C935 Series

User's Guide

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Safety information

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

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

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 power supply cord or telephone, during a lightning storm.

CAUTION—POTENTIAL INJURY: The printer weighs 201 lbs (91.2 kg), and requires at least four people or a properly rated mechanical handling system to lift it safely.

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

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 uses a laser.

CAUTION—POTENTIAL INJURY: 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.

This symbol indicates the presence of a hot surface or component.

CAUTION—HOT SURFACE: To reduce the risk of injury from a hot component, allow the surface to cool before touching it.

This product uses a ground fault circuit interrupter (GFCI). Monthly testing of the GFCI is recommended.

CAUTION—POTENTIAL INJURY: If you are installing memory or option cards sometime after setting up the printer, 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, turn them off as well and unplug any cables going to the printer.

CAUTION—POTENTIAL INJURY: 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, turn them off as well and unplug any cables going into the printer.

CAUTION—POTENTIAL INJURY: If you are installing a memory card after setting up the printer, turn the printer off, and unplug the power cord from the wall outlet before continuing.

CAUTION—POTENTIAL INJURY: If installing a flash memory or firmware card after setting up the printer, turn the printer off, and unplug the power cord from the wall outlet before continuing.

CAUTION—POTENTIAL INJURY: If installing a printer hard disk after setting up the printer, turn the printer off, and unplug the power cord from the wall outlet before continuing.

CAUTION—POTENTIAL INJURY: 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.

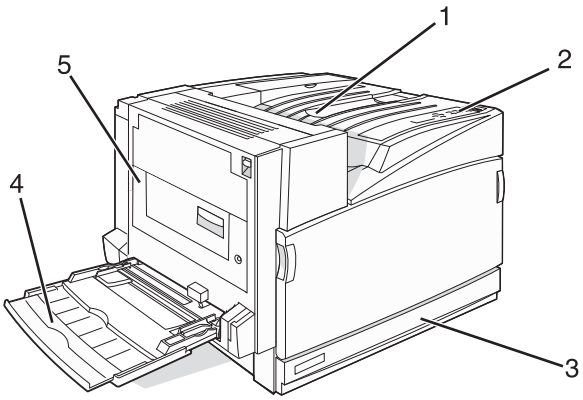
CAUTION—POTENTIAL INJURY: The printer weighs 91.2 kg (201 lb); therefore, it requires at least four people or a properly rated mechanical handling system to lift it safely. Use the handholds on the sides of the printer to lift it, and make sure your fingers are not under the printer when you set it down. Disconnect all cords and cables from the printer before moving it.

Learning about the printer

Printer configurations

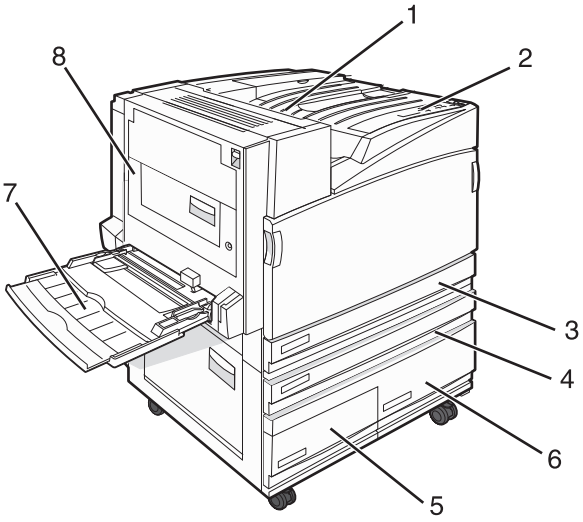
All printer models have standard network capability.

Basic model

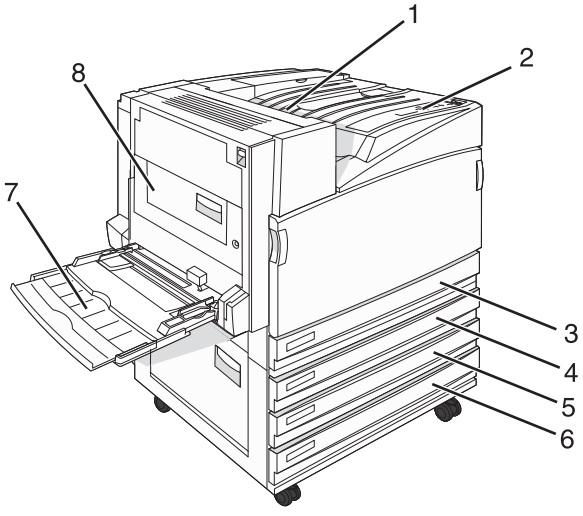


1	Standard exit bin
2	Control panel
3	Standard 520-sheet tray (Tray 1)
4	Multipurpose feeder
5	Duplex unit

Configured models



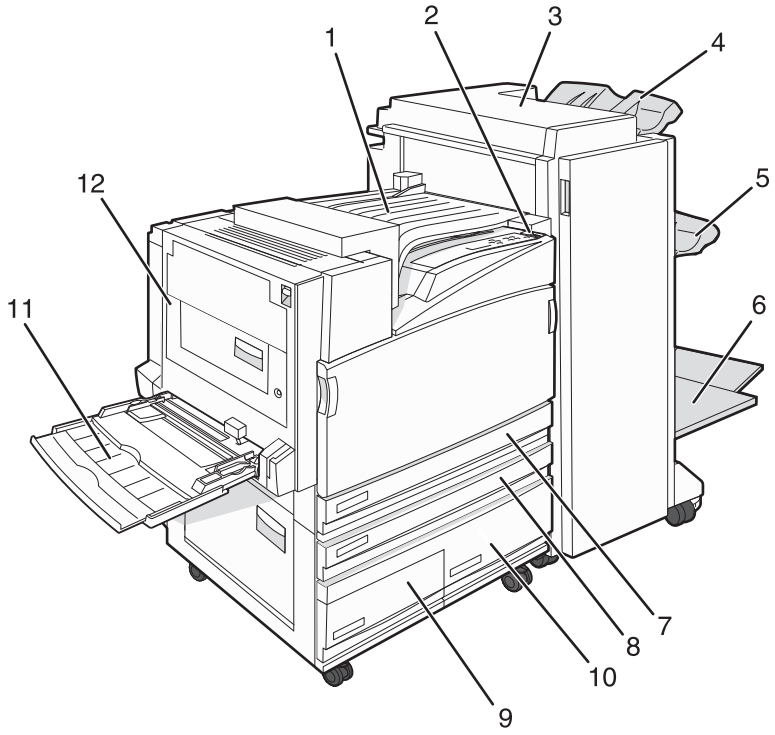
1	Standard exit bin
2	Control panel
3	Standard 520-sheet tray (Tray 1)
4–6	The High capacity feeder holds 2520 sheets and includes: • **4**—520-sheet tray (Tray 2) • **5**—867-sheet tray (Tray 3) • **6**—1133-sheet tray (Tray 4)
7	Multipurpose feeder
8	Duplex unit



1	Standard exit bin
2	Control panel

3	Standard 520-sheet tray (Tray 1)
4-6	The Tandem tray module (TTM) holds 1560 sheets and includes: • **4**—520-sheet tray (Tray 2) • **5**—520-sheet tray (Tray 3) • **6**—520-sheet tray (Tray 4)
7	Multipurpose feeder
8	Duplex unit

Fully configured model

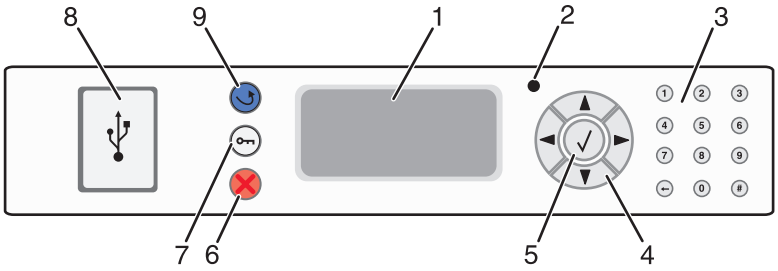


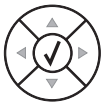
1	Horizontal transport unit (HTU)
2	Control panel
3	Finisher
4	Finisher standard bin
5	Finisher bin 1
6	Finisher bin 2 (booklet-maker)
7	Standard 520-sheet tray (Tray 1)
8–10	The High capacity feeder includes: • **8**—520-sheet tray (Tray 2) • **9**—867-sheet tray (Tray 3) • **10**—1133-sheet tray (Tray 4)
11	Multipurpose feeder

12	Duplex unit

Note: The finisher shown above is the booklet finisher. The standard finisher is not shown.

Understanding the control panel



Control panel item		Description
1	Display	Shows messages and pictures that communicate the status of the printer
2	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. • **Solid red**—Operator intervention is needed.
3	Keypad	Enter numbers or symbols on the display.
4	Navigation buttons 	Press ▲ or ▼ to scroll through menu lists. Press ◀ or ▶ to scroll through values or text that roll to another screen.
5	Select	Press to initiate action on a menu item.
6	Stop	Stops all printer activity A list of options is offered once **Stopped** appears on the display.
7	Menu	Opens the menu index **Note:** The menus are available only when the printer is in the **Ready** state.

Control panel item		Description
8	USB Direct interface	Use this port to connect a USB flash memory device to the printer. You can print from the connected device.
9	Back	Returns the display to the previous screen

Installing options

Installing internal options

CAUTION—SHOCK HAZARD: If you are installing memory or option cards sometime after setting up the printer, 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, turn them off as well and unplug any cables going to 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 options

Memory cards

- Printer memory
- Flash memory
- Fonts

Firmware cards

- Bar Code and Forms
- IPDS and SCS/TNe
- PrintCryption™
- PRESCRIBE

Other internal options

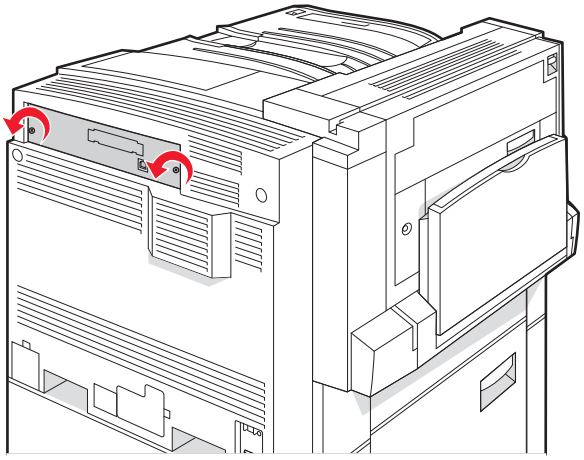
- Printer hard disk
- RS-232 serial interface card
- Parallel 1284-B interface card
- MarkNet™ N8000 Series Internal Print Servers

Accessing the system board to install internal options

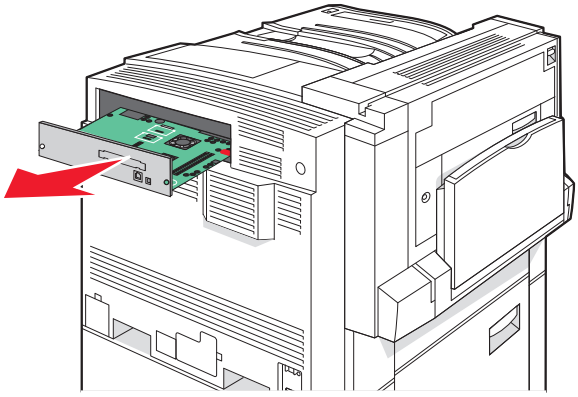
CAUTION—SHOCK HAZARD: Turn the printer off, and unplug the power cord from the wall outlet before continuing. If you have any other devices attached to the printer, turn them off as well and unplug any cables going into the printer.

Note: This operation requires a #2 Phillips screwdriver.

1. Remove the cover and system board.
   a. Turn the screws on the cover counterclockwise, and then remove them.

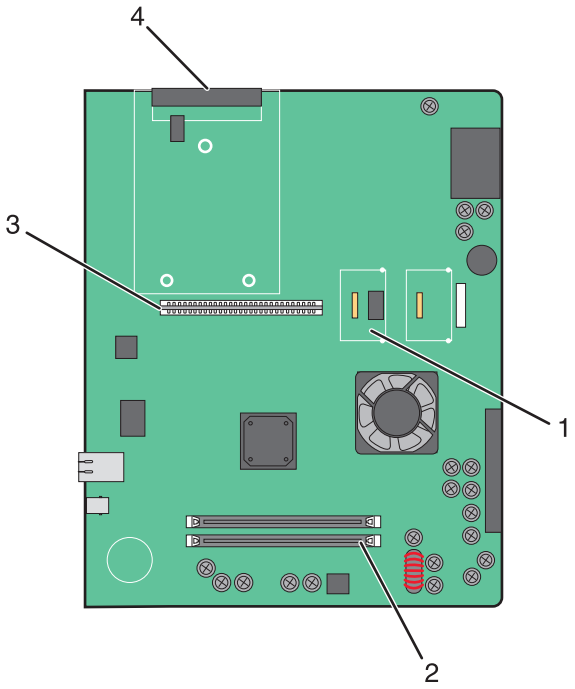


   b. Gently pull the cover and system board away from the printer, and then remove it.



