	Scales an incoming fax job so it fits the size of the paper loaded in the designated fax source Note: On is the factory default setting.
Paper Source Auto Tray <x> Multi-Purpose Feeder	Specifies the paper source selected to supply paper for the printer to print an incoming fax
Output Bin Standard Bin Bin 1 <x>	Specifies an output bin for received faxes Note: Bin 1 is available only when the finisher is installed.
Sides (Duplex) On Off	Enables duplex printing (two-sided printing) for incoming fax jobs
Fax Footer On Off	Prints the transmission information at the bottom of each page from a received fax Note: On is the factory default setting.

Menu item	Description
Max Speed 2400 4800 9600 14400 33600	Specifies the maximum speed in baud at which faxes are received
Fax Forwarding Forward Print Print and Forward	Enables forwarding of received faxes to another recipient
Forward to Fax E-mail FTP LDSS eSF	Specifies the type of recipient to which faxes will be forwarded Note: This item is available only from the printer Embedded Web Server.
Forward to Shortcut	Lets you enter the shortcut number which matches the recipient type (Fax, E-mail, FPT, LDSS, or eSF)
Block No Name Fax On Off	Enables blocking of incoming faxes sent from devices with no station ID specified
Banned Fax List	Enables the list of banned fax numbers stored in the printer
Holding Faxes Held Fax Mode Off Always On Manual Scheduled Fax Holding Schedule	Enables fax holding all of the time or according to a set schedule Note: Off is the factory default setting.
Staple On Off	Specifies the default staple setting for the attached finisher Note: Only the settings associated with the installed finisher appear.

Fax Log Settings

Menu item	Description
Transmission Log Print log Do not print log Print only for error	Enables printing of a transmission log after each fax job
Receive Error Log Print Never Print on Error	Enables printing of a receive error log following a receive error

Menu item	Description
Auto Print Logs On Off	Enables automatic printing of fax logs Note: Logs print after every 200 jobs.
Log Paper Source Tray <x> Manual Feeder	Selects the source of the paper used for printing logs
Logs Display Remote Station Name Dialed Number	Specifies whether printed logs display the dialed number or the station name returned
Enable Job Log On Off	Enables access to the Fax Job log
Enable Call Log On Off	Enables access to the Fax Call log
Log Output Bin Standard Bin Bin <x>	Specifies the output bin where fax logs are printed

Speaker Settings

Menu item	Description
Speaker Mode Always Off On until Connected Always On	Notes: - Always Off turns the speaker off. - On until Connected is the factory default setting. The speaker is on and issues a noise until the fax connection is made. - Always On turns the speaker on.
Speaker Volume High Low	Controls the volume setting Note: High is the factory default setting.
Ringer Volume On Off	Controls the fax speaker ringer volume Note: On is the factory default setting.

Distinctive Rings

Menu item	Description
Single Ring On Off	Answers calls with a one-ring pattern Note: On is the factory default setting.

Menu item	Description
Double Ring On Off	Answers calls with a double-ring pattern Note: On is the factory default setting.
Triple Ring On Off	Answers calls with a triple-ring pattern Note: On is the factory default setting.

Fax Mode (Fax Server Setup) menu

Fax Server mode sends the fax job to a fax server for transmission.

Fax Server Setup

Menu item	Description
To Format Reply Address Subject Message	Lets you enter the information using the virtual keyboard on the printer touch screen
Primary SMTP Gateway	Specifies SMTP server port information Note: 25 is the default SMTP gateway port.
Secondary SMTP Gateway	Specifies SMTP server port information Note: 25 is the default SMTP gateway port.
Image Format PDF (.pdf) XPS (.xps) TIFF (.tif)	Specifies the image type for scan to fax
Content Text Text/Photo Photograph	Specifies the type of content that will be scanned to fax Notes: - Text is used when the document is mostly text. - Text/Photo is the factory default setting. Text/Photo is used when the documents are mostly text or line art. - Photograph is used when the document is a high-quality photograph or inkjet print.
Fax Resolution Standard Fine Super Fine Ultra Fine	Specifies the resolution level for scan to fax
Darkness 1–9	Lightens or darkens the output Note: 5 factory default setting.

Menu item	Description
Orientation Portrait Landscape	Specifies the orientation of the scanned image
Original Size Letter Legal Executive Folio Statement Universal 4 x 6 in. 3 x 5 in. Business Card Custom Scan Size <x> A4 A5 Oficio (Mexico) A6 JIS B5 Book Original Auto Size Sense Mixed Letter/Legal	Specifies the paper size of the document that is being scanned Note: Letter is the US factory default setting. A4 is the international factory default setting.
Use Multi-Page TIFF On Off	Provides a choice between single-page TIFF files and multiple-page TIFF files. For a multiple-page scan to fax job, either one TIFF file is created containing all the pages, or multiple TIFF files are created with one file for each page of the job. Notes: - On is the factory default setting. - This menu item applies to all scan functions.
Enable Analog Receive On Off	Enables analog fax receive Note: Off is the factory default setting.

E-mail Settings menu

Menu item	Description
E-mail Server Setup Subject Message	Specifies e-mail server information Note: The message box has a limitation of 512 characters.

Menu item	Description
E-mail Server Setup Send me a copy Never appears On by default Off by default Always On	Sends a copy of the e-mail back to the creator of the e-mail
E-mail Server Setup Max e-mail size 0–65535 KB	Specifies the maximum e-mail size in kilobytes Note: E-mail above the specified size is not sent.
E-mail Server Setup Size Error Message	Sends a message when an e-mail is greater than the configured size limit
E-mail Server Setup Limit destinations	Sends an e-mail only when the address contains the domain name, such as a company domain name Notes: • E-mail can only be sent to the specified domain. • The limit is one domain.
E-mail Server Setup Web Link Setup Server Login Password Path Base file name Web Link	Defines the path name Note: Defines the path. For example: /directory/path The following characters or symbols are invalid entries for a path name: * : ? < > .
Format PDF (.pdf) Secure PDF TIFF (.tif) JPEG (.jpg) XPS (.xps)	Specifies the format of the file
PDF Version 1.2–1.6	Sets the version of the PDF file that will be scanned to e-mail Note: 1.5 is the factory default setting.
Content Text/Photo Photograph Text	Specifies the type of content that will be scanned to e-mail Notes: • Text/Photo is the factory default setting. Text/Photo is used when the documents are mostly text or line art. • Photograph is used when the document is a high-quality photograph or inkjet print. • Text is used when the document is mostly text.

Menu item	Description
Color Gray Color	Specifies whether a job prints in grayscale or color Note: Gray is the factory default setting.
Resolution 75 150 200 300 400 600	Specifies how many dots per inch are scanned Note: 150 dpi is the factory default setting.
Darkness 1–9	Lightens or darkens the output Note: 5 is the factory default setting.
Orientation Portrait Landscape	Specifies the orientation of the scanned image Note: Portrait is the factory default setting.
Original Size Letter Legal Executive Folio Statement Universal 4 x 6 in. 3 x 5 in. Business Card Custom Scan Size <x> A4 A5 Oficio (Mexico) A6 JIS B5 Book Original Auto Size Sense Mixed Letter/Legal	Specifies the paper size of the document that is being scanned Note: Letter is the US factory default setting. A4 is the international factory default setting.
Sides (Duplex) Off Long edge Short edge	Specifies how the text and graphics are oriented on the page Notes: • Off is the factory default setting. • Long edge assumes binding along the long edge of the page (left edge for portrait orientation and top edge for landscape orientation). • Short edge assumes binding along the short edge of the page (top edge for portrait orientation and left edge for landscape orientation).

Menu item	Description
JPEG Quality Best for content 5–90	Sets the quality of a JPEG photo image in relation to file size and the quality of the image Notes: • “Best for content” is the factory default setting. • 5 reduces the file size, but the quality of the image is lessened. • 90 provides the best image quality, but the file size is very large. • This menu item applies to all scan functions.
E-mail images sent as Attachment Web Link	Specifies how the images will be sent Note: Attachment is the factory default setting.
Use Multi-Page TIFF On Off	Provides a choice between single-page TIFF files and multiple-page TIFF files. For a multiple-page scan to e-mail job, either one TIFF file is created containing all the pages, or multiple TIFF files are created with one file for each page of the job. Notes: • On is the factory default setting. • This menu item applies to all scan functions.
Transmission Log Print log Do not print log Print only for error	Specifies whether the transmission log prints Note: “Print log” is the factory default setting.
Log Paper Source Tray <x> Manual Feeder Manual Env MP Feeder	Specifies a paper source for printing e-mail logs Note: Tray 1 is the factory default setting.
Log Output Bin Standard Bin Bin <x>	Specifies an output bin for the printed e-mail log
E-mail Bit Depth 8 bit 1 bit	Enables the Text/Photo mode to have smaller file sizes by using 1-bit images when Color is set to Off. Note: 8 bit is the factory default setting.
Custom Job scanning On Off	Lets you copy a document that contains mixed paper sizes into a single job
Scan Preview On Off	Specifies whether a preview will appear on the display for scan jobs Note: Off is the factory default setting.

Menu item	Description
Allow Save as Shortcut On Off	Lets you save e-mail addresses as shortcuts Notes: - Off is the factory default setting. - When set to Off, the Save as Shortcut button does not appear on the E-mail Destination screen.
Background Removal -4 to +4	Adjusts the amount of background visible on a scanned image Note: 0 is the factory default setting.
Auto Center On Off	Lets you automatically center the copy on the page Note: Off is the factory default setting.
Color Dropout Color Dropout None Red Green Blue Default Red Threshold 0–255 Default Green Threshold 0–255 Default Blue Threshold 0–255	Specifies which color to drop during scanning, and how much to increase or decrease the dropout Notes: - None is the factory default setting for Color Dropout. 128 is the factory default setting for each color threshold.
Contrast 0–5 Best for content	Specifies the contrast of the output Note: “Best for content” is the factory default setting.
Mirror Image On Off	Creates a mirror image of the original document Note: Off is the factory default setting.
Negative Image On Off	Creates a negative image of the original document Note: Off is the factory default setting.
Shadow Detail 0–4	Adjusts the amount of shadow detail visible on a scanned image Note: 0 is the factory default setting.
Scan edge to edge On Off	Specifies whether the original document is scanned edge-to-edge Note: Off is the factory default setting.
Sharpness 0–5	Adjusts the amount of sharpness on a scanned image Note: 3 is the factory default setting.
Use cc:/bcc: On Off	Enables the use of the cc: and bcc: fields Note: Off is the factory default setting.

FTP Settings menu

Menu item	Description
Format PDF (.pdf) Secure PDF TIFF (.tif) JPEG (.jpg) XPS (.xps)	Specifies the format of the FTP file Note: PDF (.pdf) is the factory default setting.
PDF Version 1.2–1.6	Sets the version level of the PDF file for FTP Note: 1.5 is the factory default setting.
Content Text/Photo Photograph Text	Specifies the type of content that will be scanned to FTP Notes: - Text/Photo is the factory default setting. Text/Photo is used when the documents are mostly text or line art. - Photograph is used when the document is a high-quality photograph or inkjet print - Text is used when the document is mostly text.
Color Gray Color	Specifies whether a job prints in grayscale or color Note: Gray is the factory default setting.
Resolution 75 150 200 300 400 600	Specifies how many dots per inch are scanned Note: 150 dpi is the factory default setting.
Darkness 1–9	Lightens or darkens the output Note: 5 is the factory default setting.
Orientation Portrait Landscape	Specifies the orientation of the scanned image Note: Portrait is the factory default setting.

Menu item	Description
Original Size Letter Legal Executive Folio Statement Universal 4 x 6 in. 3 x 5 in. Business Card Custom Scan Size <x> A4 A5 Oficio (Mexico) A6 JIS B5 Book Original Auto Size Sense Mixed Letter/Legal	Specifies the paper size of the document that is being scanned Note: Letter is the US factory default setting. A4 is the international factory default setting.
Sides (Duplex) Off Long edge Short edge	Specifies how the text and graphics are oriented on the page Notes: - Off is the factory default setting. - Long edge assumes binding along the long edge of the page (left edge for portrait orientation and top edge for landscape orientation). - Short edge assumes binding along the short edge of the page (top edge for portrait orientation and left edge for landscape orientation).
JPEG Quality Best for content 5–90	Sets the quality of a JPEG photo image in relation to file size and the quality of the image Notes: “Best for content” is the factory default setting. 5 reduces the file size, but the quality of the image is lessened. 90 provides the best image quality, but the file size is very large. - This menu item applies to all scan functions.
Use Multi-Page TIFF On Off	Provides a choice between single-page TIFF files and multiple-page TIFF files. For a multiple-page scan to FTP job, either one TIFF file is created containing all the pages, or multiple TIFF files are created with one file for each page of the job. Notes: - On is the factory default setting. - This menu item applies to all scan functions.

Menu item	Description
Transmission Log Print log Do not print log Print only for error	Specifies whether the transmission log prints Note: "Print log" is the factory default setting.
Log Paper Source Tray <x> Manual Feeder Manual Env MP Feeder	Specifies a paper source for FTP logs Note: Tray 1 is the factory default setting.
Log Output Bin Standard Bin Bin <x>	Specifies an output bin for the FTP log
FTP bit Depth 8 bit 1 bit	Enables the Text/Photo mode to have smaller file sizes by using 1-bit images when Color is set to Off Note: 8 bit is the factory default setting.
Base File Name	Lets you enter a base file name
Custom Job Scanning On Off	Lets you copy a document that contains mixed paper sizes into a single job
Scan Preview On Off	Specifies whether a preview will appear on the display for scan jobs Note: Off is the factory default setting.
Allow Save as Shortcut On Off	Enables shortcut creation for FTP addresses Note: On is the factory default setting.
Background Removal -4 to +4	Adjusts the amount of background visible on a copy Note: 0 is the factory default setting.
Auto Center On Off	Lets you automatically center the copy on the page Note: Off is the factory default setting.
Color Dropout Color Dropout None Red Green Blue Default Red Threshold 0–255 Default Green Threshold 0–255 Default Blue Threshold 0–255	Specifies which color to drop during scanning, and how much to increase or decrease the dropout Notes: • None is the factory default setting for Color Dropout. • 128 is the factory default setting for each color threshold.

Menu item	Description
Contrast 0–5 Best for content	Specifies the contrast of the output Note: “Best for content” is the factory default setting.
Mirror Image On Off	Creates a mirror image of the original document Note: Off is the factory default setting.
Negative Image On Off	Creates a negative image of the original document Note: Off is the factory default setting.
Shadow Detail 0–4	Adjusts the amount of shadow detail visible on a scanned image Note: 0 is the factory default setting.
Scan edge to edge On Off	Specifies whether the original document is scanned edge-to-edge Note: Off is the factory default setting.
Sharpness 0–5	Adjusts the amount of sharpness on a scanned image Note: 3 is the factory default setting.

Flash Drive menu

Scan Settings

Menu item	Description
Format PDF (.pdf) Secure PDF TIFF (.tif) JPEG (.jpg) XPS (.xps)	Specifies the format of the file
PDF Version 1.2–1.6	Sets the version of the PDF file that will be scanned to USB Note: 1.5 is the factory default setting.
Content Text/Photo Photograph Text	Specifies the type of content that will be scanned to USB Notes: - Text/Photo is the factory default setting. Text/Photo is used when the documents are mostly text or line art. - Photograph is used when the document is a high-quality photograph or inkjet print - Text is used when the document is mostly text.
Color Gray Color	Specifies whether job prints in grayscale or color Note: Gray is the factory default setting.

Menu item	Description
Resolution 75 150 200 300 400 600	Specifies how many dots per inch are scanned Note: 150 dpi is the factory default setting.
Darkness 1–9	Lightens or darkens the output Note: 5 is the factory default setting.
Orientation Portrait Landscape	Specifies the orientation of the scanned image Note: Portrait is the factory default setting.
Original Size Letter Legal Executive Folio Statement Universal 4 x 6 in. 3 x 5 in. Business Card Custom Scan Size <x> A4 A5 Oficio (Mexico) A6 JIS B5 Book Original Auto Size Sense Mixed Letter/Legal	Specifies the paper size of the document that is being scanned Note: Letter is the US factory default setting. A4 is the international factory default setting.
Sides (Duplex) Off Long edge Short edge	Specifies how the text and graphics are oriented on the page Notes: • Off is the factory default setting. • Long edge assumes binding along the long edge of the page (left edge for portrait orientation and top edge for landscape orientation). • Short edge assumes binding along the short edge of the page (top edge for portrait orientation and left edge for landscape orientation).

Menu item	Description
Photo JPEG Quality 5–90	Sets the quality of a JPEG photo image in relation to file size and the quality of the image Notes: • 50 is the factory default setting. • 5 reduces the file size, but the quality of the image is lessened. • 90 provides the best image quality, but the file size is very large. • This menu item applies to all scan functions.
JPEG Quality Best for content 5–90	Sets the quality of a JPEG text or text/photo image in relation to file size and the quality of the image. Notes: • “Best for content” is the factory default setting. • 5 reduces the file size, but the quality of the image is lessened. • 90 provides the best image quality, but the file size is very large. • This menu item applies to Text, Text/Photo, and all scan functions.
Use Multi-Page TIFF On Off	Provides a choice between single-page TIFF files and multiple-page TIFF files. For a multiple-page scan to USB job, either one TIFF file is created containing all the pages, or multiple TIFF files are created with one file for each page of the job. Notes: • On is the factory default setting. • This menu item applies to all scan functions.
Scan bit Depth 8 bit 1 bit	Enables the Text/Photo mode to have smaller file sizes by using 1-bit images when Color is set to Off Note: 8 bit is the factory default setting.
Base File Name	Lets you enter a base file name
Custom Job scanning Off On	Lets you copy a document that contains mixed paper sizes into a single job
Scan Preview On Off	Specifies whether a preview will appear on the display for scan jobs Note: Off is the factory default setting.
Background Removal –4 to +4	Adjusts the amount of background visible on a copy Note: 0 is the factory default setting.
Auto Center On Off	Lets you automatically center the copy on the page Note: Off is the factory default setting.

Menu item	Description
Color Dropout Color Dropout None Red Green Blue Default Red Threshold 0–255 Default Green Threshold 0–255 Default Blue Threshold 0–255	Specifies which color to drop during scanning, and how much to increase or decrease the dropout Notes: • None is the factory default setting for Color Dropout. • 128 is the factory default setting for each color threshold.
Contrast 0–5 Best for content	Specifies the contrast of the output Note: “Best for content” is the factory default setting.
Mirror Image On Off	Creates a mirror image of the original document Note: Off is the factory default setting.
Negative Image On Off	Creates a negative image of the original document Note: Off is the factory default setting.
Shadow Detail 0–4	Adjusts the amount of shadow detail visible on a scanned image Note: 0 is the factory default setting.
Scan edge to edge On Off	Specifies whether the original document is scanned edge-to-edge Note: Off is the factory default setting.
Sharpness 0–5	Adjusts the amount of sharpness on a scanned image Note: 3 is the factory default setting.

Print Settings

Menu item	Description
Copies	Specifies the number of copies to print
Paper Source Tray <x> MP Feeder Manual Paper Manual Envelope	Specifies the paper source selected to supply paper for the printer to print from the flash drive
Collate Off (1,1,1,2,2,2) On (1,2,1,2,1,2)	Stacks the pages of a print job in sequence when printing multiple copies Notes: • Off is the factory default setting. No pages will be collated. • The On setting stacks the print job sequentially.

Menu item	Description
Sides (Duplex) On Off	Enables duplex printing (two-sided printing)
Staple On Off	Enables stapling Note: Off is the factory default setting.
Duplex Binding Long Edge Short Edge	Defines the way duplexed pages are bound and how the printing on the back of the page is oriented in relation to the printing on the front of the page Notes: • Long Edge is the factory default setting. • Long Edge specifies that binding be placed on the left edge of portrait pages and the top edge of landscape pages. • Short Edge specifies that binding be placed on the top edge of portrait pages and the left edge of landscape pages.
Orientation Auto Portrait Landscape	Specifies the orientation of the print job Note: Auto is the factory default setting.
N-up (pages/side) Off 2 Up 3 Up 4 Up 6 Up 9 Up 12 Up 16 Up	Specifies that multiple-page images be printed on one side of a sheet of paper. This is also referred to as Paper Saver. Notes: • Off is the factory default setting. • The number selected is the number of page images that will print per side.
N-up Border None Solid	Prints a border around each page image when using N-up Note: None is the factory default setting.
N-up Ordering Horizontal Reverse Horizontal Reverse Vertical Vertical	Specifies the positioning of multiple-page images when using N-up Notes: • Horizontal is the factory default setting. • Positioning depends on the number of images and whether the images are in portrait or landscape orientation.
Separator Sheets None Between Copies Between Jobs Between Pages	Places a sheet of paper between pages, copies, or jobs based on the value selected Note: None is the factory default setting.