2. Use the illustration below to locate the appropriate connector.

   Warning—Potential Damage: System board electrical 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	Internal print server connector
4	Hard disk connector

Installing a memory card

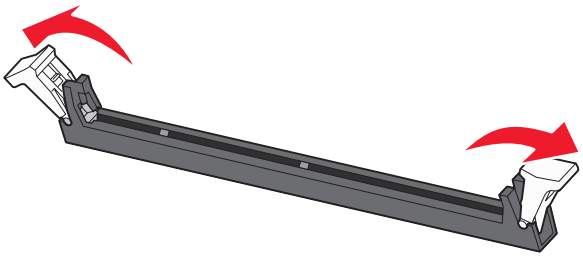
CAUTION—SHOCK HAZARD: If you are installing a memory card after setting up the printer, turn the printer off, and unplug the power cord from the wall outlet before continuing.

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

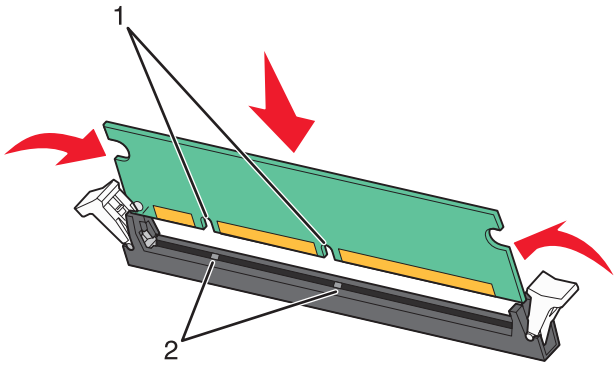
An optional memory card can be purchased separately and attached to the system board. To install the memory card:

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 Reinstall the system board.

Installing a flash memory or firmware card

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 installing a flash memory or firmware card after setting up the printer, turn the printer off, and unplug the power cord from the wall outlet before continuing.

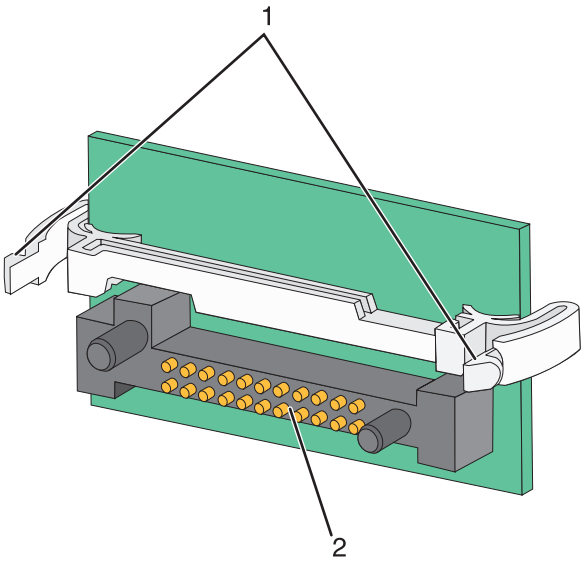
Warning—Potential Damage: System board electrical components are easily damaged by static electricity. Touch something metal on the printer before touching any system board electronic components or connectors.

1 Access the system board.

2 Unpack the card.

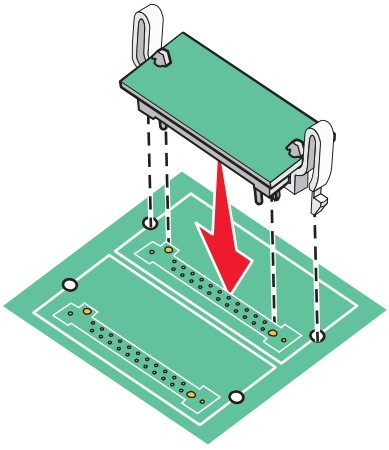
Note: Avoid touching the connection points along the edge of the card.

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 Reinstall the system board.

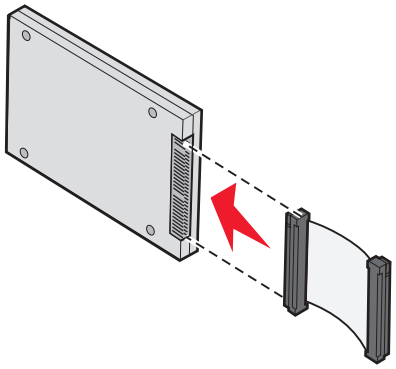
Installing a printer hard disk

CAUTION—SHOCK HAZARD: If installing a printer hard disk after setting up the printer, turn the printer off, and unplug the power cord from the wall outlet before continuing.

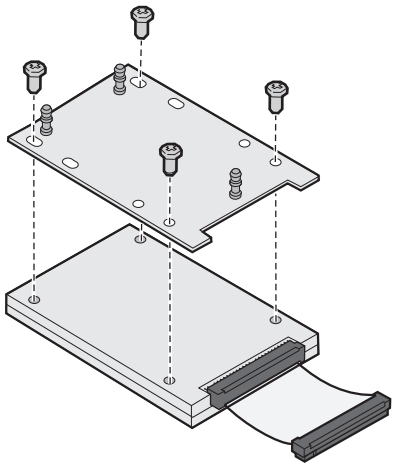
Warning—Potential Damage: System board electrical components and hard disks are easily damaged by static electricity. Touch something metal on the printer before touching any system board electronic components, connectors, or the hard disk.

Note: A #2 Phillips screwdriver is needed to attach the hard disk to the mounting plate.

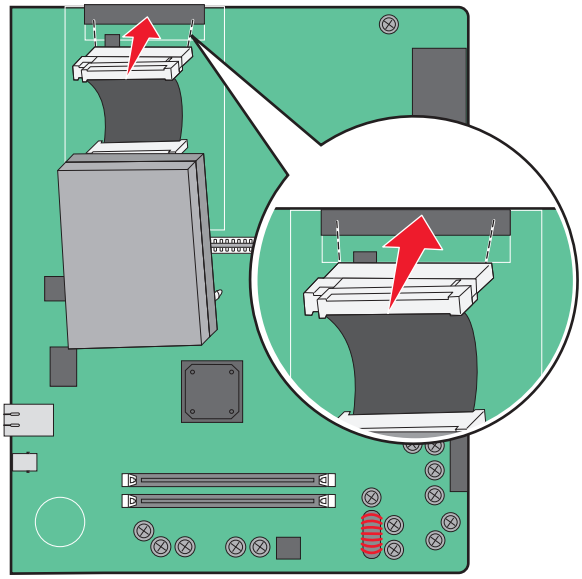
1. Access the system board.
2. Remove the mounting plate, hard disk, ribbon cable, and attachment screws from the package.
3. Attach the ribbon cable to the hard disk.



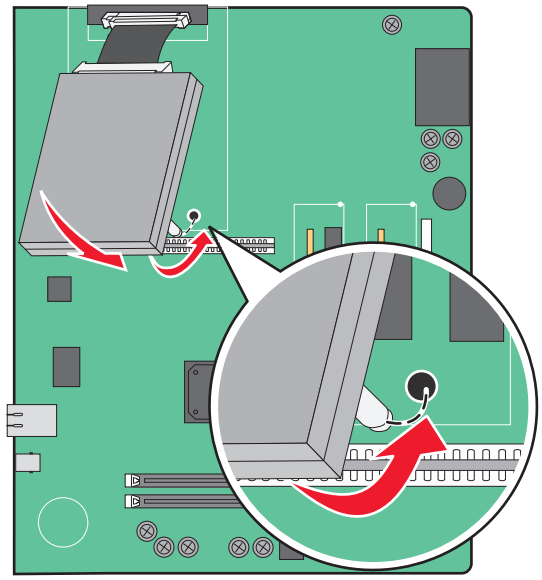
4. Attach the mounting plate to the hard disk with the screws.



5 Press the ribbon cable connector into the hard disk connector on the system board.



6 Flip the hard disk over, and then press the three posts on the mounting plate into the holes on the system board. The hard disk *snaps* into place.



7 Reinstall the system board.

Installing an internal print server or port interface card

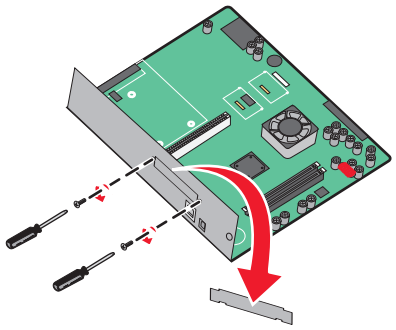
CAUTION—SHOCK HAZARD: Turn the printer off, and unplug the power cord from the wall outlet before continuing. If you have any other devices attached to the printer, turn them off as well and unplug any cables going into the printer.

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

Note: A #2 Phillips screwdriver is needed to install an internal print server or port interface card.

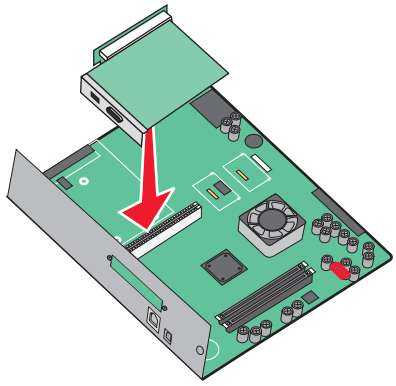
An internal print server allows connection from the printer to the *local area network* (LAN). An optional port interface card expands the ways the printer can connect to a computer or external print server.

1. Access the system board.
2. Unpack the internal print server or port interface card.
3. Remove the metal plate on the system board tray that covers the connector slot and save the metal plate.

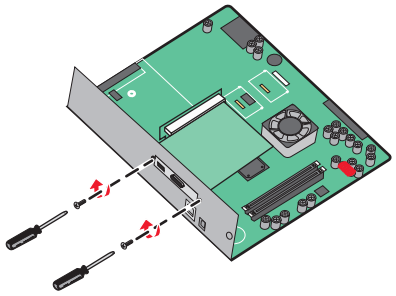


4. Align the connector on the internal print server or port interface card with the connector on the system board.

   Note: The cable connectors on the side of the optional card must fit through the opening in the faceplate.



5. Push the internal print server or port interface card firmly into the card connector on the system board.
6. Insert a screw into the hole on the right side of the connector slot. Gently tighten the screw to secure the card to the system board tray.



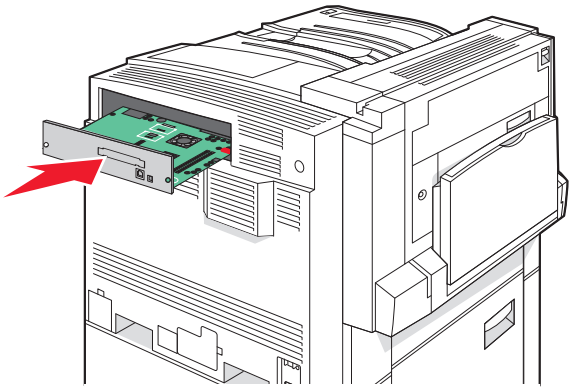
7. Reinstall the system board.

Reinstalling the system board

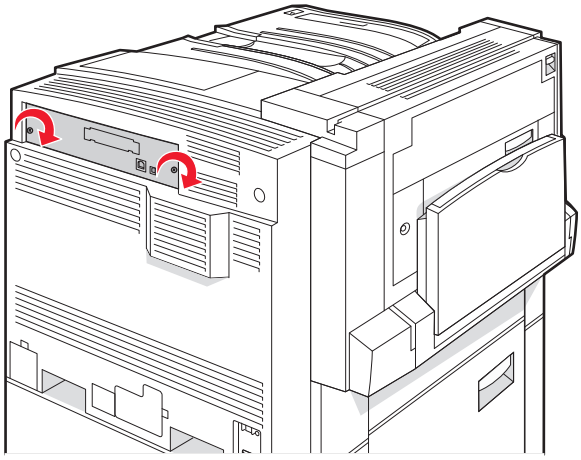
Warning—Potential Damage: System board electrical components are easily damaged by static electricity. Touch something metal on the printer before touching any system board electronic components or connectors.

Note: This operation requires a #2 Phillips screwdriver.

1 Gently insert the system board into the printer.



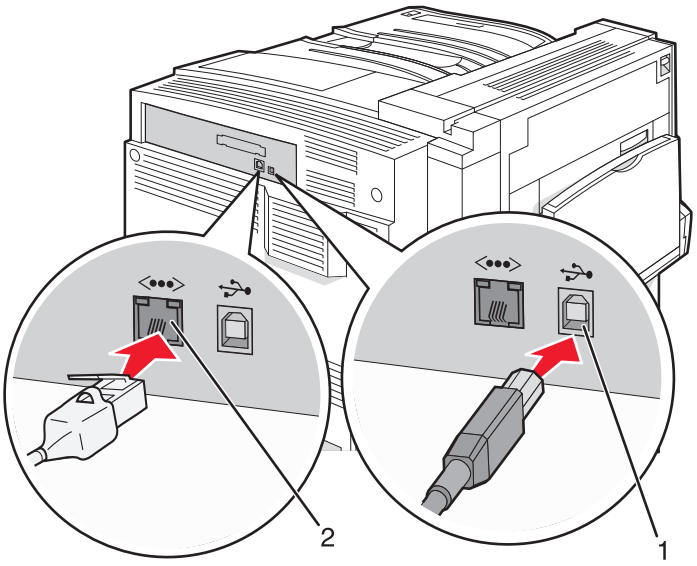
2 Replace the cover screws, and then turn them clockwise.



3 Tighten the screws firmly.

Attaching cables

Connect the printer to the computer using a USB cable or Ethernet cable. A USB port requires a USB cable. Be sure to match the USB symbol on the cable with the USB symbol on the printer. Match the appropriate Ethernet cable to the Ethernet port.



1	USB port
2	Ethernet port

Loading paper and specialty media

This section explains how to load the 520-, 867-, and 1133-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. From the control panel, press .
3. Press ▼ repeatedly until √ **Paper Menu** appears, and then press .
4. Press ▼ repeatedly until √ **Paper Size/Type** appears, and then press .
5. Press ▼ repeatedly until the correct tray appears, and then press .
6. Press ▼ repeatedly until √ appears next to the correct size, and then press .
7. Press ◀ or ▶ repeatedly until the correct Paper Type setting appears, and then press .
   Submitting Selection appears.

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 (inches or millimeters)
- Portrait Height and Portrait Width
- Feed Direction

Note: The smallest supported Universal size is 100 x 148 mm (3.9 x 5.8 in.); the largest is 305 x 483 mm (11.7 x 19 in.).

Specify a unit of measurement

1. Make sure the printer is on and **Ready** appears.
2. From the control panel, press .
3. Press ▼ repeatedly until √ **Paper Menu** appears, and then press .
4. Press ▼ repeatedly until √ **Universal Setup** appears, and then press .

5 Press ▼ repeatedly until **Units of Measure** appears, and then press ✓.

6 Press ▼ repeatedly until √ appears next to the correct unit of measure, and then press ✓.

Submitting Selection appears, followed by the **Universal Setup** menu.

Specify the paper height and width

Defining a specific height and width measurement for the Universal paper size (in the portrait orientation) allows the printer to support the size, including support for standard features such as duplex printing and printing multiple pages on one sheet.

1 From the Universal Setup menu, press ▼ repeatedly until **Portrait Width** or **Portrait Height** appears, and then press ✓.

Note: Select **Portrait Height** to adjust the paper height setting or **Paper Width** to adjust the paper width setting.

2 Press ◀ to decrease the setting or ▶ to increase the setting, and then press ✓.

Submitting Selection appears, followed by the **Universal Setup** menu.

Specify a feed direction

Short Edge is the factory default setting for feed direction for Universal paper settings. The Feed Direction menu will not appear from the Universal Setup menu unless Long Edge is an available setting. If necessary, specify whether the short or long edge of the paper will enter the printer first.

1 From the Universal Setup menu, press ▼ repeatedly until **Feed Direction** appears, and then press ✓.

2 Press ▼ repeatedly until √ appears next to the correct feed direction, and then press ✓.

Submitting Selection appears.

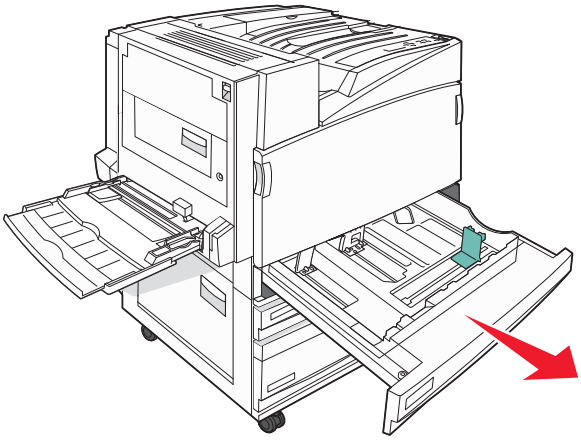
Loading the 520-sheet trays

The Size Sensing setting is only available for A5- and statement-size paper.

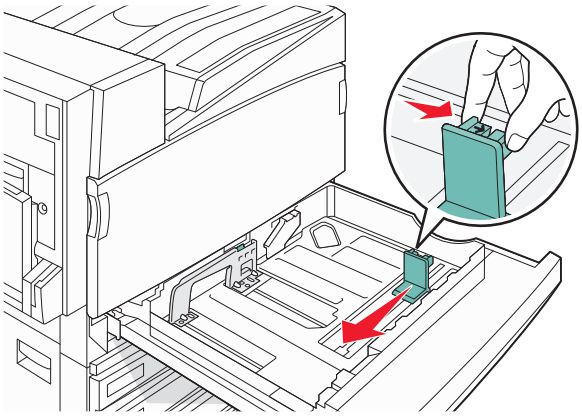
Loading the 520-sheet trays

The printer has a standard 520-sheet tray (Tray 1), and it may have one or more optional 520-sheet trays. All 520-sheet trays support the same paper sizes and types. Paper may be loaded in the trays in either the long-edge or short-edge orientation.

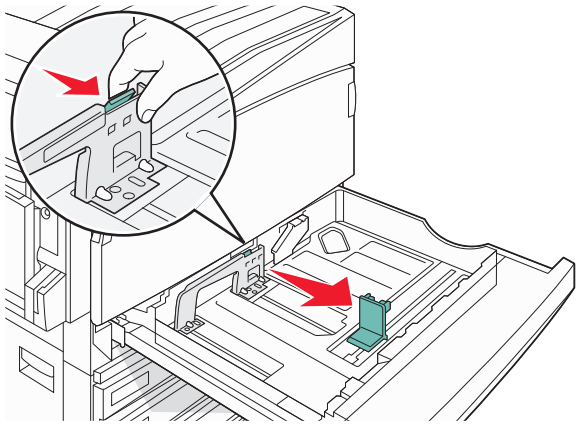
1 Grasp the handle, and pull the tray out.



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

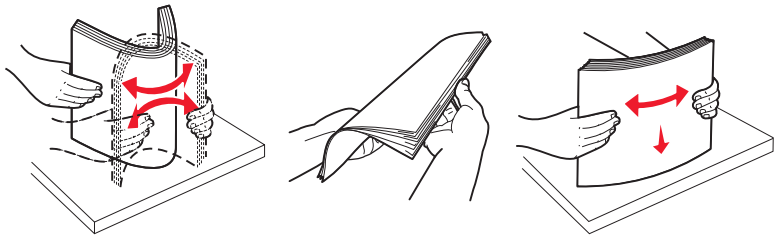


3 Squeeze the length guide tab inward as shown, and slide the guide to the correct position for the paper size being loaded.



Note: Use the size indicators on the bottom of the tray to help position the guides.

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.

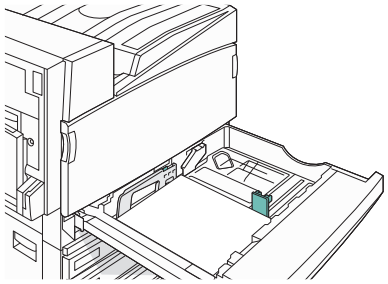


5 Load the paper stack with the recommended print side faceup. Load the paper in either the long-edge or short-edge orientation as shown below:

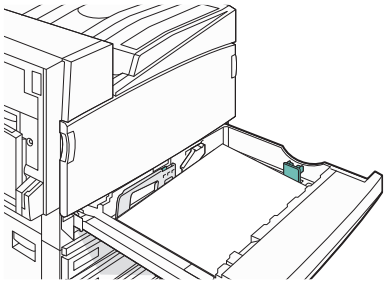
Notes:

- Load sizes larger than A4 in the short-edge orientation.
- Paper must be loaded in the short-edge orientation to create booklets if the optional booklet finisher is installed.

Long-edge orientation

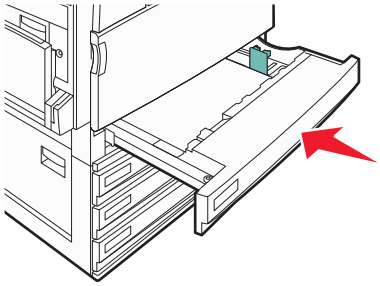


Short-edge orientation



6 Make sure the paper guides are secure against the edges of the paper.

7 Align the tray, and insert it.



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

Using A5 or statement paper sizes

The printer trays *cannot* distinguish between A5- (148 x 210 mm) and statement-size (140 x 216 mm) paper when both sizes are loaded in the printer trays. From the Size Sensing menu, specify which size you want the printer to detect. Load *either* A5- or statement-size paper in the paper trays, but not both.

Note: The multipurpose feeder does not use auto-size sensing and can support both A5- and statement-size print jobs. The Size Sensing setting does not affect the multipurpose feeder settings.

1 Load either A5- or statement-size paper in a paper tray.

2 Make sure the printer is turned off.

3 From the control panel, press and hold √ and ▶ while turning the printer on.

4 Release both buttons when **Performing Self Test** appears.

The printer performs its power-on sequence, and then **CONFIG MENU** appears.

5 Press ▼ repeatedly until √ **SIZE SENSING** appears, and then press √.

6 Press ▼ repeatedly until √ appears next to the tray in which the paper is loaded, and then press √.

7 Press ▼ repeatedly until √ **Auto** appears, and then press √.

The **Statement/A5** menu appears.

8 Press ▼ repeatedly until √ appears next to **Sense Statement** or **Sense A5**, and then press √.

Submitting Selection appears.

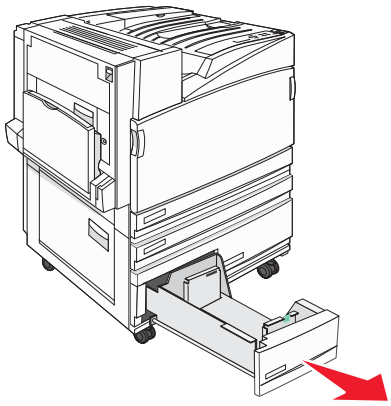
9 Press ▼ until √ **Exit Config Menu** appears, and then press √.

The printer performs its power-on sequence, and then **Ready** appears.

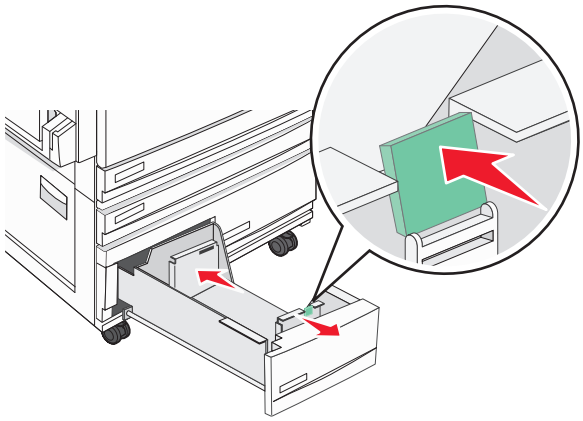
Loading the 867- and 1133-sheet trays

Although the 867-sheet tray and the 1133-sheet tray are different in appearance, they support the same paper sizes and types and require the same process for loading paper. Use these instructions to load paper in either tray:

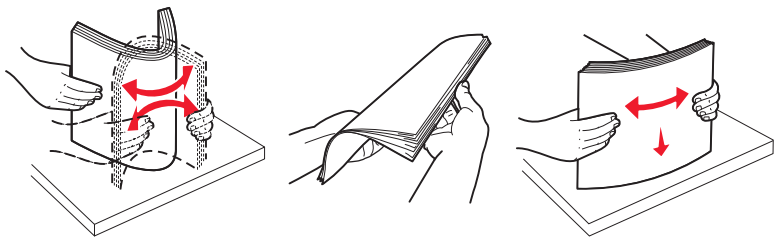
1 Grasp the handle, and open the tray.



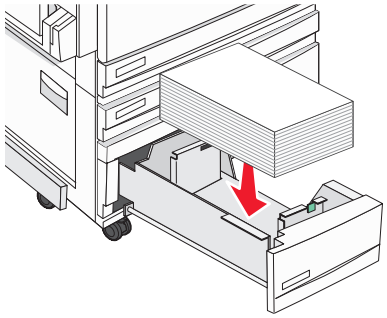
2 Squeeze the length guide tab inward as shown, and slide the guide to the correct position for the paper size being loaded.



3 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.



4 Load the paper stack with the recommended print side faceup.

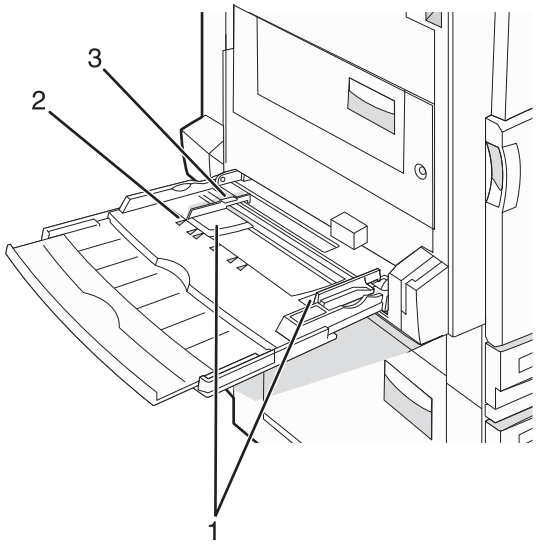


5 Make sure the paper guides are secure against the edges of the paper.

6 Insert the tray into the printer.

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

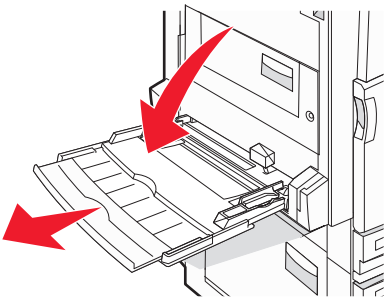
Using the multipurpose feeder



1	Paper guides
2	Size indicators
3	Stack height limiter

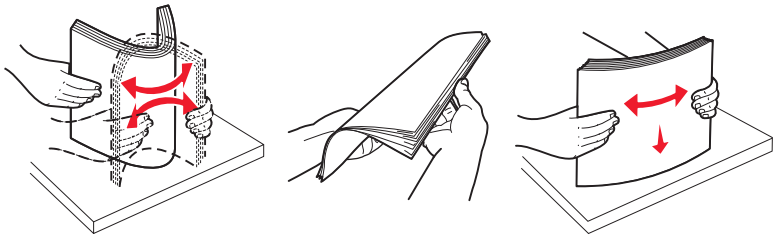
1 Pull the multipurpose feeder tray down.