Menu item	Description
Separator Source Tray <x> Manual Feeder Envelope Feeder	Specifies a paper source
Blank Pages Do Not Print Print	Specifies whether blank pages are inserted in a print job Note: Do Not Print is the factory default setting.

Print Settings

Setup menu

Menu item	Description
Printer Language PCL Emulation PS Emulation	Sets the default printer language Notes: - PCL emulation uses a PCL interpreter for processing print jobs. PostScript emulation uses a PS interpreter for processing print jobs. - PCL is the factory default printer language. - Setting a printer language as the default does not prevent a software program from sending print jobs that use another printer language.
Job Waiting On Off	Specifies that print jobs be removed from the print queue if they require unavailable printer options or custom settings. They are stored in a separate print queue, so other jobs print normally. When the missing information and/or options are obtained, the stored jobs print. Notes: - Off is the factory default setting. - This menu appears only if a non-Read Only printer hard disk is installed. This requirement ensures that stored jobs are not deleted if the printer loses power.

Menu item	Description
Print Area Normal Whole Page	Sets the logical and physical printable area Notes: • This menu does not appear if Edge to Edge is enabled in the printer Setup menu. • Normal is the factory default setting. When attempting to print data in the non-printable area defined by the Normal setting, the printer clips the image at the boundary. • The Whole Page setting allows the image to be moved into the non-printable area defined by the Normal setting, but the printer will clip the image at the Normal setting boundary. • The Whole Page setting only affects pages printed using a PCL 5e interpreter. This setting has no effect on pages printed using the PCL XL or PostScript interpreter.
Download Target RAM Flash Disk	Sets the storage location for downloads Notes: • RAM is the factory default setting. • Storing downloads in flash memory or on a printer hard disk places them in permanent storage. Downloads remain in flash memory or on the printer hard disk even when the printer is turned off. • Storing downloads in RAM is temporary. • This menu appears only if a flash and/or disk option is installed.
Job Accounting On Off	Specifies whether the printer stores statistical information about the most recent print jobs on the hard disk Notes: • Off is the factory default setting. Off means the printer does not store job statistics. • The statistics include a record of print errors, the print time, the job size in bytes, the requested paper size and type, the total number of printed pages, and the total number of copies requested. • Job Accounting is available only when a printer hard disk is installed and working properly. It should not be Read/Write or Write protected. Job Buffer Size should not be set to 100%. • Changing this setting from the printer control panel and then exiting the menus causes the printer to reset. The menu selection is updated.

Menu item	Description
Resource Save On Off	Specifies how the printer handles temporary downloads, such as fonts and macros stored in RAM, when the printer receives a job that requires more memory than is available Notes: - Off is the factory default setting. Off sets the printer to retain the downloads only until memory is needed. Downloads are deleted in order to process print jobs. - The On setting retains the downloads during language changes and printer resets. If the printer runs out of memory, 38 Memory Full appears, and downloads are not deleted.
Print All Order Alphabetically Newest First Oldest First	Specifies the order in which held and confidential jobs are printed when Print All is selected Notes: - Alphabetically is the factory default setting. - Print jobs always appear in alphabetical order on the printer control panel.

Finishing menu

Menu item	Description
Sides (Duplex) 2 sided 1 sided	Specifies whether duplex (2-sided) printing is set as the default for all print jobs Notes: 1 sided is the factory default setting. - To set 2-sided printing from the software program: for Windows users, click File → Print, and then click Properties, Preferences, Options, or Setup; for Macintosh users, choose File > Print, and then adjust the settings from the Print dialog and pop-up menus.
Duplex Binding Long Edge Short Edge	Defines the way duplexed pages are bound and how the printing on the back of the page is oriented in relation to the printing on the front of the page Notes: - Long Edge is the factory default setting. - Long Edge specifies that binding be placed on the left edge of portrait pages and the top edge of landscape pages. - Short Edge specifies that binding be placed on the top edge of portrait pages and the left edge of landscape pages.
Copies 1–999	Specifies a default number of copies for each print job Note: 1 is the factory default setting.
Blank Pages Do Not Print Print	Specifies whether blank pages are inserted in a print job Note: Do Not Print is the factory default setting.

Menu item	Description
Collate Off (1,1,1,2,2,2) On (1,2,1,2,1,2)	Stacks the pages of a print job in sequence when printing multiple copies Notes: - Off is the factory default setting. No pages will be collated. - The On setting stacks the print job sequentially. - Both settings print the entire job the number of times specified by the Copies menu setting.
Separator Sheets None Between Copies Between Jobs Between Pages	Specifies whether blank separator sheets are inserted Notes: - None is the factory default setting. - Between Copies inserts a blank sheet between each copy of a print job if Collation is set to On. If Collation is set to Off, a blank page is inserted between each set of printed pages, such as after all page 1's and after all page 2's. - Between Jobs inserts a blank sheet between print jobs. - Between Pages inserts a blank sheet between each page of the print job. This setting is useful when printing transparencies or inserting blank pages in a document for notes.
Separator Source Tray <x> Multi-Purpose Feeder Envelope Feeder	Specifies the paper source for separator sheets Notes: - Tray 1 (standard tray) is the factory default setting. - From the Paper menu, Configure MP must be set to Cassette in order for Multi-Purpose Feeder to appear as a menu setting.
N-up (pages-side) Off 2-Up 3-Up 4-Up 6-Up 9-Up 12-Up 16-Up	Specifies that multiple-page images be printed on one side of a sheet of paper Notes: - Off is the factory default setting. - The number selected is the number of page images that will print per side.
N-up Ordering Horizontal Reverse Horizontal Reverse Vertical Vertical	Specifies the positioning of multiple-page images when using N-up (pages-sides) Notes: - Horizontal is the factory default setting. - Positioning depends on the number of images and whether the images are in portrait or landscape orientation.
Orientation Auto Landscape Portrait	Specifies the orientation of a multiple-page sheet Note: Auto is the factory default setting. The printer chooses between portrait and landscape.

Menu item	Description
N-up Border None Solid	Prints a border around each page image when using N-up (pages-sides) Note: None is the factory default setting.
Staple Job Off On	Specifies whether print jobs are stapled Notes: • This menu item is available only when the StapleSmart Finisher is installed. • Off is the factory default setting. Print jobs are not stapled. • Envelopes are not stapled.
Offset Pages Off Between Jobs Between Copies	Stacks copies or print jobs into staggered sets in an output bin Notes: • This menu item appears only when the StapleSmart Finisher is installed. • Off is the factory default setting. No pages are offset during the print job. • Between Jobs offsets each print job. • Between Copies offsets each copy of a print job.

Quality menu

Menu item	Description
Print Resolution 300 dpi 600 dpi 1200 dpi 1200 Image Q 2400 Image Q	Specifies the printed output resolution Note: 600 dpi is the factory default setting. The printer driver default is 1200 IQ.
Pixel Boost Off Fonts Horizontally Vertically Both Directions	Enhances the printed quality of small fonts and graphics Notes: • Off is the factory default setting. • Fonts applies this setting only to text. • Horizontally darkens horizontal lines of text and images. • Vertically darkens vertical lines of text and images. • Both Directions darkens horizontal and vertical lines on text and images.
Toner Darkness 1–10	Lightens or darkens the printed output Notes: • 8 is the factory default setting. • Selecting a smaller number can help conserve toner.

Menu item	Description
Enhance Fine Lines On Off	Enables a print mode preferable for files such as architectural drawings, maps, electrical circuit diagrams, and flow charts Notes: - Off is the factory default setting. - To set Enhance Fine Lines using the Embedded Web Server, type the network printer IP address in a browser window.
Gray Correction Auto Off	Adjusts the gray value of printed output Note: Auto is the factory default setting.
Brightness -6 to +6	Adjusts or darkens printed output and conserves toner Notes: 0 is the factory default setting. - A negative value will darken text, images, and graphics. A positive value will lighten them and conserve toner.
Contrast 0-5	Adjusts the degree of difference between levels of gray in printed output Notes: 0 is the factory default setting. - Higher settings show more difference between levels of gray.

Utilities menu

Menu item	Description
Remove Held Jobs Confidential Held Not Restored All	Removes confidential and held jobs from the printer hard disk Notes: - Selecting a setting affects only print jobs that are resident in the printer. Bookmarks, jobs on flash drives, and other types of held jobs are not affected. - Selecting Not Restored removes all Print and Hold jobs that were <i>not</i> restored from the disk.
Format Flash Yes No	Formats the flash memory. Flash memory refers to the memory added by installing a flash memory option card in the printer. Warning—Potential Damage: Do not turn off the printer while the flash memory is formatting. Notes: - A flash memory option card must be installed in the printer and operating properly for this menu item to be available. The flash memory option card must not be Read/Write or Write protected. - Selecting Yes deletes all data stored in flash memory. - No cancels the format request.
Delete Downloads on Disk Delete Now Do Not Delete	Removes downloads from the printer hard disk, including all held Jobs, buffered jobs, and parked jobs. Job accounting information is not affected. Note: Delete Now is the default setting.

Menu item	Description
Job Acct Stat Print Clear	Prints a list of all stored job statistics or deletes the information from the printer hard disk Notes: • A printer hard disk must be installed in the printer and operating properly for this menu item to be available. • Selecting Print prints a list of statistics. • Clear deletes all job statistics stored on the printer hard disk. • The Clear selection will not appear if Job Accounting is set to MarkTrack™ using NPA.
Hex Trace Activate	Assists in isolating the source of a print job problem Notes: • When Activate is selected, all data sent to the printer is printed in hexadecimal and character representation and control codes are not executed. • To exit or deactivate Hex Trace, turn the printer off or reset the printer.
Coverage Estimator Off On	Provides an estimate of the percentage coverage of black on a page. The estimate is printed on a separate page at the end of each print job. Note: Off is the factory default setting.
LCD Contrast 1–10	Adjusts the contrast lighting of the display Notes: • 5 is the factory default setting. • A higher setting makes the display appear lighter. • A lower setting makes the display appear darker.
LCD Brightness 1–10	Adjusts the brightness of the backlight on the display Notes: • 5 is the factory default setting. • A higher setting makes the display appear lighter. • A lower setting makes the display appear darker.

PDF menu

Menu item	Description
Scale to Fit Yes No	Scales page content to fit the selected paper size Note: No is the factory default setting.
Annotations Do Not Print Print	Prints annotations in a PDF Note: Do Not Print is the factory default setting.

PostScript menu

Menu item	Description
Print PS Error On Off	Prints a page containing the PostScript error Note: Off is the factory default setting.
Font Priority Resident Flash/Disk	Establishes the font search order Notes: - Resident is the factory default setting. - A formatted flash memory option card or printer hard disk must be installed in the printer and operating properly for this menu item to be available. - The flash memory option or printer hard disk cannot be Read/Write, Write, or password protected. - Job Buffer Size must not be set to 100%.

PCL Emul menu

Menu item	Description
Font Source Resident Disk Download Flash All	Specifies the set of fonts used by the Font Name menu item Notes: - Resident is the factory default setting. It shows the factory default set of fonts downloaded into printer RAM. - Flash and Disk settings appear only if applicable and show all fonts resident in that option. - Flash and Disk options must be properly formatted and cannot be Read/Write, Write, or password protected. - Download appears only if applicable and shows all the fonts downloaded into printer RAM. - All shows all fonts available to any option.
Font Name <list of available fonts>	Identifies a specific font and the option where it is stored Notes: - Courier 10 is the factory default setting. - The font source abbreviation is R for Resident, F for Flash, K for Disk, and D for download.
Symbol Set 10U PC-8 12U PC-850	Specifies the symbol set for each font name Notes: 10U PC-8 is the US factory default setting. 12U PC-850 is the international factory default setting. - A symbol set is a set of alphabetic and numeric characters, punctuation, and special symbols. Symbol sets support the different languages or specific programs such as math symbols for scientific text. Only the supported symbol sets are shown.

Menu item	Description
PCL Emulation Settings Pitch 0.08–100	Specifies the font pitch for scalable monospaced fonts Notes: • 10 is the factory default setting. • Pitch refers to the number of fixed-space characters per inch (dpi). • Pitch can be increased or decreased in 0.01-dpi increments. • For nonscalable monospaced fonts, the pitch appears on the display but cannot be changed.
PCL Emulation Settings Orientation Portrait Landscape	Specifies the orientation of text and graphics on the page Notes: • Portrait is the factory default setting. • Portrait prints text and graphics parallel to the short edge of the page. • Landscape prints text and graphics parallel to the long edge of the page.
PCL Emulation Settings Lines per Page 1–255	Specifies the number of lines that print on each page Notes: • 60 is the US factory default setting. 64 is the international default setting. • The printer sets the amount of space between each line based on the Lines per Page, Paper Size, and Orientation settings. Select the desired Paper Size and Orientation <i>before</i> setting Lines per Page.
PCL Emulation Settings A4 Width 198 mm 203 mm	Sets the printer to print on A4-size paper Notes: • 198 mm is the factory default setting. • The 203-mm setting sets the width of the page to allow the printing of eighty 10-pitch characters.
PCL Emulation Settings Auto CR after LF On Off	Specifies whether the printer automatically performs a carriage return after a line feed control command Note: Off is the factory default setting.
PCL Emulation Settings Auto LF after CR On Off	Specifies whether the printer automatically performs a line feed after a carriage return control command Note: Off is the factory default setting.

Menu item	Description
Tray Renumber Assign MP Feeder Off None 0–199 Assign Tray <x> Off None 0–199 Assign Manual Paper Off None 0–199 Assign Man Env Off None 0–199	Configures the printer to work with printer software or programs that use different source assignments for trays, drawers, and feeders Notes: - Off is the factory default setting. - None is not an available selection. It appears only when it is selected by the PCL 5 interpreter. - None ignores the Select Paper Feed command. 0–199 allows a custom setting to be assigned.
Tray Renumber View Factory Def MPF Default = 8 T1 Default = 1 T2 Default = 4 T3 Default = 5 T4 Default = 20 T5 Default = 21 Env Default = 6 MPaper Default = 2 MEnv Default = 3	Lets you view the factory default setting assigned to each tray, drawer, or feeder, even if it has not been installed
Tray Renumber Restore Defaults Yes No	Returns all tray, drawer, and feeder assignments to the factory default settings

HTML menu

Menu item		Description
Font Name 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 Gothic Marigold MonaLisa Recut Monaco New CenturySbk New York Optima Oxford Palatino StempelGaramond Taffy Times TimesNewRoman Univers Zapf Chancery	Sets the default font for HTML documents Notes: - The Times font will be used in HTML documents that do not specify a font. - The following fonts appear only if the appropriate DBCS font card is installed: HG-GothicB, MSung-Light, MD_DotumChe, and MingMT-Light.

Menu item		Description
Font Size 1–255 pt		Sets the default font size for HTML documents Notes: 12 pt is the factory default setting. - Font size can be increased in 1-point increments.
Scale 1–400%		Scales the default font for HTML documents Notes: 100% is the factory default setting. - Scaling can be increased in 1% increments.
Orientation Portrait Landscape		Sets the page orientation for HTML documents Note: Portrait is the factory default setting.
Margin Size 8–255 mm		Sets the page margin for HTML documents Notes: 19 mm is the factory default setting. - Margin size can be increased in 1-mm increments.

Menu item	Description
Backgrounds Do Not Print Print	Specifies whether to print backgrounds on HTML documents Note: Print is the factory default setting.

Image menu

Menu item	Description
Auto Fit On Off	Selects the optimal paper size, scaling, and orientation Notes: - On is the factory default setting. - The On setting overrides scaling and orientation settings for some images.
Invert On Off	Inverts bi-tonal monochrome images Notes: - Off is the factory default setting. - The font size can be increased in 1-point increments. - This setting does not apply to GIF or JPEG images.
Scaling Anchor Top Left Best Fit Anchor Center Fit Height/Width Fit Height Fit Width	Scales the image to fit the selected paper size Notes: - Best Fit is the factory default setting. - When Auto Fit is set to On, Scaling is automatically set to Best Fit.
Orientation Portrait Landscape Rev Portrait Rev Landscape	Sets the image orientation Note: Portrait is the factory default setting.

XPS menu

Menu item	Description
Print Error Pages Off On	Prints a page containing information on errors, including XML markup errors Note: Off is the factory default setting.

Help menu

The Help menu consists of Help pages that are stored in the printer as PDFs. They contain reference information about using the printer and performing tasks. You may select to print each one individually, or select **Print all guides** to print all of them at one time.

English, French, German, and Spanish translations are stored in the printer. Other translations are available on the *Software and Documentation* CD.

Menu item	Description
Print all guides	Prints all the guides
Copy guide	Provides information about making copies and changing settings
E-mail guide	Provides information about sending e-mails using addresses, shortcut numbers, or the address book, and changing settings
Fax guide	Provides information about sending faxes using fax numbers, shortcut numbers, or the address book, and changing settings
FTP guide	Provides information about scanning documents directly to an FTP server using an FTP address, shortcut numbers, or the address book, and changing settings
Information guide	Provides help in locating additional information
Print defects guide	Provides help in resolving repeating defects in copies or prints
Supplies guide	Provides part numbers for ordering supplies

Understanding printer messages

List of status and error messages

Answering

The printer is answering a fax call. Wait for the message to clear.

Busy

Wait for the message to clear.

Call complete

A fax call is completed. Wait for the message to clear.

Change <src> to <x>

<src> is a tray or feeder, and <x> is a paper size or type.

You can change the current paper source for the remainder of the print job. The formatted page will print on the paper loaded in the selected tray. This may cause clipping of text or images. Try one or more of the following:

- Select the paper tray with the correct paper size or type.
- Touch **Use current [src]** to ignore the message and print from the tray selected for the print job.
- Touch **Continue** to continue the job if the correct size and type are loaded in the tray, and this size and type are specified in the printer control panel Paper menu.

Note: If you touch Continue when there is no paper in the tray, the job is not continued.

- Touch **Cancel job** to cancel the current job.

Check tray <x> connection

Try one or more of the following:

- Turn the printer off and then back on.

If the error occurs a second time:

- 1 Turn the printer off.
- 2 Unplug the power cord from the wall outlet.
- 3 Remove the tray.
- 4 Reattach the tray.
- 5 Connect the power cord to a properly grounded outlet.
- 6 Restart the printer.

If the error occurs again:

- 1 Turn the printer off.
- 2 Unplug the power cord from the wall outlet.

- 3 Remove the tray.
 - 4 Contact Customer Support.
- Touch **Continue** to clear the message and print without using the tray.

Close door or insert cartridge

The cartridge is missing or not installed correctly. Insert the cartridge and close all doors and covers.

Close finisher side door

Close the side door on the finisher.

Connect <x>bps

The fax is connected. Wait for the message to clear.

Note: <x> is the baud rate per second.

Dialing

A fax number is dialed. If the number is too long to fit on the screen, only the word **Dialing** appears. Wait for the message to clear.

Disk corrupted

The printer attempted a hard disk recovery on a corrupted hard disk, and the hard disk cannot be repaired. The hard disk must be reformatted.

Touch **Reformat disk** to reformat the hard disk and clear the message.

Note: Reformatting the disk deletes all the files currently stored on the disk.

Disk Full - Scan Job Canceled

The scan job canceled or stopped due to insufficient printer hard disk space.

Touch **Continue** to clear the message.

Fax failed

The fax failed to be sent. Wait for the message to clear.

Fax memory full

There is not enough memory to send the fax job.

Touch **Continue** to clear the message.

Fax partition inoperative. Contact system administrator.

The fax partition appears to be corrupted. Try one or more of the following:

- Touch **Continue** to clear the message.
- Turn the printer off and then back on to reset the printer. If the message appears again, then contact your system support person.

Fax server 'To Format' not set up. Contact system administrator.

The printer is in Fax Server mode, but the Fax Server setup has not been completed.

Try one or more of the following:

- Touch **Continue** to clear the message.
- Complete the Fax Server setup. If the message appears again, contact your system support person.

Fax Station Name not set up

The Fax Station Name has not been entered. Sending and receiving faxes is disabled until fax is configured properly.

Try one or more of the following:

- Touch **Continue** to clear the message.
- Complete the Analog Fax Setup. If the message appears again, contact your system support person.

Fax Station Number not set up

The Fax Station Number has not been entered. Sending and receiving faxes is disabled until fax is configured properly.

Try one or more of the following:

- Touch **Continue** to clear the message.
- Complete the Analog Fax Setup. If the message appears again, contact your system support person.