2 Grasp the extension, and gently pull it out until it is fully extended.



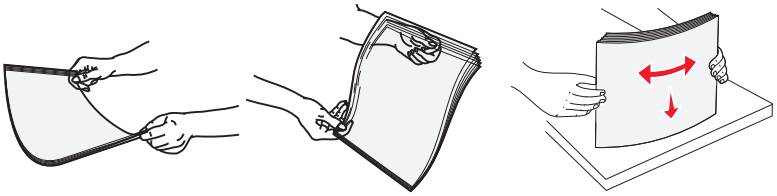
3 Prepare the paper for loading.

- Flex 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.

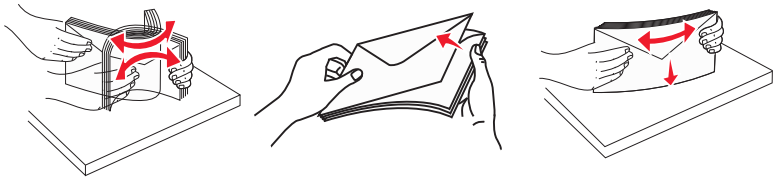


- Hold transparencies by the edges, and then fan them. Straighten the edges on a level surface.

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

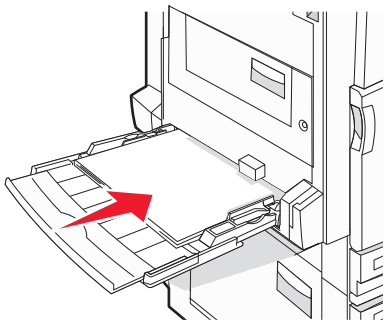


- Flex a stack of envelopes back and forth to loosen them, and then fan them. Straighten the edges on a level surface.

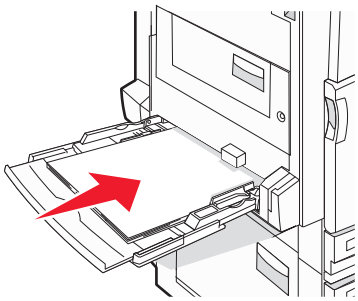


4 Load the paper, and then adjust the paper guides so that they lightly touch the edges of the paper stack.

- Load letter, A4, and transparencies with the recommended print side facedown and the long edge of the paper entering the printer first.



- Load A3, A5, B4, folio, legal, and statement paper with the recommended print side facedown and the short edge of the paper entering the printer first.



Notes:

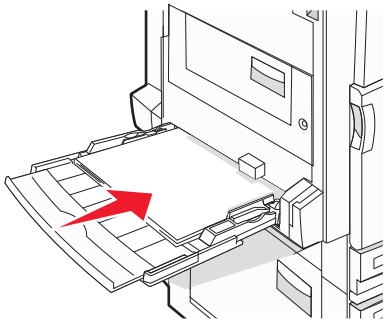
  - Adjust the additional paper guide to accommodate SRA3 and 12 x 19 paper sizes.
  - Do not exceed the maximum stack height by forcing paper under the stack height limiter.

- 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.

Note: Load only one size and type of paper at a time.

5 Make sure the paper is as far into the multipurpose feeder as it will go with very gentle pushing. Paper should lie flat in the multipurpose feeder. Make sure the paper fits loosely in the multipurpose feeder and is not bent or wrinkled.



6 From the 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 Paper Size setting is automatically sensed according to the position of the paper guides in each tray except the multipurpose feeder. The Paper Size setting for the multipurpose feeder must be set manually from the Paper Size menu. The Paper Type setting must be set for all trays from the Paper Type menu. The Paper Type menu and the Paper Size menu are both 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 Type <x> name

Assign a Custom Type <x> name to a tray to link or unlink it. Associate the same Custom Type <x> name to each tray that you want to link. Only trays with the same custom names assigned will link.

1. Make sure the printer is on and **Ready** appears.
2. From the control panel, press .
3. Press ▼ repeatedly until √ **Paper Menu** appears, and then press .
4. Press ▼ repeatedly until √ **Paper Size/Type** appears, and then press .
5. Press ▼ repeatedly until √ appears next to the name of the tray, and then press .

   The Paper Size menu appears.
6. Press again.

   The Paper Type menu appears.

7 Press ▶ repeatedly until √ **Custom Type <x>** or another custom name appears, and then press ✓.

Submitting selection appears, followed by **Paper Menu**.

8 Verify that the correct Paper Type is associated with the custom name.

Note: Plain Paper is the factory default Paper Type associated with all Custom Type <x> names and user-defined custom names.

a From the Paper menu, press ▼ repeatedly until √ **Custom Types** appears, and then press ✓.

b Press ▼ repeatedly until √ appears next to the custom paper type name you selected in step 7 on page 35, and then press ✓.

c Press ▼ repeatedly until √ appears next to the Paper Type setting you want, and then press ✓.

Submitting selection appears.

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 Open a Web browser.

Note: The computer must be connected to the same network as the printer.

2 In the address bar, type the IP address of the network printer (for example,192.264.263.17).

3 Press **Enter**.

4 From the navigation panel of the initial page, click **Configuration**.

5 Click **Paper Menu**.

6 Click **Custom Name**.

7 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.

8 Click **Submit**.

Submitting Selection appears.

9 Click **Custom Types**.

Custom Types appears, followed by your custom name.

10 Select a Paper Type setting from the picklist next to your custom name.

11 Click **Submit**.

Submitting Selection appears.

Paper and specialty media guide

Paper guidelines

Paper characteristics

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

Weight

The printer can automatically feed paper weights from 60 to 220 g/m^2 (16 to 58 lb bond) grain long. Paper lighter than 60 g/m^2 (16 lb) might not be stiff enough to feed properly, causing jams. For best performance, use 75 g/m^2 (20 lb bond) grain long paper. For paper smaller than 182 x 257 mm (7.2 x 10.1 in.), we recommend 90 g/m^2 (24 lb) or heavier paper.

Note: Duplex is supported only for 63 g/m^2–170 g/m^2 (17 lb–45 lb bond) 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, toner cannot fuse to it properly. If paper is too smooth, it can cause paper feeding or print quality issues. Always use paper between 100 and 300 Sheffield points; however, smoothness between 150 and 200 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 to 135 g/m^2 (16 to 36 lb bond) paper, grain long paper is recommended. For papers heavier than 135 g/m^2, 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.

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/m^2 (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/m^2 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

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

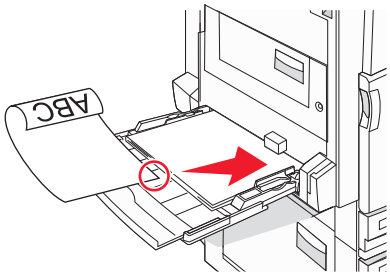
Recycled paper, paper of lower weight (<60 gm^2/16 lb bond) and/or lower caliper (<3.8 mils/0.1 mm), and paper that is cut grain-short for portrait (or short-edge) fed printers may have lower bending resistance than is required for reliable paper feeding. Before using these types of paper for laser (electrophotographic) printing, consult your paper supplier. Remember that these are general guidelines only and that paper meeting these guidelines may still cause paper feeding problems.

Using letterhead

Check with the manufacturer or vendor to determine whether the chosen preprinted letterhead is acceptable for laser printers.

Page orientation is important when printing on letterhead. Use the following sections to determine which direction to load the letterhead in each paper source:

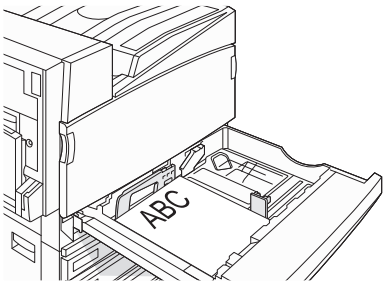
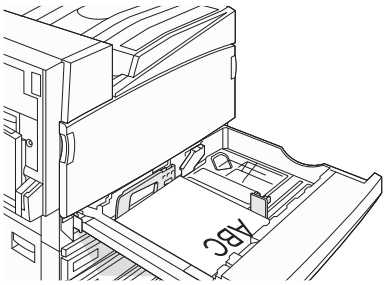
Loading letterhead in the multipurpose feeder



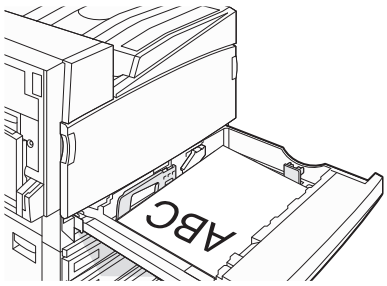
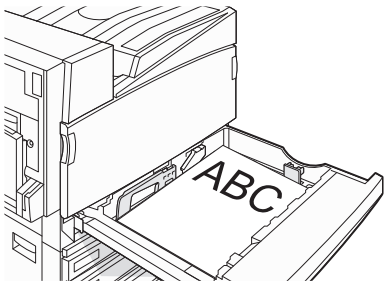
Note: Place the letterhead facedown in the multipurpose feeder with the long edge of the paper entering the printer first.

Loading letterhead in the 520-sheet trays

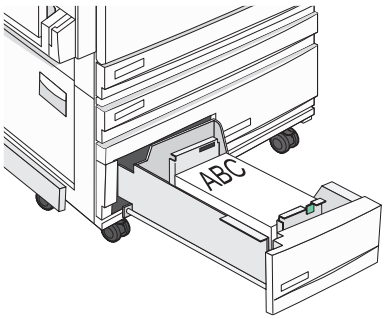
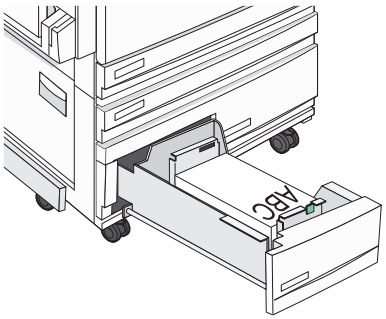
Long-edge orientation

Without finisher	With finisher installed
	

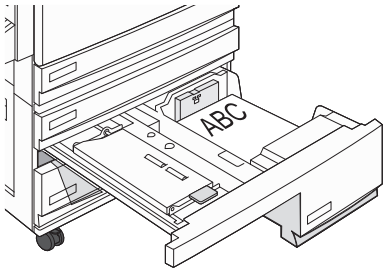
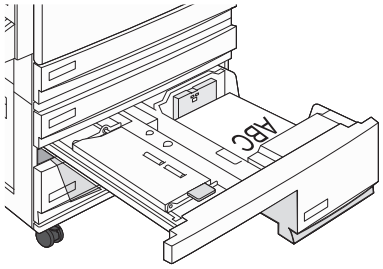
Short-edge orientation

Without finisher	With finisher installed
	

Loading letterhead in the 867-sheet tray

Without finisher	With finisher installed
	

Loading letterhead in the 1133-sheet tray

Without finisher	With finisher installed
	

Using transparencies

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

When printing on transparencies:

- From MarkVision Professional, Print Properties, or the control panel, set the Paper Type to Transparency.
- Feed transparencies from the standard 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 0.12–0.14 mm (4.8–5.4 mil) in thickness or 161–179 g/m^2 in weight. Print quality and durability depend on the transparencies used.
- 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 12A8240 for letter-size transparencies.

Using envelopes

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

When printing on envelopes:

- From the control panel, set the Paper Source based on the source in use. From MarkVision Professional, Print Properties, or the control panel, 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/m^2 (24 lb bond) paper. Use up to 105 g/m^2 (28 lb bond) weight for envelopes as long as the cotton content is 25% or less. All-cotton envelopes must not exceed 90 g/m^2 (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.

Using labels

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

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:

- From MarkVision Professional, Print Properties, or the control panel, set the Paper Type to Labels.
- Use only letter, A4, or legal-size label sheets.
- Use labels designed specifically for laser printers. Check with the manufacturer or vendor to verify that label adhesives, face sheet (printable stock), and topcoats can withstand temperatures up to 230°C (446°F) and pressure up to 25 psi without delaminating, oozing around the edges, or releasing hazardous fumes. Do not use vinyl labels.
- 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.

Using card stock

Card stock is heavy, single-ply print 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:

- From MarkVision Professional, or the control panel:
  1. Set the Paper Type to Card Stock.
  2. Select a Card Stock 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 long card stock when possible.

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: To use a paper size that is unlisted, configure a Universal Paper Size.

For information on card stock and labels, see the *Card Stock & Label Guide*.

Paper sizes supported by the printer

Paper size	Dimensions	520-sheet trays (standard or optional)	High capacity feeder	Multipurpose feeder	Duplex unit
A3	297 x 420 mm (11.7 x 16.5 in.)	✓	**X**	✓	✓
A4	210 x 297 mm (8.3 x 11.7 in.)	✓	✓	✓	✓
A5[1]	148 x 210 mm (5.8 x 8.3 in.)	✓	**X**	✓	X
Executive	184 x 267 mm (7.3 x 10.5 in.)	**X**	**X**	✓	✓

[1] The printer cannot simultaneously sense A5 and statement paper sizes. From the Size Sensing menu, specify which size you want the printer to detect. This setting applies to all automatic trays except the multipurpose feeder. The multipurpose feeder can support both sizes.

[2] Measurements apply to simplex (one-sided) printing only. For duplex (two-sided) printing, the minimum size is 140 x 148 mm (5.5 x 5.8 in.) and the maximum size is 297 x 432 mm (11.7 x 17 in.).