Flushing buffer

Wait for the message to clear.

Insert staple cartridge

Try one or more of the following:

- Insert a staple cartridge to clear the message.
- Touch **Continue** to clear the message and print without using the staple feature.

Insert Tray <X>

Insert the specified tray into the printer.

Install bin <x>

Try one or more of the following:

- Install the specified bin:
 - 1 Turn the printer off.
 - 2 Unplug the power cord from the wall outlet.
 - 3 Install the specified bin.
 - 4 Connect the power cord to a properly grounded outlet.
 - 5 Restart the printer.
- Cancel the current job.

Install envelope feeder

Try one or more of the following:

- Install the envelope feeder:
 - 1 Turn the printer off.
 - 2 Unplug the power cord from the wall outlet.
 - 3 Install the envelope feeder.
 - 4 Connect the power cord to a properly grounded outlet.
 - 5 Restart the printer.
- Cancel the current job.

Install Tray <x>

Try one or more of the following:

- Install the specified tray:
 - 1 Turn the printer off.
 - 2 Unplug the power cord from the wall outlet.
 - 3 Install the specified tray.
 - 4 Connect the power cord to a properly grounded outlet.
 - 5 Restart the printer.
- Cancel the current job.

Invalid PIN

Enter a valid PIN.

Job stored for delayed transmission

The scanning completed for a delayed send fax job. Wait for the message to clear.

Line busy

A fax number is dialed, but the fax line is busy. Wait for the message to clear.

Load <src> with <x>

<src> is a tray or feeder, and <x> is a paper type or size.

Try one or more of the following:

- Load the specified paper in the tray.
- Touch **Continue** to clear the message and continue printing.

If the printer finds a tray that has the correct paper type and size, it feeds from that tray. If the printer cannot find a tray with the correct paper type and size, it prints from the default source.

- Cancel the current job.

Load manual feeder with <x>

<x> is a paper type or size.

Try one or more of the following:

- Load the specified paper in the multipurpose feeder.
- Touch **Continue** to clear the message and continue printing.

If the printer finds a tray that has the correct paper type and size, then it feeds from that tray. If the printer cannot find a tray with the correct paper type and size, then it prints from the default source.

- Cancel the current job.

Load staples

Try one or more of the following:

- Replace the specified staple cartridge in the finisher.
- Touch **Continue** to clear the message and continue printing.
- Touch **Cancel job** to cancel the print job.

Memory full, cannot print faxes

There is not enough memory to print the fax job.

Touch **Continue** to clear the message without printing. Held faxes will attempt to print after the printer has been restarted.

Network/Network <x>

The printer is connected to the network.

Network indicates that the printer is using the standard network port built into the printer system board. **Network <x>** indicates that an internal print server is installed inside the printer or that the printer is connected to an external print server.

No analog phone line connected to modem, fax is disabled.

The printer is not detecting an analog phone line, so the fax is disabled. Connect the printer to an analog phone line.

No answer

A fax number is dialed, but no connection is made. Wait for the message to clear.

No dial tone

The printer does not have a dial tone. Wait for the message to clear.

Queued for sending

The scanning process of a fax job completed, but the job is not sent yet because another fax job is being sent or received. Wait for the message to clear.

Ready

The printer is ready to receive print jobs.

Reattach bin <x>

Try one or more of the following:

- Turn the printer off and then back on.

If the error occurs a second time:

- 1 Turn the printer off.
- 2 Unplug the power cord from the wall outlet.
- 3 Remove the specified bin.
- 4 Reattach the bin.
- 5 Connect the power cord to a properly grounded outlet.
- 6 Restart the printer.

If the error occurs again:

- 1 Turn the printer off.
 - 2 Unplug the power cord from the wall outlet.
 - 3 Remove the specified bin.
 - 4 Contact Customer Support.
- Touch **Continue** to clear the message and print without using the specified bin.

Reattach bin <x> – <y>

Try one or more of the following:

- Turn the printer off and then back on.

If the error occurs a second time:

- 1 Turn the printer off.
- 2 Unplug the power cord from the wall outlet.
- 3 Remove the specified bins.
- 4 Reattach the bins.

- 5 Connect the power cord to a properly grounded outlet.
- 6 Restart the printer.

If the error occurs again:

- 1 Turn the printer off.
 - 2 Unplug the power cord from the wall outlet.
 - 3 Remove the specified bins.
 - 4 Contact Customer Support.
- Touch **Continue** to clear the message and print without using the specified bins.

Reattach envelope feeder

Try one or more of the following:

- Turn the printer off and then back on.

If the error occurs a second time:

- 1 Turn the printer off.
- 2 Unplug the power cord from the wall outlet.
- 3 Remove the envelope feeder.
- 4 Reattach the envelope feeder.
- 5 Connect the power cord to a properly grounded outlet.
- 6 Restart the printer.

If the error occurs again:

- 1 Turn the printer off.
 - 2 Unplug the power cord from the wall outlet.
 - 3 Remove the envelope feeder.
 - 4 Contact Customer Support.
- Touch **Continue** to clear the message and print without using the envelope feeder.

Receive complete

The printer has received an entire fax job. Wait for the message to clear.

Receiving page <n>

The printer receives page <n> of the fax job, where <n> is the number of the page received. Wait for the message to clear.

Remove packaging material, check <x>

Remove any remaining packaging material from the specified location.

Remove paper from <linked bin set name>

Remove the paper from the specified bin. The printer automatically senses paper removal and resumes printing.

If removing the paper does not clear the message, then touch **Continue**.

Remove paper from all bins

Remove the paper from all of the bins. The printer automatically senses paper removal and resumes printing.

If removing the paper does not clear the message, then touch **Continue**.

Remove paper from bin <x>

Remove the paper from the specified bin. The printer automatically senses paper removal and resumes printing.

If removing the paper does not clear the message, then touch **Continue**.

Remove paper from standard output bin

Remove the stack of paper from the standard exit bin.

Replace <x> if restarting job.

One or more messages which interrupted a scan job are now cleared. Replace the original documents in the scanner to restart the scan job. <x> is a page of the scan job.

Try one or more of the following:

- Touch **Cancel Job** if a scan job is processing when the message appears. This cancels the job and clears the message.
- Touch **Scan from Automatic Document Feeder** if the page jam recovery is active. Scanning resumes from the ADF immediately after the last successfully scanned page.
- Touch **Scan from flatbed** if page jam recovery is active. Scanning resumes from the scanner glass immediately after the last successfully scanned page.
- Touch **Finish job without further scanning** if page jam recovery is active. The job ends at the last successfully scanned page, but the job is not canceled. Successfully scanned pages go to their destination: copy, fax, e-mail, or FTP.
- Touch **Restart job** if job recovery is active. The message clears. A new scan job containing the same parameters as the previous job starts.

Replace wiper

Replace the fuser wiper, or try one or more of the following:

- Touch **Continue** to clear the message and continue printing.
- Touch **Ignore** to clear the message, but at the next power-on, the message appears again.

Restore Held Jobs?

Try one or more of the following:

- Touch **Continue** to restore all held jobs stored on the printer hard disk.
- Touch **Do not restore** if you do not want any print jobs to be restored.

Scan Document Too Long

The scan job exceeds the maximum number of pages. Touch **Cancel Job** to clear the message.

Scanner ADF Cover Open

The ADF cover is open. The message clears when the cover is closed.

Scanner Jam Access Cover Open

Close the bottom ADF door to clear the message.

Securely clearing disk space

The printer hard disk wiping process needs to recover. The message clears when all blocks are cleared.

Sending page <n>

The printer sends page <n> of the fax job, where <n> is the number of the page sent. Wait for the message to clear.

Serial <x>

The printer is using a serial cable connection. The serial port is the active communication link.

Set clock

The clock is not set. This message appears if no other fax status message appears. It remains until the clock is set.

SMTP server not set up. Contact system administrator.

An error occurred on the SMTP server, or the SMTP server is not configured properly. Touch **Continue** to clear the message. If the message appears again, contact your system support person.

Some held jobs were not restored

Touch **Continue** to delete the specified job.

Note: Some held jobs are not restored. They stay on the hard disk and are inaccessible.

Standard Bin Full

Remove the stack of paper from the standard exit bin to clear the message.

The printer may continue to print after this message is displayed. Make sure that the wire paper bail is installed correctly to keep printed pages from spilling out of the bin. The number of pages supported in the output bin is dependent on what type of media is being used (e.g. card stock would print less since it is a thicker media).

System busy, preparing resources for job.

Not all resources needed for the job are available. Wait for the message to clear.

System busy, preparing resources for job. Deleting held job(s).

Not all resources needed for the job are available. Some held jobs are deleted to free system memory. Wait for the message to clear.

Unsupported disk

An unsupported printer hard disk has been installed. Remove the unsupported device, and then install a supported one.

Unsupported USB device, please remove

Remove the unrecognized USB device.

Unsupported USB hub, please remove

Remove the unrecognized USB hub.

USB/USB <X>

The printer is using a USB cable connection. The USB port is the active communication link.

Waiting for redial

The printer is waiting to redial the fax number. Wait for the message to clear.

30 Invalid refill, change cartridge

Remove the print cartridge, and then install a supported one.

31 Replace defective cartridge

Remove the defective print cartridge, and then install a new one.

32 Cartridge part number unsupported by device

Remove the print cartridge, and then install a supported one.

34 Short paper

Try one or more of the following:

- Load the appropriate paper or other specialty media in the proper tray.
- Touch **Continue** to clear the message and print the job using a different paper tray.
- Check tray length and width guides and make sure the paper is properly loaded in the tray.
- Check the Print Properties or Print dialog settings to make sure the print job is requesting the correct paper size and type.
- Check that the paper size is correctly set. For example, if the MP Feeder Size is set to Universal, make sure the paper is large enough for the data being printed.
- Cancel the current print job.

35 Insufficient memory to support Resource Save feature

Try one or more of the following:

- Touch **Continue** to disable Resource Save and continue printing.
- To enable Resource Save after receiving this message, make sure the link buffers are set to Auto, and then exit the menus to activate the link buffer changes. When **Ready** appears, enable Resource Save.
- Install additional memory.

37 Insufficient memory to collate job

Try one or more of the following:

- Touch **Continue** to print the portion of the job already stored and begin collating the rest of the print job.
- Cancel the current print job.

37 Insufficient memory for Flash Memory Defragment operation

Try one or more of the following:

- Touch **Continue** to stop the defragment operation and continue printing.
- Delete fonts, macros, and other data in printer memory.
- Install additional printer memory.

37 Insufficient memory, some Held Jobs were deleted

The printer deleted some held jobs in order to process current jobs.

Touch **Continue** to clear the message.

37 Insufficient memory, some held jobs will not be restored

The printer was unable to restore some or all of the confidential or held jobs on the printer hard disk.

Touch **Continue** to clear the message.

38 Memory full

Try one or more of the following:

- Touch **Continue** to clear the message.
- Cancel the current print job.
- Install additional printer memory.

39 Complex page, some data may not have printed

Try one or more of the following:

- Touch **Continue** to clear the message and continue printing.
- Cancel the current print job.
- Install additional printer memory.

42.xy Cartridge region mismatch

Install a print cartridge that matches the region number of the printer. x indicates the value of the printer region. y indicates the value of the cartridge region. x and y can have the following values:

1	US
2	Europe, the Middle East, and Africa
3	Asia
4	Latin America

50 PPDS font error

Try one or more of the following:

- Touch **Continue** to clear the message and continue printing.
- The printer cannot find a requested font. From the PPDS menu, select **Best Fit**, and then select **On**. The printer will find a similar font and reformat the affected text.
- Cancel the current print job.

51 Defective flash detected

Try one or more of the following:

- Touch **Continue** to clear the message and continue printing.
- Cancel the current print job.

52 Not enough free space in flash memory for resources

Try one or more of the following:

- Touch **Continue** to clear the message and continue printing.
Downloaded fonts and macros not previously stored in flash memory are deleted.
- Delete fonts, macros, and other data stored in flash memory.
- Upgrade to a larger capacity flash memory card.

53 Unformatted flash detected

Try one or more of the following:

- Touch **Continue** to stop the defragment operation and continue printing.
- Format the flash memory. If the error message remains, the flash memory may be defective and require replacing.

54 Network <x> software error

<x> is the number of the network connection.

Try one or more of the following:

- Touch **Continue** to continue printing.
- Turn the printer off and then back on to reset the printer.
- Upgrade (flash) the network firmware in the printer or print server.

54 Serial option <x> error

<x> is the number of the serial option.

Try one or more of the following:

- Check that the serial cable is connected correctly and is the proper one for the serial port.
- Check that the serial interface parameters (protocol, baud, parity, and data bits) are set correctly on the printer and host computer.

- Touch **Continue** to continue printing.
- Turn the printer power off and then back on to reset the printer.

54 Standard network software error

Try one or more of the following:

- Touch **Continue** to continue printing.
- Turn the printer off and then back on to reset the printer.
- Upgrade (flash) the network firmware in the printer or print server.

55 Unsupported option in slot <x>

<x> is a slot on the printer system board.

Try one or more of the following:

- 1 Turn the printer power off.
- 2 Unplug the power cord from the wall outlet.
- 3 Remove the unsupported option card from the printer system board.
- 4 Connect the power cord to a properly grounded outlet.
- 5 Turn the printer power back on.

56 Parallel port <x> disabled

<x> is the number of the parallel port.

Try one or more of the following:

- Touch **Continue** to clear the message.
The printer discards any data received through the parallel port.
- Make sure the Parallel Buffer menu item is not set to Disabled.

56 Serial port <x> disabled

<x> is the number of the serial port.

Try one or more of the following:

- Touch **Continue** to clear the message.
The printer discards any data received through the serial port.
- Make sure the Serial Buffer menu item is not set to Disabled.

56 Standard parallel port disabled

Try one or more of the following:

- Touch **Continue** to clear the message.
The printer discards any data received through the parallel port.
- Make sure the Parallel Buffer menu item is not set to Disabled.

56 Standard USB port disabled

Try one or more of the following:

- Touch **Continue** to clear the message.
The printer discards any data received through the USB port.
- Make sure the USB Buffer menu item is not set to Disabled.

56 USB port <x> disabled

<x> is the number of the USB port.

Try one or more of the following:

- Touch **Continue** to clear the message.
The printer discards any data received through the USB port.
- Make sure the USB Buffer menu item is not set to Disabled.

57 Configuration change, held jobs were not restored

Since the time the jobs were stored on the printer hard disk something has changed in the printer to invalidate the held jobs. Possible changes include:

- The printer firmware has been updated.
- Paper input, output, or duplex options needed for the print job were removed.
- The print job was created using data from a device in the USB port and the device is no longer in the port.
- The printer hard disk contains jobs that were stored while installed in a different printer model.

Touch **Continue** to clear the message.

58 Too many bins attached

- 1 Turn the printer power off.
- 2 Unplug the power cord from the wall outlet.
- 3 Remove the additional bins.
- 4 Connect the power cord to a properly grounded outlet.
- 5 Turn the printer power back on.

58 Too many disks installed

- 1 Turn the printer off.
- 2 Unplug the power cord from the wall outlet.
- 3 Remove the extra disks.
- 4 Connect the power cord to a properly grounded outlet.
- 5 Turn the printer back on.

58 Too many flash options installed

- 1 Turn the printer off.
- 2 Unplug the power cord from the wall outlet.
- 3 Remove the excess flash memory.
- 4 Connect the power cord to a properly grounded outlet.
- 5 Turn the printer back on.

58 Too many trays attached

- 1 Turn the printer off.
- 2 Unplug the power cord from the wall outlet.
- 3 Remove the additional trays.
- 4 Connect the power cord to a properly grounded outlet.
- 5 Turn the printer back on.

59 Incompatible envelope feeder

Try one or more of the following:

- Remove the envelope feeder.
- Touch **Continue** to clear the message and continue printing without using the envelope feeder.

59 Incompatible output bin <x>

Try one or more of the following:

- Remove the specified output bin.
- Touch **Continue** to clear the message and continue printing without using the specified output bin.

59 Incompatible tray <x>

Try one or more of the following:

- Remove the specified tray.
- Touch **Continue** to clear the message and continue printing without using the specified tray.

61 Remove defective disk

Try one or more of the following:

- Touch **Continue** to clear the message and continue printing.
- Install a different printer hard disk before performing any operations that require a printer hard disk.

62 Disk full

Try one or more of the following:

- Touch **Continue** to clear the message and continue processing.
- Delete fonts, macros, and other data stored on the printer hard disk.
- Install a larger printer hard disk.

63 Unformatted disk

Try one or more of the following:

- Touch **Continue** to clear the message and continue printing.
- Format the printer hard disk.

If the error message remains, the hard disk may be defective and require replacing.

80 Routine maintenance needed

The printer needs to have routine maintenance done. Order a maintenance kit, which contains all the items necessary to replace the pick rollers, the charge roll, the transfer roller, and the fuser.

88 Cartridge low

The toner is low. Replace the print cartridge, and then touch **Continue** to clear the message and continue printing.

88.yy Cartridge nearly low

The toner is low. Replace the print cartridge, and then touch **Continue** to clear the message and continue printing.

88.yy Replace cartridge

The print cartridge is empty.

- 1 Replace the print cartridge.
- 2 Touch **Continue** to clear the message.

200–282.yy paper jam

- 1 Clear the paper path.
- 2 Touch **Continue** to continue printing.

283 Staple jam

- 1 Clear the jam from the specified stapler area(s).
- 2 Touch **Continue** to continue printing.

290-294.yy scanner jam

Clear all original documents from the scanner.

293 Replace all originals if restarting job.

The scanner was instructed to scan using the ADF but there is no paper in the ADF. Load paper in the ADF.

Try one or more of the following:

- Touch **Continue** if no scan job is active when the attendance message appears. This clears the message.
- Touch **Cancel Job** if a scan job is processing when the attendance message appears. This cancels the job and clears the message.
- Touch **Scan from Automatic Document Feeder** if the page jam recovery is active. Scanning resumes from the ADF immediately after the last successfully scanned page.
- Touch **Scan from flatbed** if page jam recovery is active. Scanning resumes from the flatbed immediately after the last successfully scanned page.
- Touch **Finish job** without further scanning if page jam recovery is active. The job ends at the last successfully scanned page, but the job is not canceled. Successfully scanned pages go to their destination: copy, fax, e-mail, or FTP.
- Touch **Restart job** if job recovery is active and you are able to restart the job. The message clears. A new scan job containing the same parameters as the previous job starts.

293.02 Flatbed Cover Open

Close the scanner cover.

840.01 Scanner Disabled

This message indicates that the scanner has been disabled by the system support person.

841-846 Scanner Service Error

- 1 Turn the printer off.
- 2 Unplug the power cord from the wall outlet.
- 3 Check all cable connections.
- 4 Connect the power cord to a properly grounded outlet.
- 5 Turn the printer back on.

If the service message appears again, then contact Customer Support, and report the message.

900–999 Service <message>

- 1 Turn the printer off.
- 2 Unplug the power cord from the wall outlet.
- 3 Check all cable connections.
- 4 Connect the power cord to a properly grounded outlet.
- 5 Turn the printer back on.

If the service message appears again, contact Customer Support, and report the message.

1565 Emulation error, load emulation option

The printer automatically clears the message in 30 seconds and then disables the download emulator on the firmware card.

To fix this, download the correct download emulator version from the Lexmark Web site at **www.lexmark.com**.

Maintaining the printer

Periodically, certain tasks are required to maintain optimum print quality.

Cleaning the exterior of the printer

- 1 Make sure that the printer is turned off and unplugged from the wall outlet.



CAUTION—SHOCK HAZARD: To avoid the risk of electric shock when cleaning the exterior of the printer, unplug the power cord from the wall outlet and disconnect all cables to the printer before proceeding.

- 2 Remove paper from the standard exit bin.

- 3 Dampen a clean, lint-free cloth with water.

Warning—Potential Damage: Do not use household cleaners or detergents, as they may damage the finish of the printer.

- 4 Wipe only the outside of the printer, making sure to include the standard exit bin.

Warning—Potential Damage: Using a damp cloth to clean the interior may cause damage to your printer.