Paper size	Dimensions	520-sheet trays (standard or optional)	High capacity feeder	Multipurpose feeder	Duplex unit
Folio	216 x 330 mm (8.5 x 13 in.)	✓	**X**	✓	✓
JIS B4	257 x 364 mm (10.1 x 14.3 in.)	✓	**X**	✓	✓
JIS B5	182 x 257 mm (7.2 x 10.1 in.)	✓	✓	✓	✓
Legal	216 x 356 mm (8.5 x 14 in.)	✓	**X**	✓	✓
Letter	216 x 279 mm (8.5 x 11 in.)	✓	✓	✓	✓
Statement[1]	140 x 216 mm (5.5 x 8.5 in.)	✓	**X**	✓	X
Tabloid	279 x 432 mm (11 x 17 in.)	✓	**X**	✓	✓
Universal	100 x 148 mm (3.9 x 5.8 in.) up to 305 x 483 mm (11.7 x 19 in.)[2]	**X**	**X**	✓	✓
7 3/4 Envelope (Monarch)	98 x 191 mm (3.9 x 7.5 in.)	**X**	**X**	✓	**X**
B5 Envelope	176 x 250 mm (6.9 x 9.8 in.)	**X**	**X**	✓	**X**
C5 Envelope	162 x 229 mm (6.4 x 9 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**

[1] The printer cannot simultaneously sense A5 and statement paper sizes. From the Size Sensing menu, specify which size you want the printer to detect. This setting applies to all automatic trays except the multipurpose feeder. The multipurpose feeder can support both sizes.

[2] Measurements apply to simplex (one-sided) printing only. For duplex (two-sided) printing, the minimum size is 140 x 148 mm (5.5 x 5.8 in.) and the maximum size is 297 x 432 mm (11.7 x 17 in.).

Paper types and weights supported by the printer

The printer engine supports 60–220 g/m^2 (16–60 lb) paper weights. The duplex unit supports 63–170 g/m^2 (17–45 lb) paper weights.

Paper type	520-sheet trays	High capacity feeder	Multipurpose feeder	Duplex unit
Plain Paper	✓	✓	✓	✓
Bond	✓	✓	✓	✓
Letterhead	✓	✓	✓	✓
Preprinted	✓	✓	✓	✓
Colored Paper	✓	✓	✓	✓
Card stock	✓	✓	✓	✓
Glossy paper	X	X	✓	X
Paper labels*	X	X	✓	✓
Transparencies	✓	✓	✓	X
Envelopes	X	X	✓	X

* Vinyl labels are not supported.

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/m^2 (20 lb) paper.

The Finisher standard bin and Bin 1 support 60–220 g/m^2 (16–60 lb) paper weights. Bin 2 (booklet-maker) supports 60–90 g/m^2 (16–24 lb) paper weights plus one additional cover weighted up to 220 g/m^2 (60 lb).

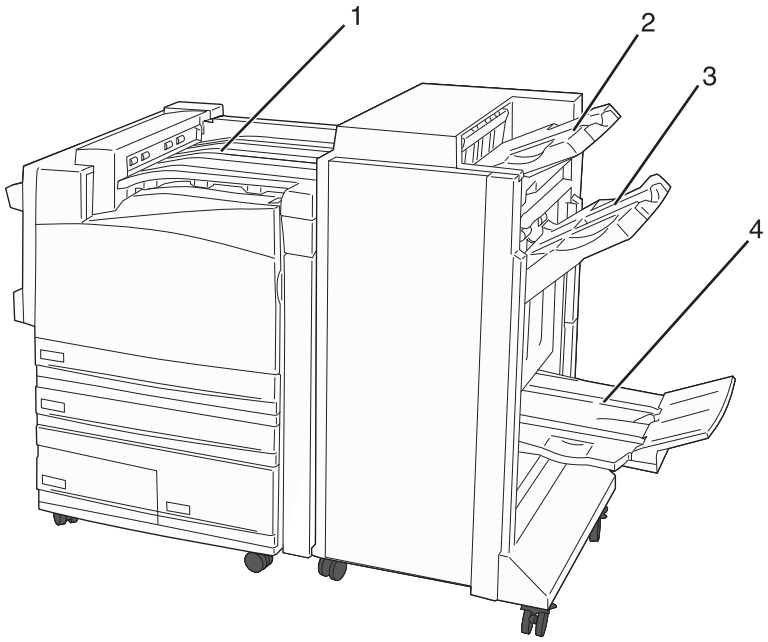
Paper type	Horizontal transport unit (50 sheets)	Finisher standard bin (500 sheets)	Bin 1 (1500/3000 sheets)*	Bin 2 (300 sheets)
Plain Paper	✓	✓	✓	✓
Bond	✓	✓	✓	✓
Letterhead	✓	✓	✓	✓
Preprinted	✓	✓	✓	✓
Colored Paper	✓	✓	✓	✓
Card stock	✓	✓	✓	✓

* Bin 1 of the booklet finisher supports 1500 sheets. Bin 1 of the standard finisher supports 3000 sheets.

Paper type	Horizontal transport unit (50 sheets)	Finisher standard bin (500 sheets)	Bin 1 (1500/3000 sheets)*	Bin 2 (300 sheets)
Glossy paper	✓	✓	X	X
Labels	✓	✓	X	X
Transparencies	✓	✓	X	X
Envelopes	✓	X	X	X

* Bin 1 of the booklet finisher supports 1500 sheets. Bin 1 of the standard finisher supports 3000 sheets.

Supported finishing features



1	Horizontal transport unit
2	Finisher standard bin
3	Finisher bin 1
4	Finisher bin 2 (booklet-maker)

Notes:

- The finisher shown above, is the booklet finisher. Bin 2 is available only when the booklet finisher is installed.
- All paper capacities are based on 75 g/m^2 (20 lb) paper.

Horizonal transport unit

- The paper capacity is 50 sheets.
- Finishing options are not supported in this bin.

- Envelopes are routed here.
- Universal paper is routed here when it is longer than 483 mm (19 in.) or shorter than 148 mm (5.8 in.).

Finisher standard bin

- The paper capacity is 500 sheets.
- Envelopes and executive-size paper are not supported in this bin.
- Finishing options are not supported in this bin.

Bin 1

- The paper capacity is 3000 sheets when the standard finisher is installed.
- The paper capacity is 1500 sheets when the booklet finisher is installed.

Bin 1 finishing features

Size	Punch*	Offset	Single/double staple	Double dual staple
A3	✓	✓	✓	✓
A4	✓	✓	✓	✓
A5	X	X	X	X
Executive	✓	✓	✓	X
Folio	X	✓	✓	X
JIS B4	✓	✓	✓	X
JIS B5	✓	✓	✓	X
Legal	X	✓	✓	X
Letter	✓	✓	✓	✓
Statement	X	X	X	✓
Tabloid	✓	✓	✓	X
Universal	✓	✓	✓	✓
Envelopes (any size)	X	X	X	X

* For the Universal paper size, the finishing edge must be at least 9 in. (229 mm) for a 3-hole punch and 10 in. (254 mm) for a 4-hole punch.

Punch—Two-, three-, or four-hole punch settings

Single staple—One staple

Double staple—Two staples

Double dual staple—Two sets of two staples. This setting is supported only for widths between 8 in. (203 mm) and 11.7 in. (297 mm) with lengths between 7.2 in. (182 mm) and 17 in. (432 mm).

Bin 2 (booklet-maker)

Bin 2 is available only when the booklet finisher is installed. The paper capacity of Bin 2 (booklet-maker) is 300 sheets or 20 sets of 15-sheet booklets.

Bin 2 finishing features

Size	Bi fold	Booklet fold	Saddle staple
A3	✓	✓	✓
A4 (only SEF)	✓	✓	✓
A5	X	X	X
Executive	X	X	X
Folio	✓	✓	✓
JIS B4	✓	✓	✓
JIS B5	X	X	X
Legal	✓	✓	✓
Letter (only SEF)	✓	✓	✓
Statement	X	X	X
Tabloid	✓	✓	✓
Universal	X	X	X
Envelopes (any size)	X	X	X

SEF—The paper is loaded in the short edge orientation. The short edge of the paper enters the printer first.

Bi fold—Each page is individually folded and stacked separately.

Booklet fold—A multiple-page job is folded along the center into a single booklet.

Saddle staple—A booklet-fold print job is stapled along the center fold.

Printing

This chapter covers printing, printer reports, and job cancellation. The selection and handling of paper and specialty media can affect how reliably documents print. For more information, see "Avoiding jams" and "Storing paper."

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. For more information, see the *Setup* sheet or *Setup Guide* that shipped with the printer or click **Install printer and software** on the *Software and Documentation* CD.

When **Print** is chosen from a software application, a dialog representing the printer driver opens. Click **Properties**, **Preferences**, **Options**, or **Setup** from the initial Print dialog to open Print Properties and see all of the available printer settings that may be changed. If a feature in Print Properties is unfamiliar, open the online Help for more information.

Note: Print settings selected from the driver override the default settings selected from the control panel.

Printing a document from Windows

1. With a document open, click **File > Print**.
2. Click **Properties**, **Preferences**, **Options**, or **Setup**.
3. Adjust the settings.
4. Click **OK**.
5. Click **OK** or **Print**.

Printing a document from a Macintosh computer

1. With a document open, choose **File** > **Print**.
2. From the Copies & Pages or General pop-up menu, adjust the settings.
3. Click **OK** or **Print**.

Printing confidential and other held jobs

Holding jobs in the printer

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

Note: Confidential, Repeat, Reserve, and Verify 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 in Print Properties. 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 control panel and choose to print or delete the job.
Repeat	When you send a Repeat print job, the printer prints all requested copies of the job *and* 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.
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.
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.

Printing confidential and other held jobs from Windows

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. From the control panel, press ▼ repeatedly until √ **Held jobs** appears, and then press ✓.
7. Press ▼ repeatedly until √ appears next to your user name, and then press ✓.
8. Press ▼ repeatedly until √ appears next to the job type or job name, and then press ✓.
   If you selected a job name, proceed to step 10 on page 49.
9. After selecting your job type, use the keypad to enter your PIN.
   If you enter an invalid PIN, the Invalid PIN screen appears.
   - To re-enter the PIN, make sure √ **Try again** appears, and then press ✓.
   - To cancel the PIN, press ▼ repeatedly until √ **Cancel** appears, and then press ✓.
10. Press ▼ repeatedly until √ appears next to the job you want to print, and then press ✓.
11. Press ▼ repeatedly until √ appears next to the number of copies you want to print, and then press ✓.

    Note: Use the keypad to enter a number if necessary.

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.

Printing confidential and other held jobs from a Macintosh computer

1. With a document open, choose **File** > **Print**.
2. From the Copies & Pages or General pop-up menu, choose **Job Routing**.
   a. When using Mac OS 9 if Job Routing is not a choice from the pop-up menu, choose **Plug-in Preferences > Print Time Filters**.
   b. Turn down the disclosure triangle to the left of **Print Time Filters**, and choose **Job Routing**.
3. From the radio group, 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. From the control panel, press ▼ until √ **Held jobs** appears, and then press ✓.
6. Press ▼ until √ appears next to your user name, and then press ✓.
7. Press ▼ until √ appears next to your job, and then press ✓.
8. For confidential jobs, use the numeric keypad to enter your PIN.

   If you enter an invalid PIN, the Invalid PIN screen appears.

   - To re-enter the PIN, make sure √ **Try again** appears, and then press ✓.
   - To cancel the PIN, press ▼ until √ **Cancel** appears, and then press ✓.
9. Press ▼ until √ appears next to the job you want to print, and then press ✓.

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.

Printing from a USB flash memory device

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

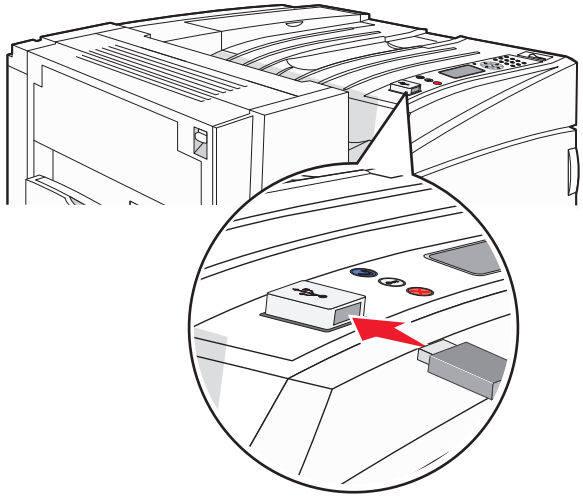
Many USB flash memory devices are tested and approved for use with the printer. For more information, visit the Lexmark Web site at **www.lexmark.com**.

Notes:

- Hi-Speed USB devices must support the Full-speed standard. Devices only supporting 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.
- Before printing an encrypted .pdf file, enter the file password from the control panel.
- You cannot print files for which you do not have printing permissions.

To print from a USB flash memory device:

1. Make sure the printer is on and **Ready** or **Busy** appears.
2. Insert a USB flash memory device into the USB Direct interface.



Notes:

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

3 Press ▼ until √ appears next to the document you want to print, and then press ✓.

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

4 Press ✓ to print one copy, or enter the number of copies using the keypad, and then press ✓ to initiate the print job.

Note: Do not remove the USB flash memory device from the USB Direct interface until the document has finished printing.

If you leave the USB flash memory device in the printer after leaving the initial USB menu screen, you can still print .pdf's from the USB flash memory device as held jobs.

Printing information pages

Printing a menu settings page

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

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

2 From the control panel, press ⚿.

3 Press ▼ until √ **Reports** appears, and then press ✓.

4 Press ▼ until √ **Menu Settings Page** appears, and then press ✓.

Printing Menu Settings appears. After the menu settings page prints, **Ready** appears.

Printing a network setup page

If the printer 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.

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

2 From the control panel, press ⚿.

3 Press ▼ until √ **Reports** appears, and then press ✓.

4 Press ▼ until √ **Network Setup Page** appears, and then press ✓.

After the network setup page prints, **Ready** appears.

Note: If an optional internal print server is installed, **Print Network <x> Setup Page** appears.

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.

Printing a font sample list

To print samples of the fonts currently available for your printer:

1. Make sure the printer is on and **Ready** appears.
2. From the control panel, press .
3. Press ▼ repeatedly until √ **Reports** appears, and then press .
4. Press ▼ repeatedly until √ **Print Fonts** appears, and then press .
5. Press ▼ repeatedly until √ appears next to **PCL Fonts**, **PostScript Fonts**, or **PPDS Fonts**, and then press .

   After the font sample list prints, **Ready** appears.

Printing a directory list

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

1. Make sure the printer is on and **Ready** appears.
2. From the control panel, press .
3. Press ▼ until √ **Reports** appears, and then press .
4. Press ▼ until √ **Print Directory** appears, and then press .

   Printing Directory List appears. After the directory list prints, **Ready** appears.

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 clock appears, and wait for **CONFIG MENU** to appear.
4. Press ▼ until √ **Prt Quality Pgs** appears, and then press .

   The print quality test pages print.
5. Press ▼ until √ **Exit Config Menu** appears, and then press .

   Resetting the Printer appears briefly, followed by a clock, and then **Ready** appears.

Canceling a print job

There are several methods for canceling a print job. The following sections explain how to cancel a print job from the control panel or from a computer (depending on the operating system).

Canceling a print job from the control panel

If the job is formatting or already printing, and **Cancel a job** appears on the first line of the display:

1. Press ▼ until √ **Cancel** appears.
   A list of jobs appears.
2. Press ▼ until √ appears next to the job you want to cancel, and then press ✓.
   Canceling <filename> appears.

Note: Once a print job is sent, to easily cancel a job, press ✕. The Stopped screen appears. Press ▼ until √ **Cancel a job** appears, and then press ✓.

Canceling a print job 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**.

Canceling a print job from the Windows desktop

1. Minimize all programs to reveal the desktop.
2. Double-click the **My Computer** icon.
3. Double-click the **Printers** icon.
4. Double-click the printer icon.
5. Select the job to cancel.
6. From the keyboard, press **Delete**.

Canceling a print job from Mac OS 9

When you send a job to print, the printer icon for your selected printer appears on the desktop.

1. Double-click the printer icon.
   A list of print jobs appears in the printer window.
2. Choose a job to cancel.

3 Click the trash icon.

Canceling a print job from Mac OS X

1 Choose **Applications** > **Utilities**, and then double-click **Print Center** or **Printer Setup Utility**.

2 Double-click the printer you are printing to.

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.

Printing in black and white

To print all text and graphics using only the black toner cartridge, set the printer to Black Only.

Note: The printer driver is capable of overriding this setting.

1 From the control panel, press .

2 Press ▼ repeatedly until √ **Settings** appears, and then press .

3 Press ▼ repeatedly until √ **Quality Menu** appears, and then press .

4 Press ▼ repeatedly until √ **Print Mode** appears, and then press .

5 Press ▼ repeatedly until √ **Black Only** appears, and then press .

Submitting selection appears.

Using Max Speed and Max Yield

The Max Speed and Max Yield settings allow you to choose between a faster print speed or a higher toner yield. Max Speed is the factory default setting.

- **Max Speed**—Prints in a black only mode until it receives a page with color content. Then, it prints in color and does not switch to black only until it receives ten consecutive black-and-white pages.
- **Max Yield**—Switches from black to color mode based on the color content found on each page. Frequent color mode switching can result in slower printing if the content of pages is mixed.

To specify the setting:

1 Open a Web browser.

2 In the address bar, type the network printer or print server IP address, and then press **Enter**.

3 Click **Configuration**.

4 Click **Print Settings**.

5 Click **Setup Menu**.

6 From the Printer Usage list, select **Max Speed** or **Max Yield**.

7 Click **Submit**.

Clearing jams

Avoiding jams

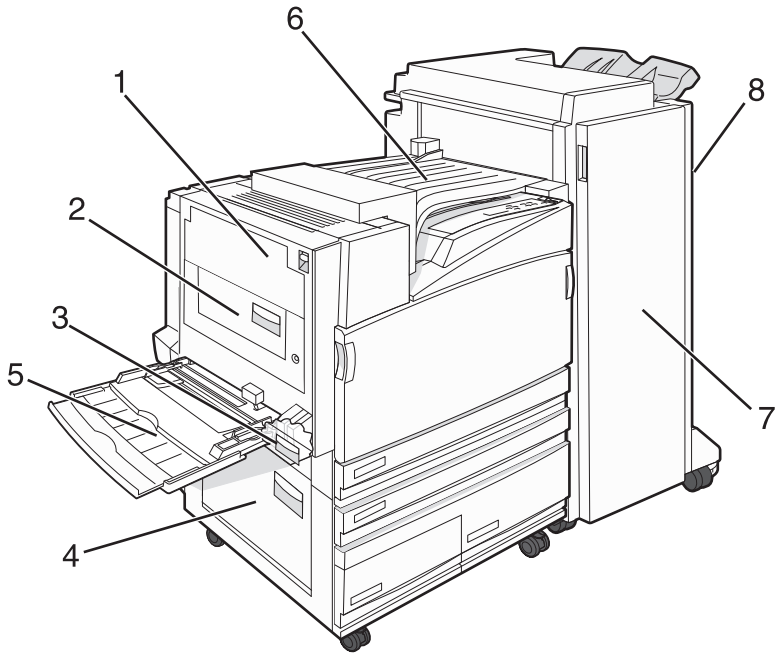
The following hints can help you avoid jams:

- Use only recommended paper or specialty media.

  For more information, see the *Card Stock & Label Guide* available on the Lexmark Web site at **www.lexmark.com/publications**.
- Do not load too much paper. Make sure the stack height does not exceed the indicated maximum height.
- Do not load wrinkled, creased, damp, 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.
- Store the paper in an appropriate environment.
- Do not remove trays while the printer is printing. Wait for **Load tray <x>** or **Ready** to appear before removing a tray.
- Do not load the manual feeder while the printer is printing. Wait for **Load Manual feeder with <x>** to appear.
- Push all trays in firmly after loading paper.
- Make sure the guides in the trays are properly positioned, and are not pressing too tightly against the paper.
- Make sure all paper sizes and paper types are set correctly in the control panel menu.
- Make sure all printer cables are attached correctly. For more information, see the setup documentation.

Understanding jam numbers and locations

When a jam occurs, a message indicating the jam location appears. The following illustration and table list the paper jams that can occur and the location of each jam. Open doors and covers, and remove trays to access jam locations.

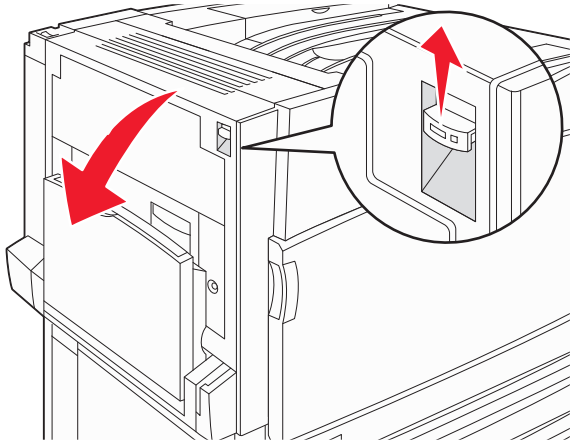


	Jam numbers	Area name	Instructions
1	200–203	Door A	Open Door A, and then remove the jam.
2	230–231	Door B	Open Doors A and B, and then remove any jams.
3	241	Door C	Open Door C, and then remove the jam. Open Tray 1, and then remove the jam.
4	242–244	Door D	Open Door D, and then remove the jam. Open Trays 2–4, and then remove any jams.
5	250	Multipurpose feeder	**1** Remove all paper from the multipurpose feeder. **2** Flex and stack the paper. **3** Reload the multipurpose feeder. **4** Adjust the paper guides.
6	280–282	Cover F (Horizontal Transport Unit)	Open Cover F, and then remove the jam.
7	283–284 287–288 289	Door G	Open Door G, and then remove the jam. For staple jams, remove the sheets in the accumulator. Remove the staple cartridge, and then clear the staple jam.
8	284–286	Door H	Open Door H, and then remove the jam. **Note:** Door H is located between the finisher output bins.

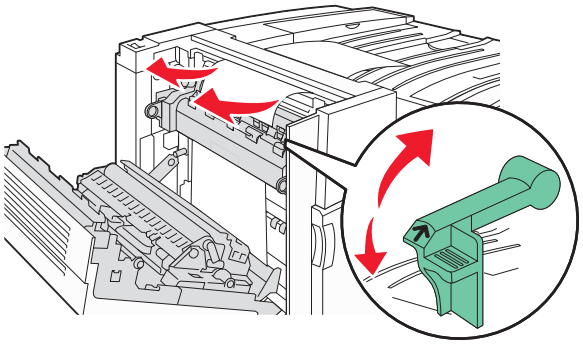
200–203 paper jams

1 Open Door A by lifting the release latch and lowering the door.

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.



2 Lift the green lever, and then pull the paper up and toward you.



Note: Make sure all paper fragments are removed.

3 Push the green lever down.

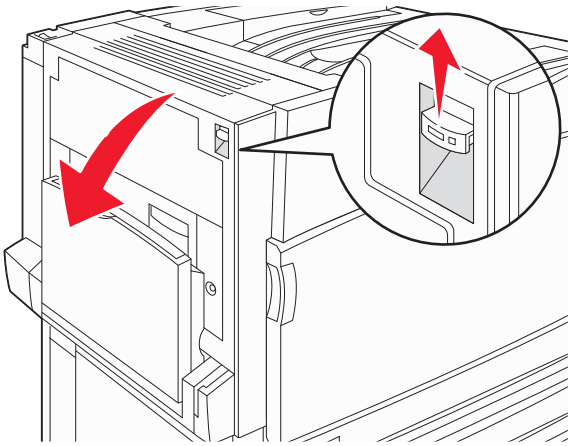
4 Close Door A.

5 Press .

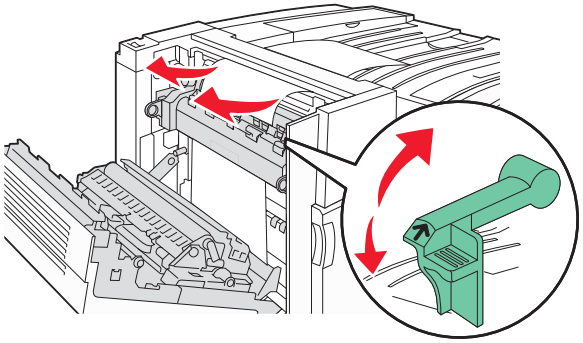
230–231 paper jams

1 Open Door A by lifting the release latch and lowering the door.

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 it.



2 Lift the green lever, and then pull the paper up and toward you.

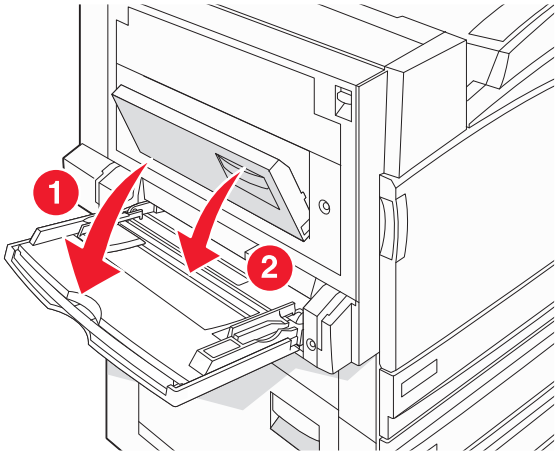


Note: Make sure all paper fragments are removed.

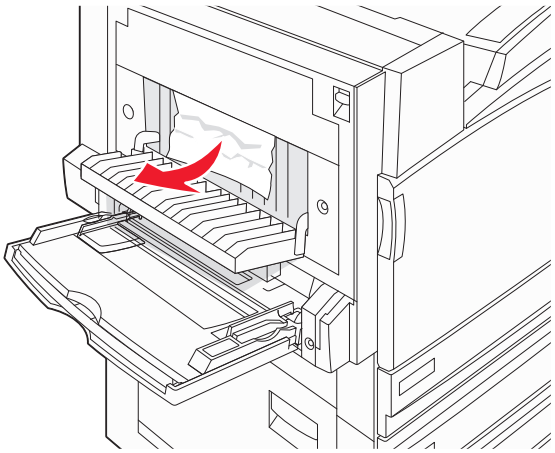
3 Push the green lever down.