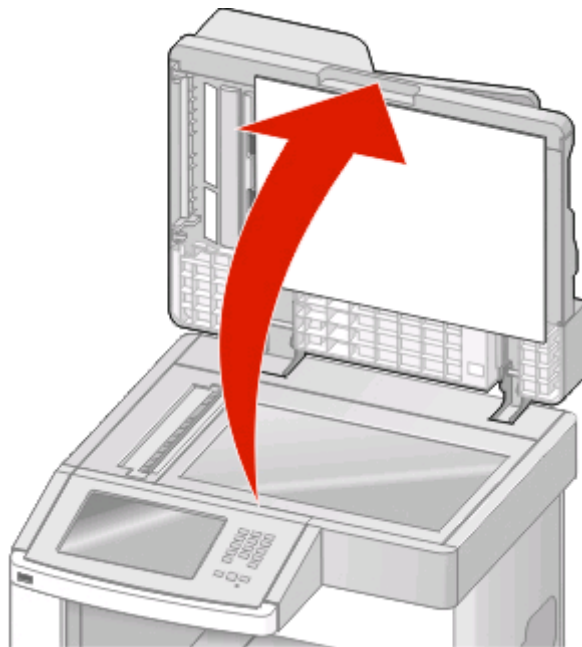
- 5 Make sure the paper support and standard exit bin are dry before beginning a new print job.

Cleaning the scanner glass

Clean the scanner glass if you encounter print quality problems, such as streaks on copied or scanned images.

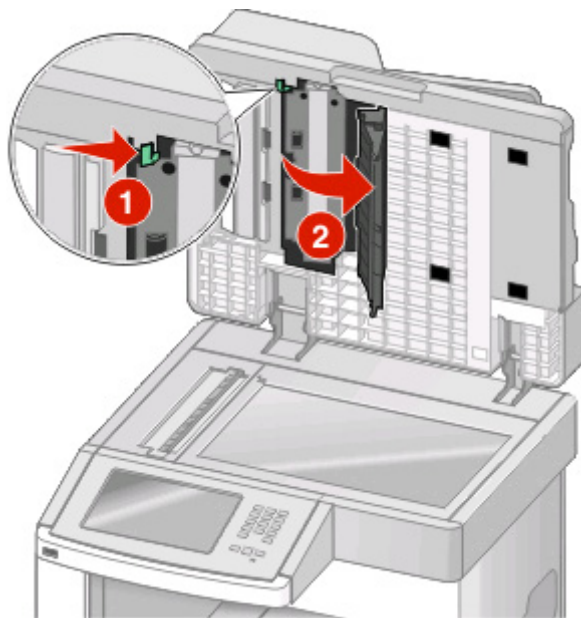
- 1 Slightly dampen a soft, lint-free cloth or paper towel with water.

- 2 Open the scanner cover.



- 3 Wipe the scanner glass until it is clean and dry.

- 4 Wipe the white underside of the scanner cover until it is clean and dry.
- 5 Open the bottom ADF door.



- 6 Wipe the ADF scanner glass under the ADF door.
- 7 Close the bottom ADF door.
- 8 Wipe the scanner glass (flatbed) and backing material by moving the cloth or paper towel from side to side.
- 9 Close the scanner cover.

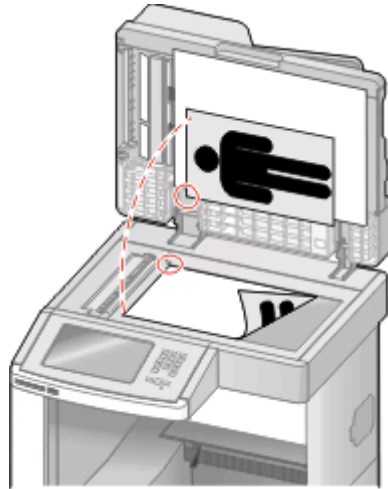
Adjusting scanner registration

Scanner Registration is a process to align the scan area with the paper location. To manually adjust the scanner registration:

- 1 Turn the printer off.
- 2 Clean the scanner glass and backing material.
- 3 Hold down  and  while turning the printer on.
- 4 Release the buttons when the screen with the progress bar appears.
The printer performs a power-on sequence, and then the Configuration menu appears.
- 5 Touch the down arrow until **Scanner Manual Registration** appears.
- 6 Touch **Scanner Manual Registration**.
- 7 Touch **Print Quick Test** to print a registration page.
- 8 Choose the section of the scanner to align.

To align the scanner glass (flatbed):

- a** Place the Quick Test page facedown on the scanner glass.



- b** Touch **Copy Quick Test**.

The scanner prints a copy of the Quick Test page.

- c** Touch **Flatbed**.

- d** Use the copy of the Quick Test page to adjust the Left Margin and Top Margin settings.

- e** Touch **Submit**.

- f** Touch **Copy Quick Test** and compare the new copy to the original.

Repeat the flatbed alignment steps until the position on the page of the Quick Test copy closely matches the original.

To align the ADF:

- a** Do one of the following:

- To align the ADF front: place the Quick Test page faceup, short edge first into the ADF.
- To align the ADF back: place the Quick Test page facedown, short edge first into the ADF.

- b** Touch **Copy Quick Test**.

The scanner prints a copy of the Quick Test page.

- c** Touch **ADF Front** or **ADF Back**.

- d** Use the copy of the Quick Test page to adjust the Horizontal Adjust and Top Margin settings.

- e** Touch **Submit**.

- f** Touch **Copy Quick Test** and compare the new copy to the original.

Repeat the ADF alignment steps until the position on the page of the Quick Test copy closely matches the original.

- 9** Touch **Back**.

- 10** Touch **Exit Configuration**.

Storing supplies

Choose a cool, clean storage area for the printer supplies. Store supplies right side up in their original packing until you are ready to use them.

Do not expose supplies to:

- Direct sunlight
- Temperatures above 35°C (95°F)
- High humidity above 80%
- Salty air
- Corrosive gases
- Heavy dust

Conserving supplies

There are some settings you can change from the printer control panel that will help you conserve toner and paper. For more information, see “Supplies menu,” “Quality menu,” and “Finishing menu.”

If you need to print several copies, you can conserve supplies by printing the first copy and checking it for accuracy before printing the remaining copies.

Checking the status of supplies

A message appears on the display when a replacement supply item is needed or when maintenance is required.

Checking the status of supplies from the printer control panel

- 1 Make sure the printer is on and **Ready** appears.
- 2 On the home screen, touch **Status/Supplies**.

Note: If **Status/Supplies** is not on the home screen, then print a menu settings page to review the status of the supplies.

Checking the status of supplies from a network computer

Note: The computer must be connected to the same network as the printer.

- 1 Type the printer IP address into the address field of your Web browser.
Note: If you do not know the IP address of the printer, print a network setup page and locate the IP address in the TCP/IP section.
- 2 Click **Device Status**. The Device Status page appears, displaying a summary of supply levels.

Ordering supplies

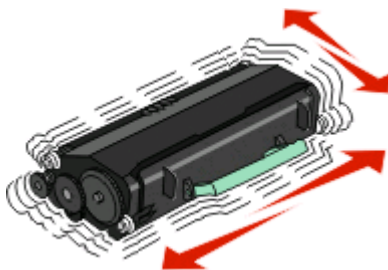
To order supplies in the U.S., contact Lexmark at 1-800-539-6275 for information about Lexmark authorized supplies dealers in your area. In other countries or regions, visit the Lexmark Web Site at www.lexmark.com or contact the place where you purchased the printer.

Note: All life estimates for printer supplies assume printing on letter- or A4-size plain paper.

Ordering print cartridges

When **88 Cartridge low** appears or when the print becomes faded:

- 1 Remove the print cartridge.
- 2 Firmly shake the cartridge side-to-side and front-to-back several times to redistribute toner.



- 3 Reinsert the cartridge and continue printing.

Note: Repeat this procedure multiple times until the print remains faded, and then replace the cartridge.

Recommended print cartridges and part numbers

Part name	Lexmark Return Program Cartridge	Regular cartridge
For the US and Canada		
Print cartridge	X651A11A	X651A21A
High Yield Print Cartridge	X651H11A	X651H21A
Extra High Yield Print Cartridge	X654X11A	X654X21A
High Yield Return Program Print Cartridge for Label Applications	X651H04A	Not applicable
Extra High Yield Return Program Print Cartridge for Label Applications	X654X04A	Not applicable
For Europe, the Middle East, and Africa		
Print cartridge	X651A21E	X651A11E
High Yield Print Cartridge	X651H21E	X651H11E
Extra High Yield Print Cartridge	X654X21E	X654X11E
High Yield Return Program Print Cartridge for Label Applications	X651H04E	Not applicable
Extra High Yield Return Program Print Cartridge for Label Applications	X654X04E	Not applicable

Part name	Lexmark Return Program Cartridge	Regular cartridge
For the Asia Pacific Region, including Australia and New Zealand		
Print cartridge	X651A21P	X651A11P
High Yield Print Cartridge	X651H21P	X651H11P
Extra High Yield Print Cartridge	X654X21P	X654X11P
High Yield Return Program Print Cartridge for Label Applications	X651H04P	Not applicable
Extra High Yield Return Program Print Cartridge for Label Applications	X654X04P	Not applicable
For Latin America		
Print cartridge	X651A21L	X651A11L
High Yield Print Cartridge	X651H21L	X651H11L
Extra High Yield Print Cartridge	X654X21L	X654X11L
High Yield Return Program Print Cartridge for Label Applications	X651H04L	Not applicable
Extra High Yield Return Program Print Cartridge for Label Applications	X654X04L	Not applicable

Ordering a maintenance kit

When **80 Routine maintenance needed** appears, order a maintenance kit. The maintenance kit contains all the items necessary to replace the pick rollers, the charge roll, the transfer roller, and the fuser.

Notes:

- Using certain types of paper may require more frequent replacement of the maintenance kit. The charge roll, fuser, pick rollers, and transfer roller can also be individually ordered and replaced as necessary.
- To check the fuser type (T1 or T2) installed in the printer, remove the print cartridge to view the label on the fuser.

Part name	Part number
Maintenance kit	40X4723 (100 V T1 fuser) 40X4724 (110 V T1 fuser) 40X4765 (220 V T1 fuser) 40X4766 (100 V T2 fuser) 40X4767 (110 V T2 fuser) 40X4768 (220 V T2 fuser)

Ordering a fuser

To check the fuser type (T1 or T2) installed in the printer, remove the print cartridge to view the label on the fuser.

Part name	Part number
T1 fuser	40X1870 (100 V) 40X4418 (110 V) 40X1871 (220 V)
T2 fuser	40X5853 (100 V) 40X5854 (110 V) 40X5855 (220 V)

Ordering an ADF maintenance kit

The ADF maintenance kit contains all the items necessary to replace the ADF pick mechanism and the ADF separator roller.

See the following table for the maintenance kit part number for your specific printer.

Part name	Part number
ADF Maintenance kit	40X4769

Ordering a transfer roller

When toner smudges appear on the front or back of printed pages, order a replacement transfer roller.

Part name	Part number
Transfer roll assembly	40X1886

Ordering charge rolls

When toner fog or background shading appears on printed pages, order replacement charge rolls.

Part name	Part number
Charge roll assembly	40X5852

Ordering pick rollers

When the paper fails to properly feed from the tray, order new pick rollers.

Part name	Part number
Pick rollers	40X4308

Ordering ADF replacement parts

Order ADF replacement parts if you experience problems with paper double-feeding or failing to feed through the automatic document feeder.

Part name	Part number
ADF pick assembly	3017345
ADF separator roll	3017348

Ordering staple cartridges

When **Staples Low** or **Staples Empty** appears, order the specified staple cartridge.

For more information, see the illustrations inside the stapler door.

Part name	Part number
Staple Cartridges—3 pack	25A0013

Recycling Lexmark products

To return Lexmark products to Lexmark for recycling:

- 1 Visit our Web site at **www.lexmark.com/recycle**.
- 2 Find the product type you want to recycle, and then select your country from the list.
- 3 Follow the instructions on the computer screen.

Moving the printer

Before moving the printer

 **CAUTION—POTENTIAL INJURY:** The printer weight is greater than 18 kg (40 lb) and requires two or more trained personnel to move it safely.



⚠ CAUTION—POTENTIAL INJURY: Before moving the printer, follow these guidelines to avoid personal injury or printer damage:

- Turn the printer off using the power switch, and then unplug the power cord from the wall outlet.
- Disconnect all cords and cables from the printer before moving it.
- Lift the printer off of the optional drawer and set it aside instead of trying to lift the drawer and printer at the same time.

Notes:

- Remove all printer options before moving the printer.
- Use the handholds located on both sides of the printer to lift it off the optional drawer.

Warning—Potential Damage: Damage to the printer caused by improper moving is not covered by the printer warranty.

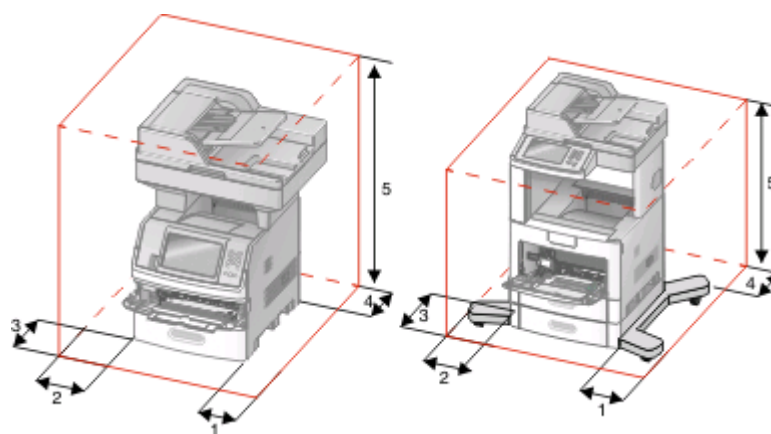
Moving the printer to another location

The printer and options can be safely moved to another location by following these precautions:

- Any cart used to move the printer must have a surface able to support the full footprint of the printer. Any cart used to move the options must have a surface able to support the dimensions of the options.
- Keep the printer in an upright position.
- Avoid severe jarring movements.

Setting the printer up in a new location

Allow the following recommended amount of space around the printer:



1	Right Side	20 cm (8 in.)
2	Left Side	31 cm (12 in.)
3	Front	51 cm (20 in.)
4	Rear	20 cm (8 in.)
5	Top	31 cm (12 in.)

Shipping the printer

When shipping the printer, use the original packaging or call the place of purchase for a relocation kit.

Administrative support

Finding advanced networking and administrator information

This chapter covers basic administrative support tasks. For more advanced system support tasks, see the *Networking Guide* on the *Software and Documentation* CD and the *Embedded Web Server Administrator's Guide* on the Lexmark Web site at www.lexmark.com.

Using the Embedded Web Server

If the printer is installed on a network, the Embedded Web Server is available for a range of functions including:

- Viewing a virtual display of the printer control panel
- Checking the status of the printer supplies
- Configuring printer settings
- Configuring network settings
- Viewing reports

To access the Embedded Web Server, type the printer IP address into the address field of your Web browser.

Notes:

- If you do not know the IP address of the printer, then print a network setup page and locate the IP address in the TCP/IP section.
- For more information, see the *Networking Guide* on the *Software and Documentation* CD and the *Embedded Web Server Administrator's Guide* on the Lexmark Web site at www.lexmark.com.

Checking the device status

Using the Embedded Web Server, you can view paper tray settings, the level of toner in the print cartridge, the percentage of life remaining in the maintenance kit, and capacity measurements of certain printer parts. To view the device status:

- 1 Type the printer IP address in the address field of your Web browser.

Note: If you do not know the IP address of the printer, then print a network setup page and locate the IP address in the TCP/IP section.

- 2 Click **Device Status**.

Setting up e-mail alerts

You can have the printer send you an e-mail when the supplies are getting low or when the paper needs to be changed, added, or jammed.

To set up e-mail alerts:

- 1 Type the printer IP address into the address field of your Web browser.
Note: If you do not know the IP address of the printer, then print a network setup page and locate the IP address in the TCP/IP section.
- 2 Click **Settings**.
- 3 Under Other Settings, click **E-mail Alert Setup**.
- 4 Select the items for notification, and type in the e-mail addresses.
- 5 Click **Submit**.

Note: See your system support person to set up the e-mail server.

Viewing reports

You can view some reports from the Embedded Web Server. These reports are useful for assessing the status of the printer, the network, and supplies.

To view reports from a network printer:

- 1 Type the printer IP address into the address field of your Web browser.
Note: If you do not know the IP address of the printer, then print a network setup page and locate the IP address in the TCP/IP section.
- 2 Click **Reports**, and then click the type of report you want to view.

Adjusting the brightness of the display

If you are having trouble reading your display, the LCD brightness can be adjusted through the Settings menu.

- 1 Make sure the printer is on and **Ready** appears.
- 2 On the home screen, touch .
- 3 Touch **Settings**.
- 4 Touch **General Settings**.
- 5 Touch the down arrow until **Screen Brightness** appears.
- 6 Touch the arrows to increase or decrease the brightness.
Brightness settings can be adjusted from 20–100 (100 is the factory default setting).
- 7 Touch **Submit**.
- 8 Touch .

Adjusting Power Saver

Available settings range from 1–240 minutes. The factory default is 30 minutes.

To increase or decrease the number of minutes before the printer enters Power Saver mode, do one of the following:

Using the Embedded Web Server

- 1 Type the printer IP address into the address field of your Web browser.

Note: If you do not know the IP address of the printer, then print a network setup page and locate the IP address in the TCP/IP section.

- 2 Click **Settings**, and then click **General Settings**.
- 3 Click **Timeouts**.
- 4 In the Power Saver box, increase or decrease the number of minutes you want the printer to wait before it enters Power Saver mode.
- 5 Click **Submit**.

Using the printer control panel

- 1 Make sure the printer is on and **Ready** appears.
- 2 On the home screen, touch .
- 3 Touch **Settings**.
- 4 Touch **General Settings**.
- 5 Touch the down arrow until **Timeouts** appears.
- 6 Touch **Timeouts**.
- 7 Touch the left or right arrow next to **Power Saver Mode** to decrease or increase the time the printer waits before entering Power Saver mode.
The settings available range from 1–240 minutes.
- 8 Touch **Submit**.
- 9 Touch .

Restoring the factory default settings

If you want to retain a list of the current menu settings for reference, then print a menu settings page before you restore the factory default settings. For more information, see “Printing a menu settings page” on page 46.

Warning—Potential Damage: Restoring factory defaults returns most printer settings to the original factory default setting. Exceptions include the display language, custom sizes and messages, and Network/Port menu settings. All downloads stored in RAM are deleted. Downloads stored in flash memory or on a printer hard disk are not affected.

- 1 Make sure the printer is on and **Ready** appears.
- 2 On the home screen, touch .
- 3 Touch **Settings**.

- 4** Touch **General Settings**.
- 5** Touch the down arrow until **Factory Defaults** appears.
- 6** Touch the left or right arrow until **Restore Now** appears.
- 7** Touch **Submit**.
- 8** Touch .

Troubleshooting

Solving basic printer problems

If there are basic printer problems, or the printer is unresponsive, make sure:

- The power cord is plugged into the printer and a properly grounded electrical outlet.
- The electrical outlet is not turned off by any switch or breaker.
- The printer is not plugged into any surge protectors, uninterrupted power supplies, or extension cords.
- Other electronic equipment plugged into the outlet is working.
- The printer is turned on. Check the printer power switch.
- The printer cable is securely attached to the printer and the host computer, print server, option, or other network device.
- All options are properly installed.
- The printer driver settings are correct.

Once you have checked each of these possibilities, turn the printer off, wait for about 10 seconds, and then turn the printer back on. This often fixes the problem.

Printer control panel display is blank or displays only diamonds

The printer self test failed. Turn the printer off, wait about 10 seconds, and then turn the printer on.

If **Ready** does not appear, then turn the printer off and contact Customer Support.

Solving printing problems

Multiple-language PDFs do not print

The documents contain unavailable fonts.

- 1 Open the document you want to print in Adobe Acrobat.
- 2 Click the printer icon.
The Print dialog appears.
- 3 Select **Print as image**.
- 4 Click **OK**.

Error message about reading USB drive appears

Make sure the USB drive is supported. For information regarding tested and approved USB flash memory devices, visit the Lexmark Web site at **www.lexmark.com**.

Jobs do not print

These are possible solutions. Try one or more of the following:

MAKE SURE THE PRINTER IS READY TO PRINT

Make sure **Ready** or **Power Saver** appears on the display before sending a job to print.

CHECK TO SEE IF THE STANDARD EXIT BIN IS FULL

Remove the stack of paper from the standard exit bin.

CHECK TO SEE IF THE PAPER TRAY IS EMPTY

Load paper in the tray.

MAKE SURE THE CORRECT PRINTER SOFTWARE IS INSTALLED

- Verify that you are using the correct printer software.
- If you are using a USB port, make sure you are running a supported operating system and using compatible printer software.

MAKE SURE THE INTERNAL PRINT SERVER IS INSTALLED PROPERLY AND WORKING

- Make sure the internal print server is properly installed and that the printer is connected to the network.
- Print a network setup page and check that the status shows **Connected**. If the status is **Not Connected**, check the network cables, and then try printing the network setup page again. Contact your system support person to make sure the network is functioning correctly.