4 Close Door A.

5 Pull the multipurpose feeder down, and then open Door B.



6 Remove the jammed paper.

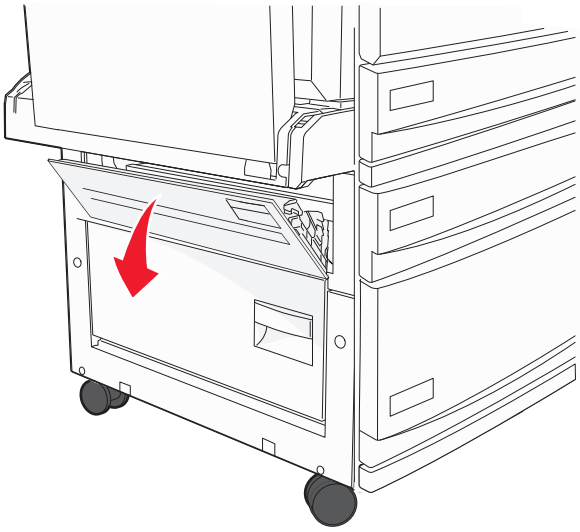


7 Close Door B.

8 Press .

241 paper jam

1 Open Door C.

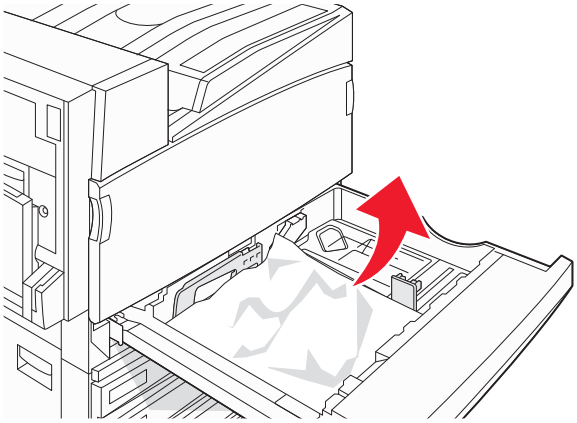


2 Pull the paper down and toward you.

Note: Make sure all paper fragments are removed.

3 Close Door C.

4 Open Tray 1, and then remove any crumpled paper from the tray.

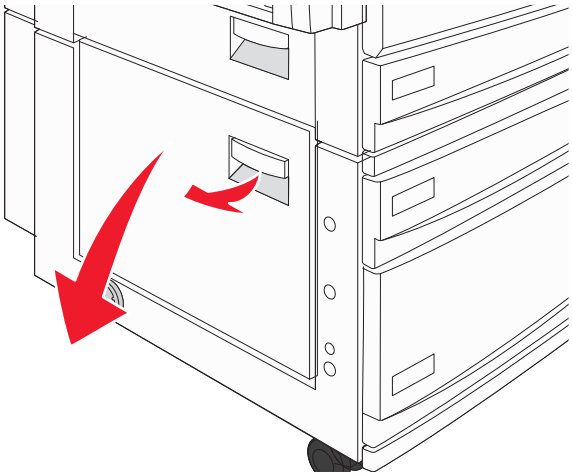


5 Close the tray.

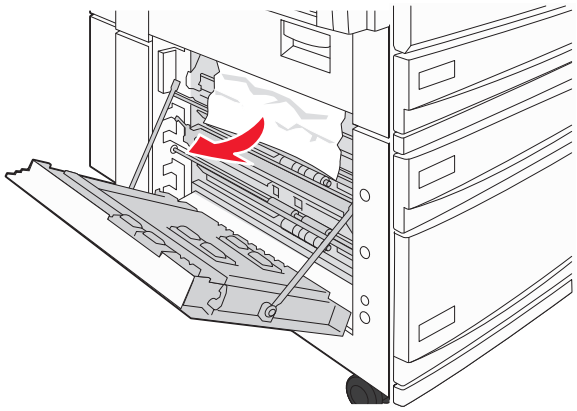
6 Press .

242–244 paper jams

1 Open Door D.



2 Pull the paper down and away from the printer.

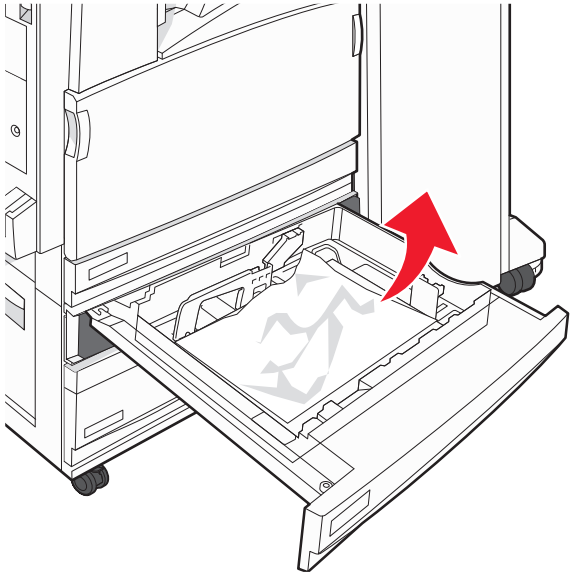


Note: Make sure all paper fragments are removed.

3 Close Door D.

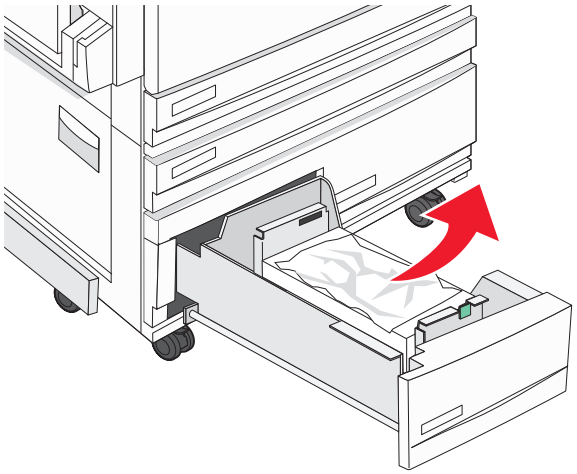
4 Clear any crumpled paper from Trays 2–4.

a Open Tray 2, and then remove any crumpled paper.



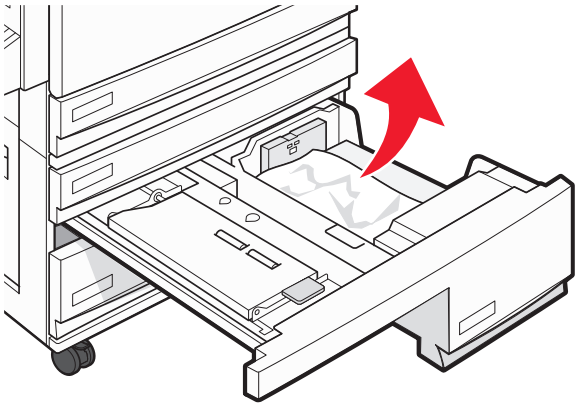
b Close Tray 2.

c Open Tray 3, and then remove any crumpled paper.

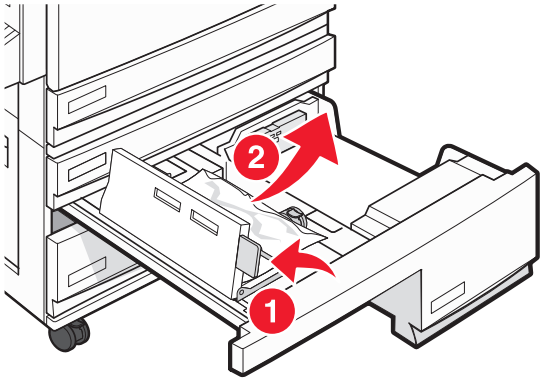


d Close Tray 3.

e Open Tray 4, and then remove any crumpled paper.



f Open the inside cover, and then remove any jammed paper.

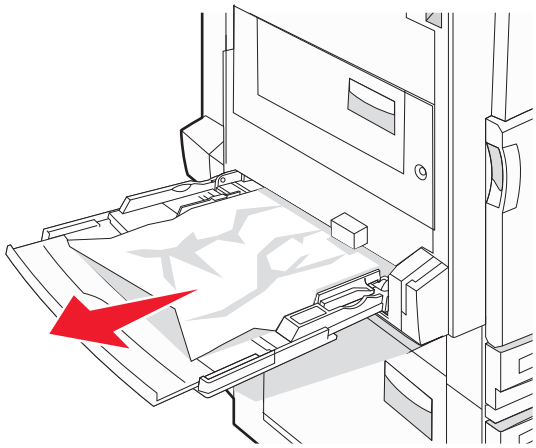


g Close the inside cover, and then close Tray 4.

5 Press ✓.

250 paper jam

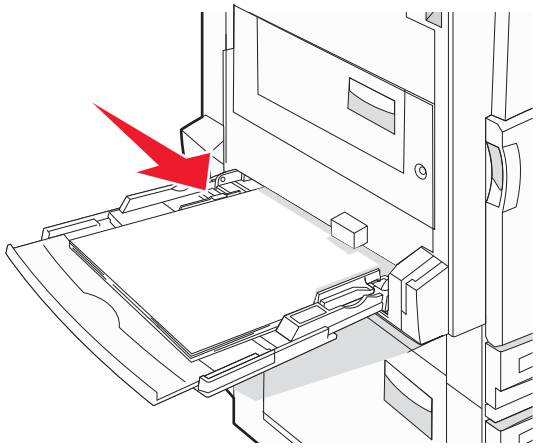
1 Remove the paper from the multipurpose feeder.



2 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.

3 Load the paper into the multipurpose feeder.

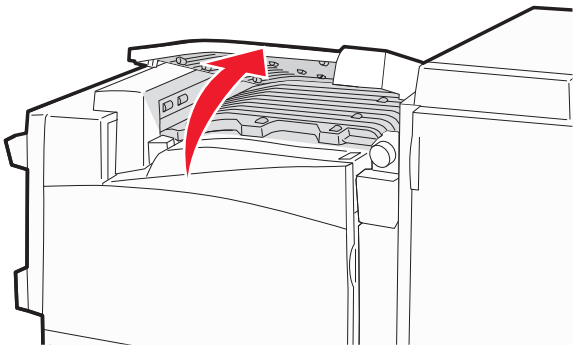
4 Slide the paper guide toward the inside of the tray until it lightly rests against the edge of the paper.



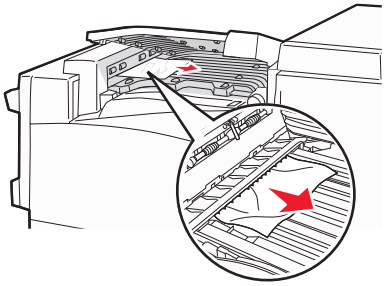
5 Press .

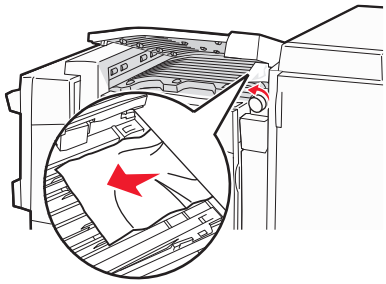
280–282 paper jams

1 Open Cover F.



2 Remove the jammed paper.



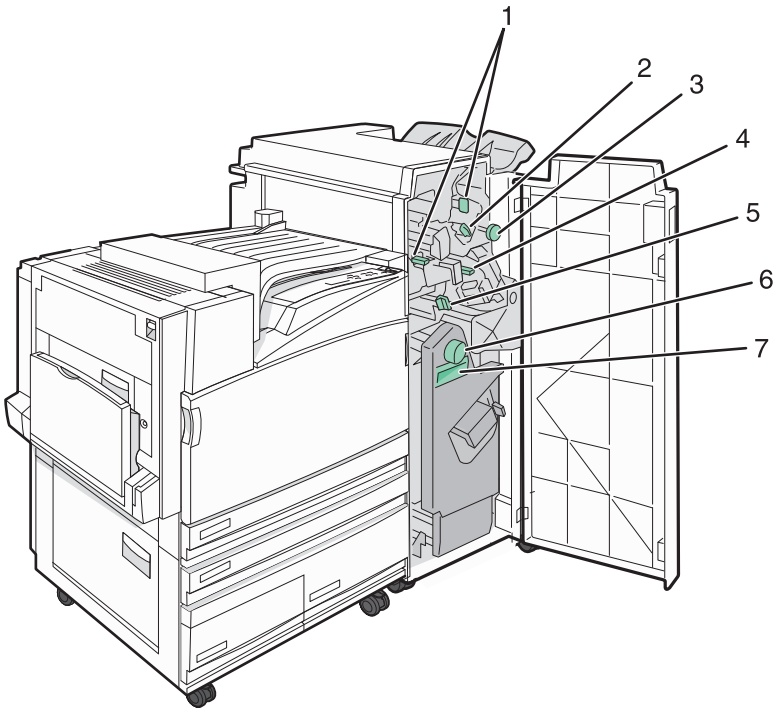


3 Close Cover F.

4 Press ✓.

Note: If the paper jam on the right is difficult to remove, rotate the knob clockwise.

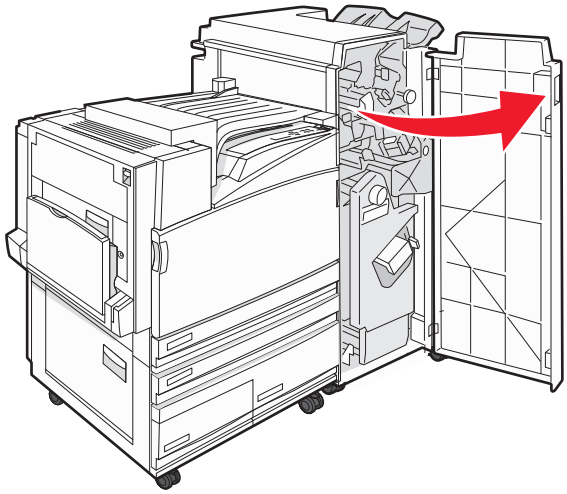
283–284 and 287–288 paper jams



Covers, knobs, and handles located behind finisher Door G

	Cover, knob, or handle name
1	Cover G1
2	Cover G2
3	Knob G3
4	Cover G4
5	Cover G7
6	Knob G8
7	Handle G9

1 Open Door G.



2 Lift both Cover G1 levers, and then remove any jammed paper.

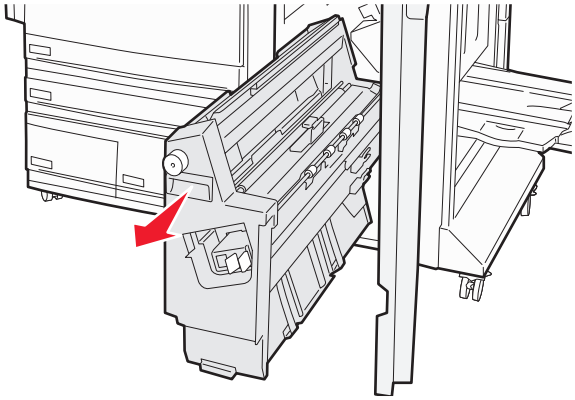
3 Move Cover G2 to the right, and then remove any jammed paper.