Copies of the printer software are also available on the Lexmark Web site at www.lexmark.com.

MAKE SURE YOU ARE USING A RECOMMENDED USB, SERIAL, OR ETHERNET CABLE

For more information, visit the Lexmark Web site at www.lexmark.com.

MAKE SURE PRINTER CABLES ARE SECURELY CONNECTED

Check the cable connections to the printer and print server to make sure they are secure.

For more information, see the setup documentation that came with the printer.

Confidential and other held jobs do not print

These are possible solutions. Try one or more of the following:

PARTIAL JOB, NO JOB, OR BLANK PAGES PRINT

The print job may contain a formatting error or invalid data.

- Delete the print job, and then print it again.
- For PDF documents, recreate the PDF and then print it again.

MAKE SURE THE PRINTER HAS SUFFICIENT MEMORY

Free up additional printer memory by scrolling through the list of held jobs and deleting some of them.

Job takes longer than expected to print

These are possible solutions. Try one or more of the following:

REDUCE THE COMPLEXITY OF THE PRINT JOB

Eliminate the number and size of fonts, the number and complexity of images, and the number of pages in the job.

CHANGE THE PAGE PROTECT SETTING TO OFF

- 1 Make sure the printer is on and **Ready** appears.
- 2 On the home screen, touch .
- 3 Touch **Settings**.
- 4 Touch **General Settings**.
- 5 Touch the down arrow until **Print Recovery** appears.
- 6 Touch **Print Recovery**.
- 7 Touch the right arrow next to **Page Protect** until **Off** appears.
- 8 Touch **Submit**.
- 9 Touch .

Job prints from the wrong tray or on the wrong paper

CHECK THE PAPER TYPE SETTING

Make sure the paper type setting matches the paper loaded in the tray:

- 1 From the printer control panel, check the Paper Type setting from the Paper menu.
- 2 Before sending the job to print, specify the correct type setting:
 - For Windows users, specify the type from Print Properties.
 - For Macintosh users, specify the type from the Print dialog.

Incorrect characters print

MAKE SURE THE PRINTER IS NOT IN HEX TRACE MODE

If **Ready Hex** appears on the display, then you must exit Hex Trace mode before you can print your job. Turn the printer off and back on to exit Hex Trace mode.

Tray linking does not work

These are possible solutions. Try one or more of the following:

LOAD THE SAME SIZE AND TYPE OF PAPER

- Load the same size and type of paper in each tray to be linked.
- Move the paper guides to the correct positions for the paper size loaded in each tray.

USE THE SAME PAPER SIZE AND PAPER TYPE SETTINGS

- Print a menu settings page and compare the settings for each tray.
- If necessary, adjust the settings from the Paper Size/Type menu.

Note: The multipurpose feeder does not automatically sense the paper size. You must set the size from the Paper Size/Type menu.

Large jobs do not collate

These are possible solutions. Try one or more of the following:

MAKE SURE COLLATE IS SET TO ON

From the Finishing menu or Print Properties, set Collate to On.

Note: Setting Collate to Off in the software overrides the setting in the Finishing menu.

REDUCE THE COMPLEXITY OF THE PRINT JOB

Reduce the complexity of the print job by eliminating the number and size of fonts, the number and complexity of images, and the number of pages in the job.

MAKE SURE THE PRINTER HAS ENOUGH MEMORY

Add printer memory or an optional hard disk.

Unexpected page breaks occur

INCREASE THE PRINT TIMEOUT VALUE

- 1 Make sure the printer is on and **Ready** appears.
- 2 On the home screen, touch .
- 3 Touch **Settings**.
- 4 Touch **General Settings**.
- 5 Touch the down arrow until **Timeouts** appears.
- 6 Touch **Timeouts**.
- 7 Touch the left or right arrow next to **Print Timeout** until the desired value appears.

8 Touch **Submit**.

9 Touch .

Solving copy problems

Copier does not respond

These are possible solutions. Try one or more of the following:

CHECK THE DISPLAY FOR ERROR MESSAGES

Clear any error messages.

CHECK THE POWER

Make sure the printer is plugged in, the power is on, and **Ready** appears.

Scanner unit does not close

Make sure there are no obstructions:

- 1 Lift the scanner unit.
- 2 Remove any obstruction keeping the scanner unit open.
- 3 Lower the scanner unit.

Poor copy quality

These are some examples of poor copy quality:

- Blank pages
- Checkerboard pattern
- Distorted graphics or pictures
- Missing characters
- Faded print
- Dark print
- Skewed lines
- Smudges
- Streaks
- Unexpected characters
- White lines in print

These are possible solutions. Try one or more of the following:

CHECK THE DISPLAY FOR ERROR MESSAGES

Clear any error messages.

THE TONER MAY BE LOW

When **88 Cartridge low** appears or when the print becomes faded, replace the print cartridge.

THE SCANNER GLASS MAY BE DIRTY

Clean the scanner glass with a clean, lint-free cloth dampened with water. For more information, see “Cleaning the scanner glass” on page 249.

THE COPY IS TOO LIGHT OR TOO DARK

Adjust the density of the copy.

CHECK THE QUALITY OF THE ORIGINAL DOCUMENT

Make sure the quality of the original document is satisfactory.

CHECK THE DOCUMENT PLACEMENT

Make sure the document or photo is loaded facedown on the scanner glass in the upper left corner.

UNWANTED TONER IS IN THE BACKGROUND

- Increase the background removal setting.
- Adjust the darkness to a lighter setting.

PATTERNS (MOIRÉ) APPEAR IN THE OUTPUT

- On the Copy screen, select the Text/Photo or Printed Image icon.
- Rotate the original document on the scanner glass.
- On the Copy screen, adjust the scale setting.

TEXT IS LIGHT OR DISAPPEARING

- On the Copy screen, touch the Text icon.
- Decrease the background removal setting.
- Increase the contrast setting.
- Decrease the shadow detail setting.

THE OUTPUT APPEARS WASHED OUT OR OVEREXPOSED

- On the Copy screen, select the Printed Image icon.
- Decrease the background removal setting.

Partial document or photo copies

These are possible solutions. Try one or more of the following:

CHECK THE DOCUMENT PLACEMENT

Make sure the document or photo is loaded facedown on the scanner glass in the upper left corner.

CHECK THE PAPER SIZE SETTING

Make sure the paper size setting matches the paper loaded in the tray:

- 1 From the printer control panel, check the Paper Size setting from the Paper menu.
- 2 Before sending the job to print, specify the correct size setting:
 - For Windows users, specify the size from Print Properties.
 - For Macintosh users, specify the size from the Page Setup dialog.

Solving scanner problems

Checking an unresponsive scanner

If your scanner is not responding, then make sure:

- The printer is turned on.
- The printer cable is securely attached to the printer and the host computer, print server, option, or other network device.
- The power cord is plugged into the printer and a properly grounded electrical outlet.
- The electrical outlet is not turned off by any switch or breaker.
- The printer is not plugged into any surge protectors, uninterruptible power supplies, or extension cords.
- Other electrical equipment plugged into the outlet is working.

Once you have checked each of these possibilities, turn the printer off and then back on. This often fixes the problem with the scanner.

Scan was not successful

These are possible solutions. Try one or more of the following:

CHECK THE CABLE CONNECTIONS

Make sure the network or USB cable is securely connected to the computer and the printer.

AN ERROR MAY HAVE OCCURRED IN THE PROGRAM

Turn off and then restart the computer.

Scanning takes too long or freezes the computer

These are possible solutions. Try one or more of the following:

OTHER SOFTWARE PROGRAMS MAY BE INTERFERING WITH SCANNING

Close all programs not being used.

THE SCAN RESOLUTION MAY BE SET TOO HIGH

Select a lower scan resolution.

Poor scanned image quality

These are possible solutions. Try one or more of the following:

CHECK THE DISPLAY FOR ERROR MESSAGES

Clear any error messages.

THE SCANNER GLASS MAY BE DIRTY

Clean the scanner glass with a clean, lint-free cloth dampened with water. For more information, see “Cleaning the scanner glass” on page 249.

ADJUST THE SCAN RESOLUTION

Increase the resolution of the scan for a higher quality output.

CHECK THE QUALITY OF THE ORIGINAL DOCUMENT

Make sure the quality of the original document is satisfactory.

CHECK THE DOCUMENT PLACEMENT

Make sure the document or photo is loaded facedown on the scanner glass in the upper left corner.

Partial document or photo scans

These are possible solutions. Try one or more of the following:

CHECK THE DOCUMENT PLACEMENT

Make sure the document or photo is loaded facedown on the scanner glass in the upper left corner.

CHECK THE PAPER SIZE SETTING

Make sure the paper size setting matches the paper loaded in the tray:

- 1 From the printer control panel, check the Paper Size setting from the Paper menu.
- 2 Before sending the job to print, specify the correct size setting:
 - For Windows users, specify the size from Print Properties.
 - For Macintosh users, specify the size from the Page Setup dialog.

Cannot scan from a computer

These are possible solutions. Try one or more of the following:

CHECK THE DISPLAY FOR ERROR MESSAGES

Clear any error messages.

CHECK THE POWER

Make sure the printer is plugged in, the power is on, and **Ready** appears.

CHECK THE CABLE CONNECTIONS

Make sure the network or USB cable is securely connected to the computer and the printer.

Solving fax problems

Caller ID is not shown

Contact your telecommunications company to verify that your telephone line is subscribed to the caller ID service.

If your region supports multiple caller ID patterns, you may have to change the default setting. There are two settings available: FSK (pattern 1) and DTMF (pattern 2). The availability of these settings by way of the Fax menu depends on whether your country or region supports multiple caller ID patterns. Contact your telecommunications company to determine which pattern or switch setting to use.

Cannot send or receive a fax

These are possible solutions. Try one or more of the following:

CHECK THE DISPLAY FOR ERROR MESSAGES

Clear any error messages.

CHECK THE POWER

Make sure the printer is plugged in, the power is on, and **Ready** appears.

CHECK THE PRINTER CONNECTIONS

Make sure the cable connections for the following hardware are secure, if applicable:

- Telephone
- Handset
- Answering machine

CHECK THE TELEPHONE WALL JACK

- 1 Plug a telephone into the wall jack.
- 2 Listen for a dial tone.
- 3 If you do not hear a dial tone, then plug a different telephone into the wall jack.
- 4 If you still do not hear a dial tone, then plug a telephone into a different wall jack.
- 5 If you hear a dial tone, then connect the printer to that wall jack.

REVIEW THIS DIGITAL PHONE SERVICE CHECKLIST

The fax modem is an analog device. Certain devices can be connected to the printer so that digital telephone services can be used.

- If you are using an ISDN telephone service, then connect the printer to an analog telephone port (an R-interface port) on an ISDN terminal adapter. For more information and to request an R-interface port, contact your ISDN provider.
- If you are using DSL, then connect to a DSL filter or router that will support analog use. For more information, contact your DSL provider.
- If you are using a PBX telephone service, then make sure you are connecting to an analog connection on the PBX. If none exists, consider installing an analog telephone line for the fax machine.

CHECK FOR A DIAL TONE

- Place a test call to the telephone number to which you want to send a fax to make sure that it is working correctly.
- If the telephone line is being used by another device, then wait until the other device is finished before sending a fax.
- If you are using the On Hook Dial feature, then turn up the volume to verify a dial tone.

TEMPORARILY DISCONNECT OTHER EQUIPMENT

To ensure the printer is working correctly, connect it directly to the telephone line. Disconnect any answering machines, computers with modems, or telephone line splitters.

CHECK FOR JAMS

Clear any jams, and then make sure that **Ready** appears.

TEMPORARILY DISABLE CALL WAITING

Call Waiting can disrupt fax transmissions. Disable this feature before sending or receiving a fax. Call your telephone company to obtain the keypad sequence for temporarily disabling Call Waiting.

VOICE MAIL SERVICE MAY BE INTERFERING WITH THE FAX TRANSMISSION

Voice Mail offered through your local telephone company may disrupt fax transmissions. To enable both Voice Mail and the printer to answer calls, you may want to consider adding a second telephone line for the printer.

THE PRINTER MEMORY MAY BE FULL

- 1 Dial the fax number.
- 2 Scan the original document one page at a time.

Can send but not receive faxes

These are possible solutions. Try one or more of the following:

CHECK TO SEE IF THE PAPER TRAY IS EMPTY

Load paper in the tray.

CHECK THE RING COUNT DELAY SETTINGS

The ring count delay sets the number of times the phone line rings before the printer answers. If you have extension phones on the same line as the printer, or subscribe to the telephone company's Distinctive Ring service, then keep the Ring Delay setting at 4.

- 1 Type the printer IP address into the address field of your Web browser.

Note: If you do not know the IP address of the printer, then print a network setup page and locate the IP address in the TCP/IP section.

- 2 Click **Settings**.
- 3 Click **Fax Settings**.
- 4 Click **Analog Fax Setup**.
- 5 In the Rings to Answer box, enter the number of times you want the phone to ring before answering.
- 6 Click **Submit**.

THE TONER MAY BE LOW

88 Cartridge low appears when the toner is low.

Can receive but not send faxes

These are possible solutions. Try one or more of the following:

THE PRINTER IS NOT IN FAX MODE

On the home screen, touch **Fax** to put the printer in Fax mode.

THE DOCUMENT IS NOT LOADED PROPERLY

Load the original document faceup, short edge first into the ADF or facedown on the scanner glass in the upper left corner.

Note: Do not load postcards, photos, small items, transparencies, photo paper, or thin media (such as magazine clippings) into the ADF. Place these items on the scanner glass.

MAKE SURE THE SHORTCUT NUMBER IS SET UP PROPERLY

- Check to make sure the shortcut number has been programmed for the number that you want to dial.
- As an alternative, dial the telephone number manually.

Received fax has poor print quality

These are possible solutions. Try one or more of the following:

RE-SEND THE DOCUMENT

Ask the person who sent you the fax to:

- Check that the quality of the original document is satisfactory.
- Resend the fax. There may have been a problem with the quality of the telephone line connection.
- Increase the fax scan resolution, if possible.

THE TONER MAY BE LOW

When **88 Cartridge low** appears or when you experience faded print, replace the cartridge.

MAKE SURE THE FAX TRANSMISSION SPEED IS NOT SET TOO HIGH

Decrease the incoming fax transmission speed:

- 1 Type the printer IP address into the address field of your Web browser.

Note: If you do not know the IP address of the printer, then print a network setup page and locate the IP address in the TCP/IP section.

- 2 Click **Settings**.
- 3 Click **Fax Settings**.
- 4 Click **Analog Fax Setup**.

5 In the Max Speed box, click on one of the following:

2400
4800
9600
14400
33600

6 Click **Submit**.

Solving option problems

Option does not operate correctly or quits after it is installed

These are possible solutions. Try one or more of the following:

RESET THE PRINTER

Turn the printer off, wait about 10 seconds, and then turn the printer on.

CHECK TO SEE IF THE OPTION IS CONNECTED TO THE PRINTER

- 1** Turn the printer off.
- 2** Unplug the printer.
- 3** Check the connection between the option and the printer.

MAKE SURE THE OPTION IS INSTALLED CORRECTLY

Print a menu settings page and check to see if the option is listed in the Installed Options list. If the option is not listed, then reinstall it. For more information, see the hardware setup documentation that came with the option, or go to **www.lexmark.com/publications** to view the option instruction sheet.

MAKE SURE THE OPTION IS SELECTED

From the computer you are printing from, select the option. For more information, see "Updating available options in the printer driver" on page 48.

Paper trays

These are possible solutions. Try one or more of the following:

MAKE SURE THE PAPER IS LOADED CORRECTLY

- 1** Open the paper tray.
- 2** Check for paper jams or misfeeds.
- 3** Make sure paper guides are aligned against the edges of the paper.
- 4** Make sure the paper tray closes properly.

RESET THE PRINTER

Turn the printer off, wait about 10 seconds, and then turn the printer on.

MAKE SURE THE PAPER TRAY IS INSTALLED CORRECTLY

If the paper tray is listed on the menu settings page, but paper jams when it enters or exits the tray, then it may not be properly installed. Reinstall the paper tray. For more information, see the hardware setup documentation that came with the paper tray, or go to www.lexmark.com/publications to view the paper tray instruction sheet.

2000-sheet tray

These are possible solutions. Try one or more of the following:

THE ELEVATOR TRAY IS NOT WORKING PROPERLY

- Make sure the printer is properly connected to the 2000-sheet tray.
- Make sure the printer is turned on.

THE PAPER FEED ROLLERS DO NOT TURN TO ADVANCE PAPER

- Make sure the printer is properly connected to the 2000-sheet tray.
- Make sure the printer is turned on.

Envelope feeder

These are possible solutions. Try one or more of the following:

RESET THE PRINTER

Turn the printer off, wait about 10 seconds, and then turn the printer on.

MAKE SURE THE ENVELOPES ARE LOADED CORRECTLY

- 1 Adjust the envelope support for the length of envelope you are using.
- 2 For more information, see "Loading the envelope feeder" on page 82.

CHECK THE PAPER TYPE AND PAPER SIZE SETTINGS

Make sure the paper type and paper size settings match the envelopes you are using:

- 1 From the printer control panel, check the settings for the envelope feeder from the Paper menu.
- 2 Before sending the job to print, specify the correct settings from the computer:
 - For Windows users, specify the settings from Print Properties.
 - For Macintosh users, specify the settings from the Print dialog.

MAKE SURE THE ENVELOPE FEEDER IS INSTALLED CORRECTLY

If the envelope feeder is listed on the menu settings page, but an envelope jams when it enters or exits the feeder, then it may not be properly installed. Reinstall the envelope feeder. For more information, see the hardware setup documentation that came with the envelope feeder, or go to www.lexmark.com/publications to view the envelope feeder instruction sheet.

Output options

If the high capacity output expander, 4-bin mailbox, or StapleSmart finisher is listed on the menu settings page, but paper jams when it exits the printer or enters the output option, then it may not be properly installed. Reinstall the option. For more information, see the hardware setup documentation that came with the option.

Flash memory card

Make sure the flash memory card is securely connected to the printer system board.

Hard disk with adapter

Make sure the hard disk is securely connected to the printer system board.

Internal Solutions Port

If the Lexmark Internal Solutions Port (ISP) does not operate correctly, then these are possible solutions. Try one or more of the following:

CHECK THE ISP CONNECTIONS

- Make sure the ISP is securely attached to the printer system board.
- Make sure the cable is securely connected to the correct connector.

CHECK THE CABLE

Make sure you are using the correct cable and that it is securely connected.

MAKE SURE THE NETWORK SOFTWARE IS CONFIGURED CORRECTLY

For information about installing software for network printing, see the *Networking Guide* on the *Software and Documentation CD*

Memory card

Make sure the memory card is securely connected to the printer system board.

Solving paper feed problems

Paper frequently jams

These are possible solutions. Try one or more of the following:

CHECK THE PAPER

Use recommended paper and specialty media. For more information, see the chapter about paper and specialty media guidelines.

MAKE SURE THERE IS NOT TOO MUCH PAPER IN THE PAPER TRAY

Make sure the stack of paper you load does not exceed the maximum stack height indicated in the tray or on the multipurpose feeder.

CHECK THE PAPER GUIDES

Move the guides in the tray to the correct positions for the paper size loaded.

THE PAPER MAY HAVE ABSORBED MOISTURE DUE TO HIGH HUMIDITY

- Load paper from a fresh package.
- Store paper in its original wrapper until you use it.

Paper jam message remains after jam is cleared

CHECK THE PAPER PATH

The paper path is not clear. Clear jammed paper from the entire paper path, and then touch **Continue**.

Page that jammed does not reprint after you clear the jam

TURN ON JAM RECOVERY

In the Setup menu, Jam Recovery is set to Off. Set Jam Recovery to Auto or On:

- 1 Make sure the printer is on and **Ready** appears.
- 2 On the home screen, touch .
- 3 Touch **Settings**.
- 4 Touch **General Settings**.
- 5 Touch the down arrow until **Print Recovery** appears.
- 6 Touch **Print Recovery**.
- 7 Touch the right arrow next to **Jam Recovery** until **On** or **Auto** appears.

8 Touch **Submit**.

9 Touch .

Solving print quality problems

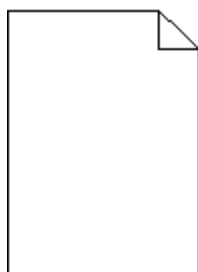
The information in the following topics may help you solve print quality problems. If these suggestions still do not correct the problem, contact Customer Support. You may have a printer part that requires adjustment or replacement.

Isolating print quality problems

To help isolate print quality problems, print the print quality test pages:

- 1 Turn the printer off.
- 2 Load Letter- or A4-size paper in the tray.
- 3 Hold down  and  while turning the printer on.
- 4 Release the buttons when the screen with the progress bar appears.
The printer performs a power-on sequence, and then the Configuration menu appears.
- 5 Touch the down arrow until **Print Quality Pages** appears.
- 6 Touch **Print Quality Pages**.
The print quality test pages print.
- 7 Touch **Back**.
- 8 Touch **Exit Configuration**.

Blank pages



These are possible solutions. Try one or more of the following:

PACKING MATERIAL MAY BE ON THE PRINT CARTRIDGE

Remove the print cartridge and make sure the packing material is properly removed. Reinstall the print cartridge.

THE TONER MAY BE LOW

When **88 Cartridge low** appears, order a new print cartridge.

If the problem continues, the printer may need to be serviced. For more information, contact Customer Support.

Characters have jagged or uneven edges



These are possible solutions. Try one or more of the following:

CHECK THE PRINT QUALITY SETTINGS

- Change the Print Resolution setting in the Quality menu to 600 dpi, 1200 Image Q, 1200 dpi, or 2400 Image Q.
- Enable Enhance Fine Lines in the Quality menu.

MAKE SURE DOWNLOADED FONTS ARE SUPPORTED

If you are using downloaded fonts, then verify that the fonts are supported by the printer, the host computer, and the software program.

Clipped images

These are possible solutions. Try one or more of the following:

CHECK THE GUIDES

Move the width and length guides in the tray to the correct positions for the paper size loaded.

CHECK THE PAPER SIZE SETTING

Make sure the paper size setting matches the paper loaded in the tray:

- 1 From the printer control panel, check the Paper Size setting from the Paper menu.
- 2 Before sending the job to print, specify the correct size setting:
 - For Windows users, specify the size from Print Properties.
 - For Macintosh users, specify the size from the Page Setup dialog.

Ghost images

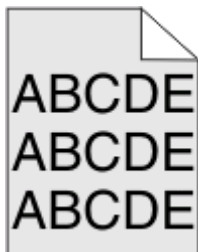


CHECK THE PAPER TYPE SETTING

Make sure the paper type setting matches the paper loaded in the tray:

- 1 From the printer control panel, check the Paper Type setting from the Paper menu.
- 2 Before sending the job to print, specify the correct type setting:
 - For Windows users, specify the type from Print Properties.
 - For Macintosh users, specify the type from the Print dialog.

Gray background

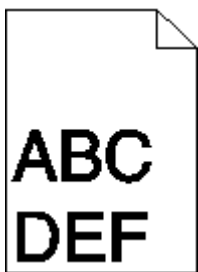


CHECK THE TONER DARKNESS SETTING

Select a lighter Toner Darkness setting:

- From the printer control panel, change the setting from the Quality menu.
- For Windows users, change the setting from Print Properties.
- For Macintosh users, change the setting from the Print dialog.

Incorrect margins



These are possible solutions. Try one or more of the following:

CHECK THE PAPER GUIDES

Move the guides in the tray to the correct positions for the paper size loaded.

CHECK THE PAPER SIZE SETTING

Make sure the paper size setting matches the paper loaded in the tray:

- 1 From the printer control panel, check the Paper Size setting from the Paper menu.
- 2 Before sending the job to print, specify the correct size setting:
 - For Windows users, specify the size from Print Properties.
 - For Macintosh users, specify the size from the Page Setup dialog.

Paper curl

These are possible solutions. Try one or more of the following:

CHECK THE PAPER TYPE SETTING

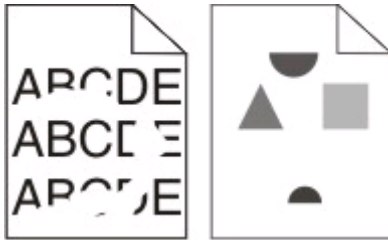
Make sure the paper type setting matches the paper loaded in the tray:

- 1 From the printer control panel, check the Paper Type setting from the Paper menu.
- 2 Before sending the job to print, specify the correct type setting:
 - For Windows users, specify the type from Print Properties.
 - For Macintosh users, specify the type from the Print dialog.

THE PAPER HAS ABSORBED MOISTURE DUE TO HIGH HUMIDITY

- Load paper from a fresh package.
- Store paper in its original wrapper until you use it.

Print irregularities



These are possible solutions. Try one or more of the following:

THE PAPER MAY HAVE ABSORBED MOISTURE DUE TO HIGH HUMIDITY

- Load paper from a fresh package.
- Store paper in its original wrapper until you use it.

CHECK THE PAPER TYPE SETTING

Make sure the paper type setting matches the paper loaded in the tray:

- 1 From the printer control panel, check the Paper Type setting from the Paper menu.
- 2 Before sending the job to print, specify the correct type setting:
 - For Windows users, specify the type from Print Properties.
 - For Macintosh users, specify the type from the Print dialog.

CHECK THE PAPER

Avoid textured paper with rough finishes.

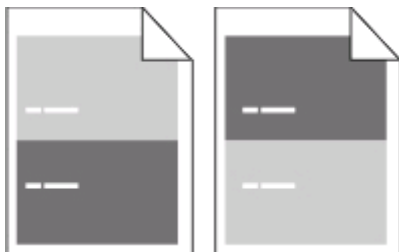
THE TONER MAY BE LOW

When **88 Cartridge low** appears or when the print becomes faded, replace the print cartridge.

THE FUSER MAY BE WORN OR DEFECTIVE

Replace the fuser.

Repeating defects



REPEATING MARKS OCCUR EVENLY DOWN THE PAGE

Replace the charge rolls if the defects occur every 28.3 mm (1.11 in.).

Replace the transfer roller if the defects occur every 51.7 mm (2.04 in.).

Replace the print cartridge if the defects occur every:

- 47.8 mm (1.88 in.)
- 96.8 mm (3.81 in.)

Replace the fuser if the defects occur every:

- 88.0 mm (3.46 in.)
- 95.2 mm (3.75 in.)

Skewed print

These are possible solutions. Try one or more of the following:

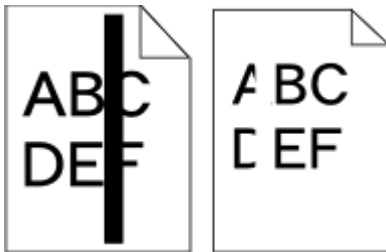
CHECK THE PAPER GUIDES

Move the guides in the tray to the correct positions for the paper size loaded.

CHECK THE PAPER

Make sure you are using paper that meets the printer specifications.

Solid black or white streaks



These are possible solutions. Try one or more of the following:

MAKE SURE THE FILL PATTERN IS CORRECT

If the fill pattern is incorrect, then choose a different fill pattern from your software program or application.

CHECK THE PAPER TYPE

- Try a different type of paper.
- Use only transparencies recommended by the printer manufacturer.
- Make sure the Paper Type and Paper Texture settings match the paper loaded in the tray or feeder.

MAKE SURE THE TONER IS DISTRIBUTED EVENLY IN THE PRINT CARTRIDGE

Remove the print cartridge and shake it from side to side to redistribute the toner, and then reinstall it.

THE PRINT CARTRIDGE MAY BE DEFECTIVE OR LOW ON TONER

Replace the used print cartridge with a new one.

Print is too light



These are possible solutions. Try one or more of the following:

CHECK THE DARKNESS, BRIGHTNESS, AND CONTRAST SETTINGS

The Toner Darkness setting is too light, the Brightness setting is too light, or the Contrast setting is too low.

- From the printer control panel, change these settings from the Quality menu.
- For Windows users, change these settings from Print Properties.
- For Macintosh users, change these settings from the Print dialog and pop-up menus.

THE PAPER HAS ABSORBED MOISTURE DUE TO HIGH HUMIDITY

- Load paper from a fresh package.
- Store paper in its original wrapper until you use it.

CHECK THE PAPER

Avoid textured paper with rough finishes.

CHECK THE PAPER TYPE SETTING

Make sure the paper type setting matches the paper loaded in the tray:

- 1 From the printer control panel, check the Paper Type setting from the Paper menu.
- 2 Before sending the job to print, specify the correct type setting:
 - For Windows users, specify the type from Print Properties.
 - For Macintosh users, specify the type from the Print dialog.

THE TONER IS LOW

When **88 Cartridge Low** appears, order a new print cartridge.

THE PRINT CARTRIDGE MAY BE DEFECTIVE

Replace the print cartridge.

Print is too dark



These are possible solutions. Try one or more of the following:

CHECK THE DARKNESS, BRIGHTNESS, AND CONTRAST SETTINGS

The Toner Darkness setting is too dark, the Brightness setting is too dark, or the Contrast setting is too high.

- From the printer control panel, change these settings from the Quality menu.
- For Windows users, change these settings from Print Properties.
- For Macintosh users, change these settings from the Print dialog and pop-up menus.

THE PAPER HAS ABSORBED MOISTURE DUE TO HIGH HUMIDITY

- Load paper from a fresh package.
- Store paper in its original wrapper until you use it.

CHECK THE PAPER

Avoid textured paper with rough finishes.

CHECK THE PAPER TYPE SETTING

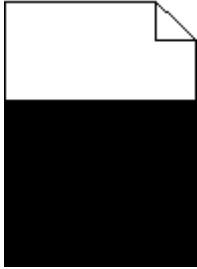
Make sure the paper type setting matches the paper loaded in the tray:

- 1** From the printer control panel, check the Paper Type setting from the Paper menu.
- 2** Before sending the job to print, specify the correct type setting:
 - For Windows users, specify the type from Print Properties.
 - For Macintosh users, specify the type from the Print dialog.

THE PRINT CARTRIDGE MAY BE DEFECTIVE

Replace the print cartridge.

Solid color pages



These are possible solutions. Try one or more of the following:

MAKE SURE THE PRINT CARTRIDGE IS PROPERLY INSTALLED

Remove the print cartridge and shake it from side to side to redistribute the toner, and then reinstall it.

THE PRINT CARTRIDGE MAY BE DEFECTIVE OR LOW ON TONER

Replace the used print cartridge with a new one. If the problem continues, the printer may need to be serviced. For more information, contact Customer Support.

Streaked vertical lines



These are possible solutions. Try one or more of the following:

THE TONER IS SMEARED

Select another tray or feeder to feed paper for the job:

- From the printer control panel, select the Default Source from the Paper Menu.
- For Windows users, select the paper source from Print Properties.
- For Macintosh users, select the paper source from the Print dialog and pop-up menus.

THE PRINT CARTRIDGE IS DEFECTIVE

Replace the print cartridge.

THE PAPER PATH MAY NOT BE CLEAR

Check the paper path around the print cartridge.



CAUTION—HOT SURFACE: The inside of the printer might be hot. To reduce the risk of injury from a hot component, allow the surface to cool before touching.

Clear any paper you see.

THERE IS TONER IN THE PAPER PATH

Contact Customer Support.

Toner fog or background shading appears on the page

These are possible solutions. Try one or more of the following:

THE PRINT CARTRIDGE MAY BE DEFECTIVE

Replace the print cartridge.

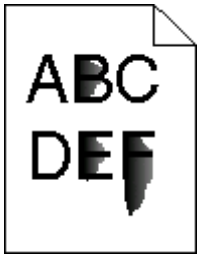
THE CHARGE ROLLS MAY BE DEFECTIVE

Replace the charge rolls.

THERE IS TONER IN THE PAPER PATH

Contact Customer Support.

Toner rubs off



These are possible solutions. Try one or more of the following:

CHECK THE PAPER TYPE SETTING

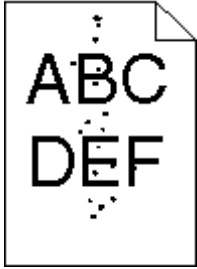
Make sure the paper type setting matches the paper loaded in the tray:

- 1** From the printer control panel, check the Paper Type setting from the Paper menu.
- 2** Before sending the job to print, specify the correct type setting:
 - For Windows users, specify the type from Print Properties.
 - For Macintosh users, specify the type from the Print dialog.

CHECK THE PAPER TEXTURE SETTING

From the printer control panel Paper menu, make sure the Paper Texture setting matches the paper loaded in the tray.

Toner specks



These are possible solutions. Try one or more of the following:

THE PRINT CARTRIDGE MAY BE DEFECTIVE

Replace the print cartridge.

THERE IS TONER IN THE PAPER PATH

Contact Customer Support.

Transparency print quality is poor

Try one or more of the following:

CHECK THE TRANSPARENCIES

Use only transparencies recommended by the printer manufacturer.

CHECK THE PAPER TYPE SETTING

Make sure the paper type setting matches the paper loaded in the tray:

- 1** From the printer control panel, check the Paper Type setting from the Paper menu.
- 2** Before sending the job to print, specify the correct type setting:
 - For Windows users, specify the type from Print Properties.
 - For Macintosh users, specify the type from the Print dialog.

Embedded Web Server does not open

These are possible solutions. Try one or more of the following:

CHECK THE NETWORK CONNECTIONS

Make sure the printer and computer are turned on and connected to the same network.

CHECK THE NETWORK SETTINGS

Depending on the network settings, you may need to type `https://` instead of `http://` before the printer IP address to access the Embedded Web Server. For more information, see your system administrator.

Contacting Customer Support

When you call Customer Support, describe the problem you are experiencing, the message on the display, and the troubleshooting steps you have already taken to find a solution.

You need to know your printer model type and serial number. For more information, see the label on the inside top front cover of the printer. The serial number is also listed on the menu settings page.

In the U.S. or Canada, call (1-800-539-6275). For other countries/regions, visit the Lexmark Web site at **www.lexmark.com**.

Notices

Product name:

Lexmark X651de, Lexmark X652de, Lexmark X654de, Lexmark X656de, Lexmark X656dte, Lexmark X658d, Lexmark X658de, Lexmark X658dme, Lexmark X658dfe, Lexmark X658dte, Lexmark X658dtme, Lexmark X658dtfe

Machine type:

7462

Model(s):

0A1, 0A5, 2A1, 2A2, 2A5, 2A6, 4A2, 4A6, 031, 035, 231, 232, 235, 236, 432, 436

Edition notice

July 2008

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For Lexmark technical support, visit **support.lexmark.com**.

For information on supplies and downloads, visit **www.lexmark.com**.

If you don't have access to the Internet, you can contact Lexmark by mail:

Lexmark International, Inc.
Bldg 004-2/CSC
740 New Circle Road NW
Lexington, KY 40550

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Federal Communications Commission (FCC) compliance information statement

This product has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The FCC Class A limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

The manufacturer is not responsible for any radio or television interference caused by using other than recommended cables or by unauthorized changes or modifications to this equipment. Unauthorized changes or modifications could void the user's authority to operate this equipment.

Note: To assure compliance with FCC regulations on electromagnetic interference for a Class A computing device, use a properly shielded and grounded cable such as Lexmark part number 1021231 for parallel attach or 1021294 for USB attach. Use of a substitute cable not properly shielded and grounded may result in a violation of FCC regulations.

Compliance statement

This product complies with the Class A emission requirements of EN55022 and immunity requirements of EN55024. This product is not intended to be used in residential environments.

Exposure to radio frequency radiation

The following notice is applicable if your printer has a wireless network card installed.

The radiated output power of this device is far below the FCC radio frequency exposure limits. A minimum separation of 20 cm (8 inches) must be maintained between the antenna and any persons for this device to satisfy the RF exposure requirements of the FCC.

Industry Canada notices

Industry Canada compliance statement

This Class A digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Standard ICES-003.

Avis de conformité aux normes de l'industrie du Canada

Cet appareil numérique de classe A est conforme aux exigences de la norme canadienne relative aux équipements pouvant causer des interférences NMB-003.

Industry Canada radio interference statement

Industry Canada (Canada)

This device complies with Industry Canada specification RSS-210. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

This device has been designed to operate only with the antenna provided. Use of any other antenna is strictly prohibited per regulations of Industry Canada.

To prevent radio interference to the licensed service, this device is intended to be operated indoors and away from windows to provide maximum shielding. Equipment (or its transmit antenna) that is installed outdoors is subject to licensing.

The installer of this radio equipment must ensure that the antenna is located or pointed such that it does not emit RF fields in excess of Health Canada limits for the general population; consult Safety Code 6, obtainable from Health Canada's Web site www.hc-sc.gc.ca/rpb.

The term "IC:" before the certification/registration number only signifies that the Industry Canada technical specifications were met.

Industry Canada (Canada)

Cet appareil est conforme à la norme RSS-210 d'Industry Canada. Son fonctionnement est soumis aux deux conditions suivantes :

(1) cet appareil ne doit pas provoquer d'interférences et (2) il doit accepter toute interférence reçue, y compris celles risquant d'altérer son fonctionnement.

Cet appareil a été conçu pour fonctionner uniquement avec l'antenne fournie. L'utilisation de toute autre antenne est strictement interdite par la réglementation d'Industry Canada.

En application des réglementations d'Industry Canada, l'utilisation d'une antenne de gain supérieur est strictement interdite.

Pour empêcher toute interférence radio au service faisant l'objet d'une licence, cet appareil doit être utilisé à l'intérieur et loin des fenêtres afin de garantir une protection optimale.

Si le matériel (ou son antenne d'émission) est installé à l'extérieur, il doit faire l'objet d'une licence.

L'installateur de cet équipement radio doit veiller à ce que l'antenne soit implantée et dirigée de manière à n'émettre aucun champ HF dépassant les limites fixées pour l'ensemble de la population par Santé Canada. Reportez-vous au Code de sécurité 6 que vous pouvez consulter sur le site Web de Santé Canada www.hc-sc.gc.ca/rpb.

Le terme « IC » précédant le numéro de d'accréditation/inscription signifie simplement que le produit est conforme aux spécifications techniques d'Industry Canada.

Radio interference notice

This is a Class A product. In a domestic environment, this product may cause radio interference, in which case, the user may be required to take adequate measures.

European Community (EC) directives conformity

This product is in conformity with the protection requirements of EC Council directives 2004/108/EC, 2006/95/EC, and 1999/5/EC on the approximation and harmonization of the laws of the Member States relating to electromagnetic compatibility, safety of electrical equipment designed for use within certain voltage limits and on radio equipment and telecommunications terminal equipment.

Compliance is indicated by the CE marking.



A declaration of conformity with the requirements of the directives is available from the Director of Manufacturing and Technical Support, Lexmark International, S. A., Boigny, France.

This product satisfies the limits of EN 55022; safety requirements of EN 60950; radio spectrum requirements of ETSI EN 300 330-1 and ETSI EN 300 330-2; and the EMC requirements of EN 55024, ETSI EN 301 489-1 and ETSI EN 301 489-3.

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India emissions notice

This device uses very low power low range RF communication that has been tested and found not to cause any interference whatsoever. The manufacturer is not responsible in case of any disputes arising out of requirement of permissions from any local authority, regulatory bodies or any organization, required by the end-user to install and operate this product at his premises.

भारतीय उत्सर्जन सूचना

यह यंत्र बहुत ही कम शक्ति, कम रेंज के RF कम्युनिकेशन का प्रयोग करता है जिसका परीक्षण किया जा चुका है, और यह पाया गया है कि यह किसी भी प्रकार का व्यवधान उत्पन्न नहीं करता। इसके अंतिम प्रयोगता द्वारा इस उत्पाद को अपने प्रांगण में स्थापित एवं संचालित करने हेतु किसी स्थानीय प्राधिकरण, नियामक निकायों या किसी संगठन से अनुज्ञा प्राप्त करने की जरूरत के संबंध में उठे विवाद की स्थिति में विनिर्माता जिम्मेदार नहीं है।

Noise emission levels

The following measurements were made in accordance with ISO 7779 and reported in conformance with ISO 9296.

Note: Some modes may not apply to your product.

1-meter average sound pressure, dBA	
Printing	56 dBA
Scanning	52 dBA
Copying	56 dBA
Ready	30 dBA

Values are subject to change. See www.lexmark.com for current values.

Temperature information

Ambient temperature	15.6C° – 32.2C°
Shipping and storage temperature	-40.0C° – 60.0C°

Waste from Electrical and Electronic Equipment (WEEE) directive



The WEEE logo signifies specific recycling programs and procedures for electronic products in countries of the European Union. We encourage the recycling of our products. If you have further questions about recycling options, visit the Lexmark Web site at www.lexmark.com for your local sales office phone number.

Product disposal

Do not dispose of the printer or supplies in the same manner as normal household waste. Consult your local authorities for disposal and recycling options.

Federal Communications Commission (FCC) compliance information statement

This equipment complies with Part 68 of the FCC rules and the requirements adopted by the Administrative Council for Terminal Attachments (ACTA). On the back of this equipment is a label that contains, among other information, a product identifier in the format US:AAAEQ##TXXXX. If requested, this number must be provided to your telephone company.

This equipment uses the RJ-11C Universal Service Order Code (USOC) jack.

A plug and jack used to connect this equipment to the premises' wiring and telephone network must comply with the applicable FCC Part 68 rules and requirements adopted by the ACTA. A compliant telephone cord and modular plug is provided with this product. It is designed to be connected to a compatible modular jack that is also compliant. See your setup documentation for more information.

The Ringer Equivalence Number (REN) is used to determine the number of devices that may be connected to a telephone line. Excessive RENs on a telephone line may result in the devices not ringing in response to an incoming call. In most but not all areas, the sum of RENs should not exceed five (5.0). To be certain of the number of devices that may be connected to a line, as determined by the total RENs, contact your local telephone company. For products approved after July 23, 2001, the REN for this product is part of the product identifier that has the format US:AAAEQ##TXXXX. The digits represented by ## are the REN without a decimal point (for example, 03 is a REN of 0.3). For earlier products, the REN is shown separately on the label.

If this equipment causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. If advance notice is not practical, the telephone company will notify the customer as soon as possible. You will also be advised of your right to file a complaint with the FCC.

The telephone company may make changes in its facilities, equipment, operations or procedures that could affect the operation of this equipment. If this happens, the telephone company will provide advance notice in order for you to make necessary modifications to maintain uninterrupted service.

If you experience trouble with this equipment, for repair or warranty information, contact Lexmark International, Inc. at **www.lexmark.com** or your Lexmark representative. If the equipment is causing harm to the telephone network, the telephone company may request that you disconnect the equipment until the problem is resolved.

This equipment contains no user serviceable parts. For repair and warranty information, contact Lexmark International, Inc. See the previous paragraph for contact information.

Connection to party line service is subject to state tariffs. Contact the state public utility commission, public service commission, or corporation commission for information.

If your home has specially wired alarm equipment connected to the telephone line, ensure the installation of this equipment does not disable your alarm equipment. If you have questions about what will disable alarm equipment, consult your telephone company or a qualified installer.

Telephone companies report that electrical surges, typically lightning transients, are very destructive to customer terminal equipment connected to AC power sources. This has been identified as a major nationwide problem. It is recommended that the customer install an appropriate AC surge arrestor in the AC outlet to which this device is connected. An appropriate AC surge arrestor is defined as one that is suitably rated, and certified by UL (Underwriter's Laboratories), another NRTL (Nationally Recognized Testing Laboratory), or a recognized safety certification body in the country/region of use. This is to avoid damage to the equipment caused by local lightning strikes and other electrical surges.

The Telephone Consumer Protection Act of 1991 makes it unlawful for any person to use a computer or other electronic device, including fax machines, to send any message unless said message clearly contains in a margin at the top or bottom of each transmitted page or on the first page of the transmission, the date and time it is sent and an identification of the business or other entity, or other individual sending the message, and the telephone number of the sending machine or such business, other entity, or individual. (The telephone number provided may not be a 900 number or any other number for which charges exceed local or long-distance transmission charges.)

See your user documentation in order to program this information into your fax machine.

Notice to users of the Canadian telephone network

This product meets the applicable Industry Canada technical specifications. The Ringer Equivalence Number (REN) is an indication of the maximum number of terminals allowed to be connected to a telephone interface. The terminus of an interface may consist of any combination of devices, subject only to the requirement that the sum of the RENs of all the devices does not exceed five. The modem REN is located on the rear of the equipment on the product labeling.

Telephone companies report that electrical surges, typically lightning transients, are very destructive to customer terminal equipment connected to AC power sources. This has been identified as a major nationwide problem. It is recommended that the customer install an appropriate AC surge arrestor in the AC outlet to which this device is connected. An appropriate AC surge arrestor is defined as one that is suitably rated, and certified by UL (Underwriter's Laboratories), another NRTL (Nationally Recognized Testing Laboratory), or a recognized safety certification body in the country/region of use. This is to avoid damage to the equipment caused by local lightning strikes and other electrical surges.

This equipment uses CA11A telephone jacks.

Avis réservé aux utilisateurs du réseau téléphonique du Canada

Ce produit est conforme aux spécifications techniques d'Industrie Canada. Le numéro REN (ringer equivalence number : numéro d'équivalence de sonnerie) fournit une indication du nombre maximum de terminaux pouvant être connectés à l'interface téléphonique. En bout de ligne, le nombre d'appareils qui peuvent être connectés n'est pas directement limité, mais la somme des REN de ces appareils ne doit pas dépasser cinq. Le numéro REN du modem est indiqué sur l'étiquette produit située à l'arrière de l'équipement.

Les compagnies de téléphone constatent que les surtensions électriques, en particulier celles dues à la foudre, entraînent d'importants dégâts sur les terminaux privés connectés à des sources d'alimentation CA. Il s'agit-là d'un problème majeur d'échelle nationale. En conséquence, il vous est recommandé de brancher un parasurtenseur dans la prise de courant à laquelle l'équipement est connecté. Utilisez un parasurtenseur répondant à des caractéristiques nominales satisfaisantes et certifié par le laboratoire d'assureurs UL (Underwriter's Laboratories), un autre laboratoire agréé de type NRTL (Nationally Recognized Testing Laboratory) ou un organisme de certification agréé dans votre région ou pays. Ceci prévient tout endommagement de l'équipement causé par les orages et autres surtensions électriques.

Cet équipement utilise des prises de téléphone CA11A.

Notice to users of the New Zealand telephone network

The following are special conditions for the Facsimile User Instructions. The grant of a telepermit for any item of terminal equipment indicates only that Telecom has accepted that the item complies with minimum conditions for connection to its network. It indicates no endorsement of the product by Telecom, nor does it provide any sort of warranty. Above all, it provides no assurance that any item will work correctly in all respects with another item of telepermitted equipment of a different make or model, nor does it imply that any product is compatible with all of Telecom's network services.

This equipment shall not be set up to make automatic calls to the Telecom's 111 Emergency Service.

This equipment may not provide for the effective hand-over of a call to another device connected to the same line.

This equipment should not be used under any circumstances that may constitute a nuisance to other Telecom customers.

Some parameters required for compliance with Telecom's telepermit requirements are dependent on the equipment associated with this device. The associated equipment shall be set to operate within the following limits for compliance to Telecom's specifications:

- There shall be no more than 10 call attempts to the same number within any 30 minute period for any single manual call initiation, and
- The equipment shall go on-hook for a period of not less than 30 seconds between the end of one attempt and the beginning of the next call attempt.

- The equipment shall be set to ensure that automatic calls to different numbers are spaced such that there is not less than 5 seconds between the end of one call attempt and the beginning of another.

South Africa telecommunications notice

This modem must be used in conjunction with an approved surge protection device when connected to the PSTN.

Using this product in Switzerland

This product requires a Swiss billing tone filter (Lexmark part number 14B5109 or 80D1877) to be installed on any line which receives metering pulses in Switzerland. The Lexmark filter must be used, as metering pulses are present on all analog telephone lines in Switzerland.

Utilisation de ce produit en Suisse

Cet appareil nécessite l'utilisation d'un filtre de tonalité de facturation suisse (n° de référence Lexmark : 14B5109 ou 80D1877) devant être installé sur toute ligne recevant des impulsions de comptage en Suisse. Ce filtre doit être utilisé pour toute installation car ces impulsions existent sur toutes les lignes téléphoniques suisses.

Verwendung dieses Produkts in der Schweiz

Für dieses Produkt muss ein schweizerischer Billing Tone Filter zur Zählzeichenübertragung (Lexmark Teilenummer 14B5109 oder 80D1877) für jede Leitung installiert werden, über die in der Schweiz Zeitsteuertakte übertragen werden. Die Verwendung des Lexmark Filters ist obligatorisch, da in allen analogen Telefonleitungen in der Schweiz Zeitsteuertakte vorhanden sind.

Uso del prodotto in Svizzera

Questo prodotto richiede un filtro toni Billing svizzero, (codice Lexmark 14B5109 o 80D1877) da installare su tutte le linee che ricevono impulsi remoti in Svizzera. È necessario utilizzare il filtro Lexmark poiché gli impulsi remoti sono presenti su tutte le linee analogiche in Svizzera.

ENERGY STAR



Laser notice

The printer is certified in the U.S. to conform to the requirements of DHHS 21 CFR Subchapter J for Class I (1) laser products, and elsewhere is certified as a Class I laser product conforming to the requirements of IEC 60825-1.

Class I laser products are not considered to be hazardous. The printer contains internally a Class IIIb (3b) laser that is nominally a 5 milliwatt gallium arsenide laser operating in the wavelength of 770-795 nanometers. The laser system and printer are designed so there is never any human access to laser radiation above a Class I level during normal operation, user maintenance, or prescribed service condition.

Laser advisory label

A laser notice label may be affixed to this printer as shown:



Power consumption

Product power consumption

The following table documents the power consumption characteristics of the product.

Note: Some modes may not apply to your product.

Mode	Description	Power consumption (Watts)
Printing	The product is generating hard-copy output from electronic inputs.	700 W
Copying	The product is generating hard-copy output from hard-copy original documents.	765 W
Scanning	The product is scanning hard-copy documents.	165 W
Ready	The product is waiting for a print job.	95 W
Power Saver	The product is in energy-saving mode.	21W, 24W, 26W
High Off	The product is plugged into a wall outlet, but the power switch is turned off.	N/A
Low Off (<1 W Off)	The product is plugged into a wall outlet, the power switch is turned off, and the product is in the lowest possible power consumption mode.	N/A
Off	The product is plugged into a wall outlet, but the power switch is turned off.	110V = 0.15W, 220V = 1.25W

The power consumption levels listed in the previous table represent time-averaged measurements. Instantaneous power draws may be substantially higher than the average.

Values are subject to change. See www.lexmark.com for current values.

Power Saver

This product is designed with an energy-saving mode called Power Saver. The Power Saver Mode is equivalent to the EPA Sleep Mode. The Power Saver Mode saves energy by lowering power consumption during extended periods of inactivity. The Power Saver Mode is automatically engaged after this product is not used for a specified period of time, called the Power Saver Timeout.

Factory default Power Saver Timeout for this product (in minutes):	110V = 45 minutes, 220V = 60 minutes

By using the configuration menus, the Power Saver Timeout can be modified between 1 minute and 240 minutes. Setting the Power Saver Timeout to a low value reduces energy consumption, but may increase the response time of the product. Setting the Power Saver Timeout to a high value maintains a fast response, but uses more energy.

Off mode

If this product has an off mode which still consumes a small amount of power, then to completely stop product power consumption, disconnect the power supply cord from the wall outlet.

Total energy usage

It is sometimes helpful to calculate the total product energy usage. Since power consumption claims are provided in power units of Watts, the power consumption should be multiplied by the time the product spends in each mode in order to calculate energy usage. The total product energy usage is the sum of each mode's energy usage.

Statement of Limited Warranty

Lexmark X651de, Lexmark X652de, Lexmark X654de, Lexmark X656de, Lexmark X656dte, Lexmark X658d, Lexmark X658de, Lexmark X658dme, Lexmark X658dfe, Lexmark X658dte, Lexmark X658dtme, Lexmark X658dtfe

Lexmark International, Inc., Lexington, KY

This limited warranty applies to the United States and Canada. For customers outside the U.S., refer to the country-specific warranty information that came with your product.

This limited warranty applies to this product only if it was originally purchased for your use, and not for resale, from Lexmark or a Lexmark Remarketer, referred to in this statement as "Remarketer."

Limited warranty

Lexmark warrants that this product:

- Is manufactured from new parts, or new and serviceable used parts, which perform like new parts
- Is, during normal use, free from defects in material and workmanship

If this product does not function as warranted during the warranty period, contact a Remarketer or Lexmark for repair or replacement (at Lexmark's option).

If this product is a feature or option, this statement applies only when that feature or option is used with the product for which it was intended. To obtain warranty service, you may be required to present the feature or option with the product.

If you transfer this product to another user, warranty service under the terms of this statement is available to that user for the remainder of the warranty period. You should transfer proof of original purchase and this statement to that user.

Limited warranty service

The warranty period starts on the date of original purchase as shown on the purchase receipt and ends 12 months later provided that the warranty period for any supplies and for any maintenance items included with the printer shall end earlier if it, or its original contents, are substantially used up, depleted, or consumed.

To obtain warranty service you may be required to present proof of original purchase. You may be required to deliver your product to the Remarketer or Lexmark, or ship it prepaid and suitably packaged to a Lexmark designated location. You are responsible for loss of, or damage to, a product in transit to the Remarketer or the Lexmark designated location.

When warranty service involves the exchange of a product or part, the item replaced becomes the property of the Remarketer or Lexmark. The replacement may be a new or repaired item.

The replacement item assumes the remaining warranty period of the original product.

Replacement is not available to you if the product you present for exchange is defaced, altered, in need of a repair not included in warranty service, damaged beyond repair, or if the product is not free of all legal obligations, restrictions, liens, and encumbrances.

Before you present this product for warranty service, remove all print cartridges, programs, data, and removable storage media (unless directed otherwise by Lexmark).

For further explanation of your warranty alternatives and the nearest Lexmark authorized servicer in your area contact Lexmark on the World Wide Web at **<http://support.lexmark.com>**.

Remote technical support is provided for this product throughout its warranty period. For products no longer covered by a Lexmark warranty, technical support may not be available or only be available for a fee.

Extent of limited warranty

Lexmark does not warrant uninterrupted or error-free operation of any product or the durability or longevity of prints produced by any product.

Warranty service does not include repair of failures caused by:

- Modification or unauthorized attachments
- Accidents, misuse, abuse or use inconsistent with Lexmark user's guides, manuals, instructions or guidance
- Unsuitable physical or operating environment
- Maintenance by anyone other than Lexmark or a Lexmark authorized servicer
- Operation of a product beyond the limit of its duty cycle
- Use of printing media outside of Lexmark specifications
- Refurbishment, repair, refilling or remanufacture by a third party of products, supplies or parts
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Index

Numerics

- 1565 Emulation error, load emulation option 248
- 2000-sheet tray
 - loading 76
- 200–282.yy paper jam 246
- 250-sheet tray (standard or optional)
 - loading 73
- 283 Staple jam 246
- 290–294.yy scanner jam 246
- 293 Replace all originals if restarting job 247
- 293.02 Flatbed Cover Open 247
- 30 Invalid refill, change cartridge 240
- 31 Replace defective cartridge 240
- 32 Cartridge part number unsupported by device 240
- 34 Short paper 240
- 35 Insufficient memory to support Resource Save feature 240
- 37 Insufficient memory for Flash Memory Defragment operation 241
- 37 Insufficient memory to collate job 241
- 37 Insufficient memory, some Held Jobs were deleted 241
- 37 Insufficient memory, some held jobs will not be restored 241
- 38 Memory full 241
- 39 Complex page, some data may not have printed 241
- 42.xy Cartridge region mismatch 241
- 50 PPDS font error 242
- 51 Defective flash detected 242
- 52 Not enough free space in flash memory for resources 242
- 53 Unformatted flash detected 242
- 54 Network <x> software error 242
- 54 Serial option <x> error 242
- 54 Standard network software error 243
- 55 Unsupported option in slot 243
- 550-sheet tray (standard or optional)
 - loading 73
- 56 Parallel port <x> disabled 243
- 56 Serial port <x> disabled 243
- 56 Standard parallel port disabled 243
- 56 Standard USB port disabled 244
- 56 USB port <x> disabled 244
- 57 Configuration change, held jobs were not restored 244
- 58 Too many bins attached 244
- 58 Too many disks installed 244
- 58 Too many flash options installed 245
- 58 Too many trays attached 245
- 59 Incompatible envelope feeder 245
- 59 Incompatible output bin <x> 245
- 59 Incompatible tray <x> 245
- 61 Remove defective disk 245
- 62 Disk full 246
- 63 Unformatted disk 246
- 80 Routine maintenance needed 246
- 841–846 Scanner Service Error 247
- 88 Cartridge low 246
- 88.yy Cartridge nearly low 246
- 88.yy Replace cartridge 246
- 900–999 Service <message> 247

Symbols

- “scan to computer” screen
 - options 127, 128, 129

A

- Active NIC menu 166
- address book, fax
 - using 114
- ADF
 - copying using 93
- ADF maintenance kit
 - ordering 255
- ADF pick assembly
 - ordering 256
- ADF separator roll
 - ordering 256

- Answering 231
- AppleTalk menu 171
- attaching cables 45

B

- Bin Setup menu 163
- brightness, adjusting 260
- Busy 231
- buttons, home screen 20
- buttons, printer control panel 19
- buttons, touch screen 22

C

- cables
 - Ethernet 45
 - USB 45
- Call complete 231
- calling Customer Support 290
- canceling a job
 - from Macintosh 137
 - from the printer control panel 136
 - from Windows 137
- card stock
 - loading 80
 - tips on using 132
- Change <src> to <x> 231
- charge rolls
 - ordering 255
- Check tray <x> connection 231
- checking an unresponsive printer 263
- checking an unresponsive scanner 269
- checking device status
 - on Embedded Web Server 259
- cleaning
 - exterior of the printer 249
 - scanner glass 249
- Close door or insert cartridge 232
- Close finisher side door 232
- collating copies 98
- Confidential print jobs 133
 - printing from Macintosh computer 134
 - printing from Windows 134
- Confidential Print menu 180

- configuration information
 - wireless network 49
 - configurations
 - printer 16
 - Configure MP menu 155
 - configuring
 - port settings 57
 - configuring the e-mail settings 107
 - Connect <x>bps 232
 - connecting fax
 - using RJ11 adapter 61
 - connecting the printer to
 - answering machine 67
 - computer modem 69
 - telephone 66
 - telephone wall jack in Germany 65
 - conserving supplies 252
 - contacting Customer Support 290
 - control panel, printer 19
 - copy quality
 - adjusting 98
 - improving 105
 - copy screen
 - options 102, 103
 - Copy Settings menu 191
 - copy troubleshooting
 - copier does not respond 267
 - partial document or photo copies 269
 - poor copy quality 267
 - poor scanned image quality 270
 - scanner unit does not close 267
 - copying
 - adding a date and time stamp 101
 - adding an overlay message 101
 - adjusting quality 98
 - canceling a copy job 102
 - collating copies 98
 - custom job (job build) 100
 - document containing mixed paper sizes 96
 - enlarging 97
 - from one size to another 95
 - improving copy quality 105
 - making transparencies 94
 - multiple pages on one sheet 99
 - on both sides of the paper (duplexing) 97
 - photos 94
 - placing separator sheets between copies 99
 - quick copy 93
 - reducing 97
 - selecting a tray 96
 - to letterhead 95
 - using the ADF 93
 - using the scanner glass (flatbed) 94
 - Custom Bin Names menu 162
 - Custom Names menu 161
 - custom paper type
 - assigning 84
 - Custom Scan Sizes menu 162
 - Custom Type <x>
 - changing name 84
 - Custom Types menu 161
- ## D
- date and time
 - setting 70
 - Default Source menu 152
 - Dialing 232
 - directory list, printing 136
 - Disk corrupted 232
 - Disk Full - Scan Job Canceled 232
 - Disk Wiping menu 181
 - display troubleshooting
 - display is blank 263
 - display shows only diamonds 263
 - display, printer control panel 19
 - adjusting brightness 260
 - documents, printing
 - from Macintosh 130
 - from Windows 130
 - duplexing 97
- ## E
- Embedded Web Server 259
 - administrator settings 259
 - checking device status 259
 - does not open 289
 - networking settings 259
 - setting up e-mail alerts 259
 - Embedded Web Server Administrator's Guide 259
 - emission
 - notices 293, 294, 295, 296
 - enlarging a copy 97
 - Envelope Enhance 156
 - envelopes
 - loading 80, 82
 - tips on using 131
 - Ethernet networking
 - Macintosh 54
 - Windows 54
 - Ethernet port 45
 - exterior of the printer
 - cleaning 249
 - e-mail
 - canceling 110
 - notice of low supply level 259
 - notice of paper jam 259
 - notice of paper needed 259
 - notice that different paper is needed 259
 - e-mail function
 - setting up 106
 - e-mail screen
 - advanced options 111
 - options 110, 111
 - E-mail Settings menu 205
 - e-mailing
 - adding message line 109
 - adding subject line 109
 - changing output file type 109
 - configuring the e-mail settings 107
 - creating shortcuts using the Embedded Web Server 107
 - creating shortcuts using the touch screen 107
 - setting up e-mail function 106
 - using shortcut numbers 108
 - using the address book 108
 - using the touch screen 108
- ## F
- factory defaults, restoring
 - printer control panel menus 261
 - fax card
 - installing 43
 - Fax failed 232
 - Fax memory full 232
 - Fax Mode (Analog Fax Setup) menu 196
 - Fax Mode (Fax Server Setup) menu 204
 - Fax partition inoperative. Contact system administrator. 233
 - fax quality, improving 119

- fax screen
 - advanced options 118
 - options 117, 118
- Fax server 'To Format' not set up. Contact system administrator. 233
- Fax Station Name not set up 233
- Fax Station Number not set up 233
- fax troubleshooting
 - blocking junk faxes 116
 - caller ID is not shown 271
 - can receive but not send faxes 274
 - can send but not receive faxes 273
 - cannot send or receive a fax 271
 - received fax has poor print quality 274
- faxing
 - canceling a fax job 117
 - changing resolution 115
 - choosing a fax connection 61
 - creating shortcuts using the Embedded Web Server 113
 - creating shortcuts using the touch screen 114
 - forwarding faxes 120
 - holding faxes 119
 - improving fax quality 119
 - making a fax lighter or darker 115
 - sending a fax at a scheduled time 116
 - sending using the computer 113
 - sending using the printer control panel 112
 - setting the date and time 70
 - setting the outgoing fax name and number 70
 - turning Daylight Saving Time on 71
 - using shortcuts 114
 - using the address book 114
 - viewing a fax log 116
- FCC notices 293, 297
- fiber optic
 - network setup 54
- finding information
 - customer support 15
 - publications 15
- Finishing menu 220
- firmware card
 - installing 30

- flash drive 135
- Flash Drive menu 213
- flash memory card
 - installing 30
 - troubleshooting 277
- Flushing buffer 233
- forwarding faxes 120
- FTP
 - address book 122
- FTP quality, improving 125
- FTP screen
 - advanced options 124
 - options 123, 124
- FTP Settings menu 210
- fuser
 - ordering 255

G

- guidelines
 - card stock 132
 - envelopes 131
 - labels 132
 - letterhead 130
 - transparencies 131

H

- hard disk with adapter
 - troubleshooting 277
- held jobs 133
 - printing from Macintosh computer 134
 - printing from Windows 134
- Help menu 229
- holding faxes 119
- home screen
 - buttons 20
- HTML menu 228

I

- Image menu 229
- Insert staple cartridge 233
- Insert Tray <x> 233
- Install bin <x> 234
- Install envelope feeder 234
- Install tray <x> 234
- installation
 - wireless network 50, 51
- installing
 - options in driver 48
 - printer software 47

- installing printer software
 - adding options 48
- Internal Solutions Port
 - installing 33
 - troubleshooting 277
- Internal Solutions Port, network
 - changing port settings 57
- Invalid PIN 234
- IPv6 menu 170

J

- jams
 - avoiding 139
 - locating doors and trays 140
 - locations 140
 - numbers 140
- jams, clearing
 - 200 140
 - 201 140
 - 202 142
 - 230–239 143
 - 240–249 144
 - 250 145
 - 260 146
 - 270–279 146
 - 280–289 paper jams 146
 - 283 staple jams 147
 - 290–294 149
 - stapler 147
- job interrupt 101
- Job stored for delayed transmission 234

L

- labels
 - tips on using 132
- letterhead
 - copying to 95
 - loading, 2000-sheet tray 76
 - loading, multipurpose feeder 80
 - loading, trays 73
 - tips on using 130
- LexLink menu 173
- light, indicator 19
- Line busy 234
- linking trays 83
- Load <src> with <x> 235
- Load manual feeder with <x> 235
- Load staples 235
- loading
 - 2000-sheet tray 76

- 250-sheet tray (standard or optional) 73
- 550-sheet tray (standard or optional) 73
- card stock 80
- envelopes 80, 82
- letterhead in 2000-sheet tray 76
- letterhead in multipurpose feeder 80
- letterhead in trays 73
- multipurpose feeder 80
- transparencies 80

M

- Macintosh
 - wireless network installation 51
- maintenance kit
 - ordering 254
- memory card
 - installing 29
 - troubleshooting 277
- Memory full, cannot print
- faxes 235
- menu settings page
 - printing 46
- menus
 - Active NIC 166
 - AppleTalk 171
 - Bin Setup 163
 - Confidential Print 180
 - Configure MP 155
 - Copy Settings 191
 - Custom Bin Names 162
 - Custom Names 161
 - Custom Scan Sizes 162
 - Custom Types 161
 - Default Source 152
 - diagram of 151
 - Disk Wiping 181
 - Envelope Enhance 156
 - E-mail Settings 205
 - Fax Mode (Analog Fax Setup) 196
 - Fax Mode (Fax Server Setup) 204
 - Finishing 220
 - Flash Drive 213
 - FTP Settings 210
 - Help 229
 - HTML 228
 - Image 229
 - IPv6 170
 - LexLink 173
 - Miscellaneous 179
 - NetWare 172
 - Network <x> 166
 - Network Card 169
 - Network Reports 168
 - Paper Loading 160
 - Paper Size/Type 152
 - Paper Texture 156
 - Paper Weight 158
 - Parallel <x> menu 175
 - PCL Emul 225
 - PDF 224
 - PostScript 225
 - Quality 222
 - Reports 164
 - Security Audit Log 182
 - Serial <x> 177
 - Set Date/Time 183
 - Settings 183
 - Setup 218
 - SMTP Setup menu 168
 - Standard Network 166
 - Standard USB 173
 - Substitute Size 156
 - TCP/IP 169
 - Universal Setup 162
 - Utilities 223
 - Wireless 171
 - XPS 229
- Miscellaneous menu 179
- moving the printer 256, 257
- multiple pages on one sheet 99
- multipurpose feeder
 - loading 80

N

- NetWare menu 172
- Network 235
- Network <x> 235
- Network <x> menu 166
- Network Card menu 169
- Network Reports menu 168
- network setup page 47
- Networking Guide 259
- No analog phone line connected to modem, fax is disabled. 235
- No answer 236
- No dial tone 236
- noise emission levels 296
- notices 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302

O

- options
 - fax card 26, 43
 - firmware card 30
 - firmware cards 26
 - flash memory card 30
 - internal 26
 - Internal Solutions Port 33
 - memory card 29
 - memory cards 26
 - networking 26
 - ports 26
 - printer hard disk 39
- options, touch-screen
 - copy 102, 103
 - e-mail 110, 111
 - fax 117, 118
 - FTP 123, 124
 - scan to computer 127, 128, 129
- ordering
 - ADF maintenance kit 255
 - ADF pick assembly 256
 - ADF separator roll 256
 - charge rolls 255
 - fuser 255
 - maintenance kit 254
 - pick rollers 255
 - staple cartridges 256
 - transfer roller 255
- ordering supplies 253
- output file type
 - changing 109

P

- paper
 - characteristics 86
 - letterhead 87
 - preprinted forms 87
 - recycled 88
 - selecting 87
 - selecting weight 158
 - setting size 72
 - setting type 72
 - storing 88
 - unacceptable 87
 - Universal Paper Size 162
 - Universal size setting 72
- paper feed troubleshooting
 - message remains after jam is cleared 278

- paper jams
 - avoiding 139
- Paper Loading menu 160
- Paper Size/Type menu 152
- paper sizes
 - supported by the printer 89
- Paper Texture menu 156
- paper type
 - custom 84
- paper types
 - duplex support 91
 - supported by finisher 91
 - supported by printer 91
 - where to load 91
- Paper Weight menu 158
- paper weights
 - supported by finisher 91
- Parallel <x> menu 175
- PCL Emul menu 225
- PDF menu 224
- photos
 - copying 94
- pick rollers
 - ordering 255
- port settings
 - configuring 57
- PostScript menu 225
- Power Saver
 - adjusting 261
- print job
 - canceling from Macintosh 137
 - canceling from Windows 137
- print quality
 - cleaning the scanner glass 249
- print quality test pages, printing 136
- print quality troubleshooting
 - blank pages 279
 - characters have jagged edges 280
 - clipped images 280
 - ghost images 280
 - gray background 281
 - poor transparency quality 289
 - print irregularities 282
 - print is too dark 286
 - print is too light 285
 - print quality test pages 279
 - repeating defects 283
 - skewed print 284
 - solid black streaks 284
 - solid color pages 287
 - solid white streaks 284
 - streaked vertical lines 287
 - toner fog or background shading 288
 - toner rubs off 288
 - toner specks 289
- print troubleshooting
 - error reading USB drive 263
 - held jobs do not print 264
 - incorrect characters print 265
 - incorrect margins 281
 - jammed page does not reprint 278
 - job prints from wrong tray 265
 - job prints on wrong paper 265
 - job takes longer than expected 265
 - jobs do not print 264
 - Large jobs do not collate 266
 - multiple-language PDFs do not print 263
 - paper curl 282
 - paper frequently jams 278
 - tray linking does not work 266
 - unexpected page breaks occur 266
- printer
 - configurations 16
 - minimum clearances 16, 257
 - models 16
 - moving 256, 257
 - selecting a location 16
 - setting up in new location 257
 - shipping 258
- printer control panel 19
 - factory defaults, restoring 261
- printer hard disk
 - installing 39
- printer messages
 - 1565 Emulation error, load emulation option 248
 - 200–282.yy paper jam 246
 - 283 Staple jam 246
 - 290–294.yy scanner jam 246
 - 293 Replace all originals if restarting job 247
 - 293.02 Flatbed Cover Open 247
 - 30 Invalid refill, change cartridge 240
 - 31 Replace defective cartridge 240
- 32 Cartridge part number unsupported by device 240
- 34 Short paper 240
- 35 Insufficient memory to support Resource Save feature 240
- 37 Insufficient memory for Flash Memory Defragment operation 241
- 37 Insufficient memory to collate job 241
- 37 Insufficient memory, some Held Jobs were deleted 241
- 37 Insufficient memory, some held jobs will not be restored 241
- 38 Memory full 241
- 39 Complex page, some data may not have printed 241
- 42.xy Cartridge region mismatch 241
- 50 PPDS font error 242
- 51 Defective flash detected 242
- 52 Not enough free space in flash memory for resources 242
- 53 Unformatted flash detected 242
- 54 Network <x> software error 242
- 54 Serial option <x> error 242
- 54 Standard network software error 243
- 55 Unsupported option in slot 243
- 56 Parallel port <x> disabled 243
- 56 Serial port <x> disabled 243
- 56 Standard parallel port disabled 243
- 56 Standard USB port disabled 244
- 56 USB port <x> disabled 244
- 57 Configuration change, held jobs were not restored 244
- 58 Too many bins attached 244
- 58 Too many disks installed 244
- 58 Too many flash options installed 245
- 58 Too many trays attached 245
- 59 Incompatible envelope feeder 245
- 59 Incompatible output bin <x> 245
- 59 Incompatible tray <x> 245
- 61 Remove defective disk 245

- 62 Disk full 246
- 63 Unformatted disk 246
- 80 Routine maintenance needed 246
- 841-846 Scanner Service Error 247
- 88 Cartridge low 246
- 88.yy Cartridge nearly low 246
- 88.yy Replace cartridge 246
- 900-999 Service <message> 247
- Answering 231
- Busy 231
- Call complete 231
- Change <src> to <x> 231
- Check tray <x> connection 231
- Close door or insert cartridge 232
- Close finisher side door 232
- Connect <x>bps 232
- Dialing 232
- Disk corrupted 232
- Disk Full - Scan Job Canceled 232
- Fax failed 232
- Fax memory full 232
- Fax partition inoperative. Contact system administrator. 233
- Fax server 'To Format' not set up. Contact system administrator. 233
- Fax Station Name not set up 233
- Fax Station Number not set up 233
- Flushing buffer 233
- Insert staple cartridge 233
- Insert Tray <x> 233
- Install bin <x> 234
- Install envelope feeder 234
- Install tray <x> 234
- Invalid PIN 234
- Job stored for delayed transmission 234
- Line busy 234
- Load <src>with <x> 235
- Load manual feeder with <x> 235
- Load staples 235
- Memory full, cannot print faxes 235
- Network 235
- Network <x> 235
- No analog phone line connected to modem, fax is disabled. 235
- No answer 236

- No dial tone 236
- Queued for sending 236
- Ready 236
- Reattach bin <x> 236
- Reattach bin <x> - <y> 236
- Reattach envelope feeder 237
- Receive complete 237
- Receiving page <n> 237
- Remove packaging material, check <x> 237
- Remove paper from <linked bin set name> 237
- Remove paper from all bins 238
- Remove paper from bin <x> 238
- Remove paper from standard output bin 238
- Replace all originals if restarting job. 238
- Replace wiper 238
- Restore Held Jobs? 238
- Scan Document Too Long 239
- Scanner ADF Cover Open 239
- Scanner Disabled 247
- Scanner Jam Access Cover Open 239
- Securely clearing disk space 239
- Sending page <n> 239
- Serial <x> 239
- Set clock 239
- SMTP server not set up. Contact system administrator. 239
- Some held jobs were not restored 239
- System busy, preparing resources for job. 239
- System busy, preparing resources for job. Deleting held job(s). 239
- Unsupported disk 239
- Unsupported USB device, please remove 240
- Unsupported USB hub, please remove 240
- USB/USB <x> 240
- Waiting for redial 240
- printer options troubleshooting
- 2000-sheet tray 276
- 4-bin mailbox 277
- envelope feeder 276
- flash memory card 277
- hard disk with adapter 277
- high capacity output expander 277

- Internal Solutions Port 277
- memory card 277
- option not working 275
- paper trays 275
- StapleSmart finisher 277
- printer problems, solving
- basic 263
- printing
- directory list 136
- from flash drive 135
- from Macintosh 130
- from Windows 130
- installing printer software 47
- menu settings page 46
- network setup page 47
- print quality test pages 136
- printing confidential and other held jobs
- from Macintosh computer 134
- from Windows 134

Q

- Quality menu 222
- Queued for sending 236

R

- Ready 236
- Reattach bin <x> 236
- Reattach bin <x> - <y> 236
- Reattach envelope feeder 237
- Receive complete 237
- Receiving page <n> 237
- recycled paper
- using 88
- recycling
- Lexmark products 256
- WEEE statement 297
- reducing a copy 97
- Remove packaging material, check <x> 237
- Remove paper from <linked bin set name> 237
- Remove paper from all bins 238
- Remove paper from bin <x> 238
- Remove paper from standard output bin 238
- Repeat print jobs 133
- printing from Macintosh computer 134
- printing from Windows 134

- Replace all originals if restarting job. 238
- Replace wiper 238
- reports
 - viewing 260
- Reports menu 164
- Reserve print jobs 133
 - printing from Macintosh computer 134
 - printing from Windows 134
- resolution, fax
 - changing 115
- Restore Held Jobs? 238
- RJ11 adapter, using 61

S

- safety information 13, 14
- Scan Document Too Long 239
- scan quality, improving 129
- scan troubleshooting
 - cannot scan from a computer 271
 - partial document or photo scans 270
 - scan was not successful 269
 - scanner unit does not close 267
 - scanning takes too long or freezes the computer 270
- scanner
 - Automatic Document Feeder (ADF) 18
 - functions 17
 - registration 250
 - scanner glass 18
- Scanner ADF Cover Open 239
- Scanner Disabled 247
- scanner glass
 - cleaning 249
- scanner glass (flatbed)
 - copying using 94
- Scanner Jam Access Cover Open 239
- scanning to a computer 126
 - improving scan quality 129
- scanning to a flash drive 127
- scanning to an FTP address
 - creating shortcuts using the computer 122
 - creating shortcuts using the touch screen 123
- improving FTP quality 125
- using shortcut numbers 122

- using the address book 122
- using the keypad 121
- Securely clearing disk space 239
- Security Audit Log menu 182
- Sending page <n> 239
- Serial <x> 239
- Serial <x> menu 177
- serial port 59
- serial printing
 - setting up 59
- Set clock 239
- Set Date/Time menu 183
- setting
 - paper size 72
 - paper type 72
 - TCP/IP address 169
 - Universal Paper Size 72
- setting up
 - serial printing 59
- setting up the printer
 - on a wired network (Macintosh) 54
 - on a wired network (Windows) 54
- Settings menu 183
- Setup menu 218
- shipping the printer 258
- shortcuts, creating
 - e-mail 107
 - fax destination 113, 114
 - FTP destination 122, 123
- SMTP server not set up. Contact system administrator. 239
- SMTP Setup menu 168
- Some held jobs were not restored 239
- Standard Network menu 166
- standard tray
 - loading 73
- Standard USB menu 173
- staple cartridges
 - ordering 256
- status of supplies, checking 252
- storing
 - paper 88
 - supplies 252
- subject and message information
 - adding to e-mail 109
- Substitute Size menu 156
- supplies
 - conserving 252
 - status of 252

- storing 252
- supplies, ordering 253
 - ADF maintenance kit 255
 - ADF pick assembly 256
 - ADF separator roll 256
 - charge rolls 255
 - fuser 255
 - maintenance kit 254
 - pick rollers 255
 - staple cartridges 256
 - transfer roller 255
- system board
 - accessing 27
- System busy, preparing resources for job. 239
- System busy, preparing resources for job. Deleting held job(s). 239

T

- TCP/IP menu 169
- telecommunication
 - notices 297, 298, 299, 300
- touch screen
 - buttons 22
- transfer roller
 - ordering 255
- transparencies
 - loading 80
 - making 94
 - tips on using 131
- tray linking 84
- tray unlinking 84
- trays
 - linking 83, 84
 - unlinking 84
- troubleshooting
 - checking an unresponsive printer 263
 - checking an unresponsive scanner 269
 - contacting Customer Support 290
 - solving basic printer problems 263
- troubleshooting, copy
 - copier does not respond 267
 - partial document or photo copies 269
 - poor copy quality 267
 - poor scanned image quality 270
 - scanner unit does not close 267

- troubleshooting, display
 - display is blank 263
 - display shows only diamonds 263
- troubleshooting, fax
 - blocking junk faxes 116
 - caller ID is not shown 271
 - can receive but not send faxes 274
 - can send but not receive faxes 273
 - cannot send or receive a fax 271
 - received fax has poor print quality 274
- troubleshooting, paper feed
 - message remains after jam is cleared 278
- troubleshooting, print
 - error reading USB drive 263
 - held jobs do not print 264
 - incorrect characters print 265
 - incorrect margins 281
 - jammed page does not reprint 278
 - job prints from wrong tray 265
 - job prints on wrong paper 265
 - job takes longer than expected 265
 - jobs do not print 264
 - Large jobs do not collate 266
 - multiple-language PDFs do not print 263
 - paper curl 282
 - paper frequently jams 278
 - tray linking does not work 266
 - unexpected page breaks occur 266
- troubleshooting, print quality
 - blank pages 279
 - characters have jagged edges 280
 - clipped images 280
 - ghost images 280
 - gray background 281
 - poor transparency quality 289
 - print irregularities 282
 - print is too dark 286
 - print is too light 285
 - print quality test pages 279
 - repeating defects 283
 - skewed print 284
 - solid black streaks 284

- solid color pages 287
- solid white streaks 284
- streaked vertical lines 287
- toner fog or background shading 288
- toner rubs off 288
- toner specks 289
- troubleshooting, printer options
 - 2000-sheet tray 276
 - 4-bin mailbox 277
 - envelope feeder 276
 - flash memory card 277
 - hard disk with adapter 277
 - high capacity output expander 277
 - Internal Solutions Port 277
 - memory card 277
 - option not working 275
 - paper trays 275
 - StapleSmart finisher 277
- troubleshooting, scan
 - cannot scan from a computer 271
 - partial document or photo scans 270
 - scan was not successful 269
 - scanner unit does not close 267
 - scanning takes too long or freezes the computer 270

U

- Universal Paper Size
 - setting 72
- Universal Setup menu 162
- unlinking trays 84
- Unsupported disk 239
- Unsupported USB device, please remove 240
- Unsupported USB hub, please remove 240
- USB port 45
- USB/USB <x> 240
- using RJ11 adapter 61
- Utilities menu 223

V

- Verify print jobs 133
 - printing from Macintosh computer 134
 - printing from Windows 134

- viewing
 - reports 260

W

- Waiting for redial 240
- Windows
 - wireless network installation 50
- wired network setup
 - using Windows 54
- wired networking
 - using Macintosh 54
- Wireless menu 171
- wireless network
 - configuration information 49
 - installation, using Macintosh 51
 - installation, using Windows 50

X

- XPS menu 229