Note: If the paper is jammed in the rollers, rotate Knob G3 counterclockwise.

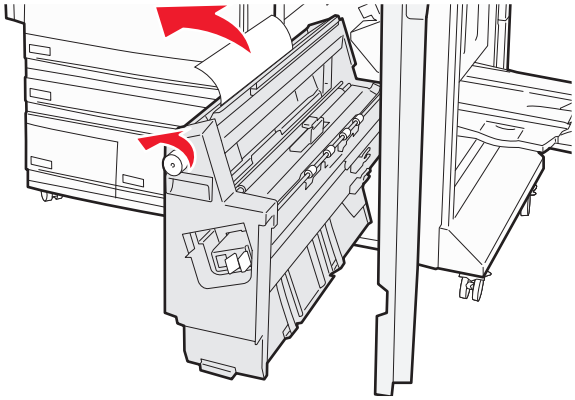
4 Move Cover G4 down, and then remove any jammed paper.

5 Move Cover G7 to the left, and then remove any jammed paper.

6 Pull Handle G9 until the tray is completely open.



7 Lift the inside cover. If the paper is jammed in the rollers, rotate Knob G8 clockwise, and then remove the jammed paper.

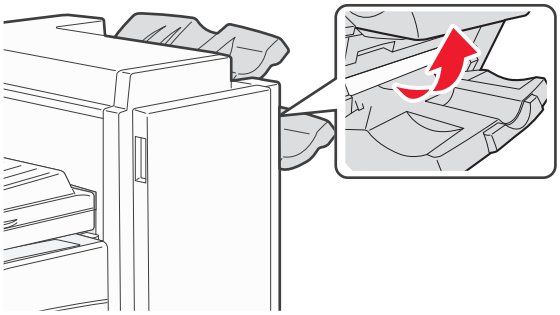


8 Close Door G.

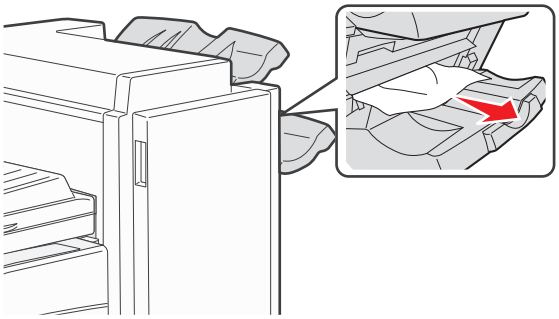
9 Press ✓.

284–286 paper jams

1 Open Door H.



2 Remove the jammed paper.

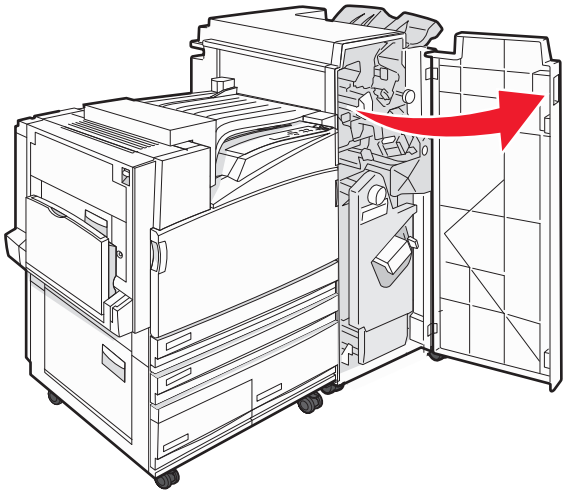


3 Close Door H.

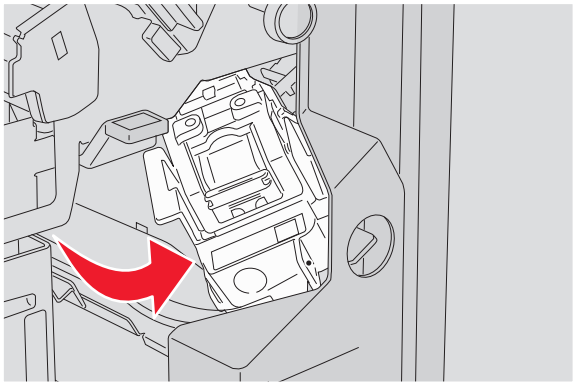
4 Press ✓.

289 staple jam

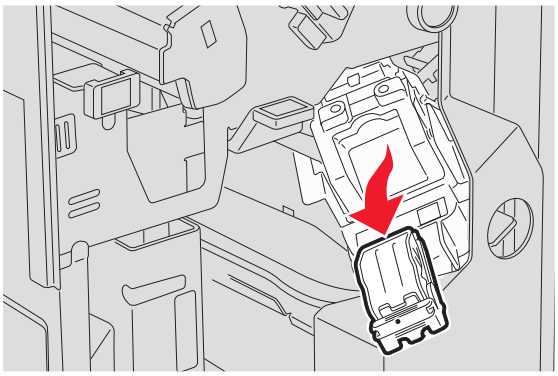
1 Open Door G.



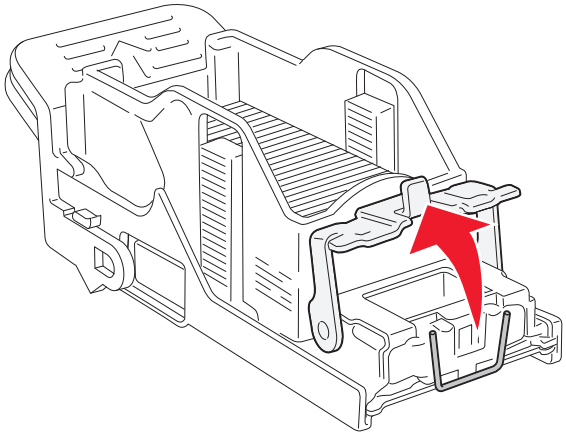
2 Slide the G5 stapler toward the front of the finisher.



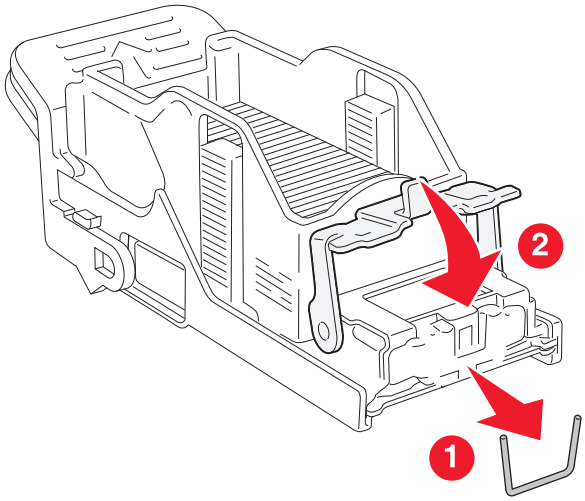
3 Lift the lever, and then remove the staple cartridge.



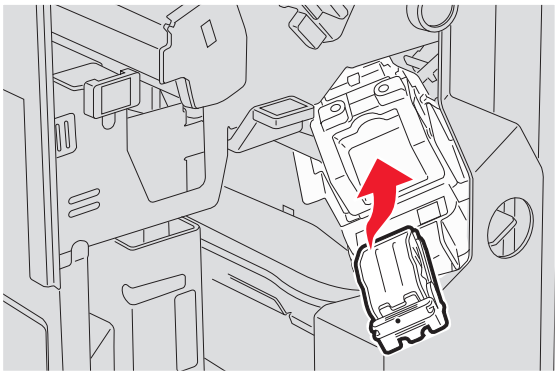
4 Open the staple cover.



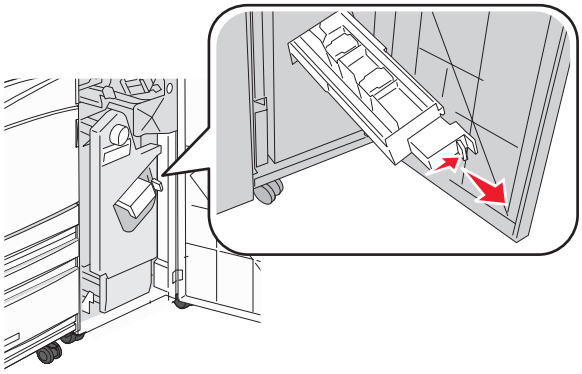
5 Remove the jammed staple, and then close the cover.



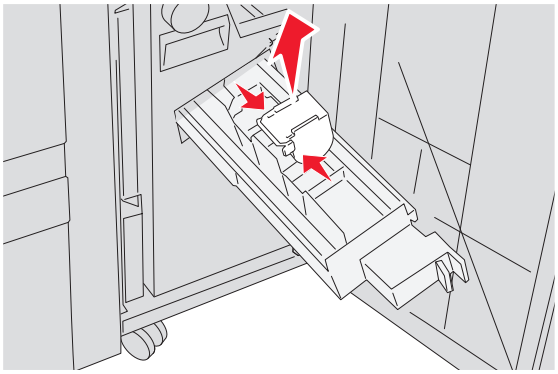
6 Place the staple cartridge into the upper stapler.



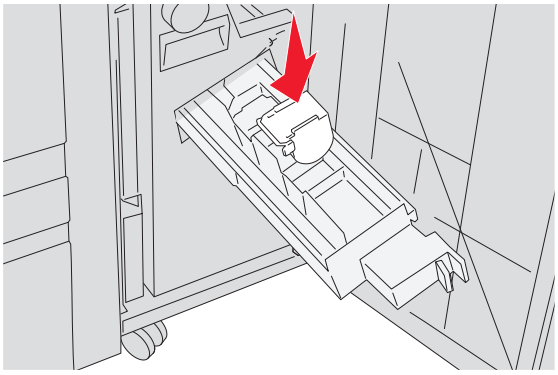
7 Open the lower staple drawer.



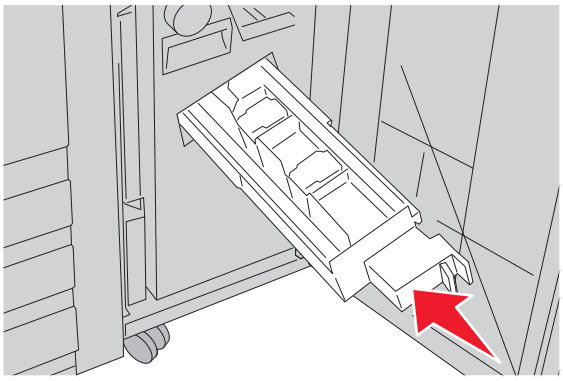
8 Remove the staple cartridge identified on the display.



9 Remove the jammed staples, and then place the staple cartridge into the stapler.



10 Close the staple drawer.

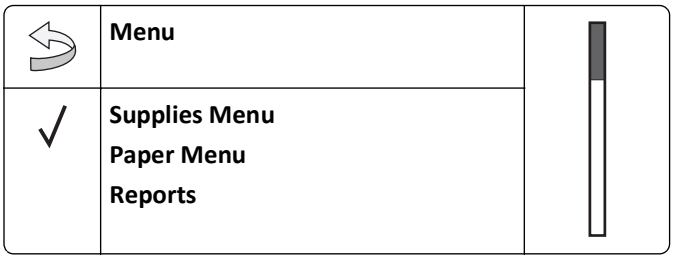


11 Close Door G.

12 Press ✓.

Understanding printer menus

Menus list



A number of menus are available to make it easy for you to change printer settings:

Supplies Menu	Paper Menu	Reports	Settings
Cyan Toner	Default Source	Menu Settings Page	Setup Menu
Magenta Toner	Paper Size/Type	Device Statistics	Finishing Menu
Yellow Toner	Configure MP	Network Setup Page	Quality Menu
Black Toner	Substitute Size	Network <x> Setup Page	Utilities Menu
Color PC Units	Paper Texture	Wireless Setup Page	PDF Menu
Black PC Unit	Paper Loading	Profiles List	PostScript Menu
Waste Toner Box	Custom Types	NetWare Setup Page	PCL Emul Menu
Staples G5	Universal Setup	Print Fonts	PPDS Menu
Staples G11	Bin Setup	Print Directory	HTML Menu
Staples G12			Image Menu
Hole Punch Box			

Security	Network/Ports	Help
Max Invalid PIN	TCP/IP	Print All
Job Expiration	IPv6	Print Quality
	Wireless	Color Quality
	Standard Network, Network <x>	Printing Guide
	Standard USB, USB <x>	Supplies Guide
	Serial <x>	Media Guide
	NetWare	Menu Map
	AppleTalk	Information Guide
	LexLink	Connection Guide
	USB Direct	Moving Guide

Supplies menu

Menu item	Description
Cyan, Magenta, Yellow, or Black Toner Low Replace Missing or Defective OK Unsupported	Shows the status of the toner cartridges
Color PC Units Life Warning Replace Missing OK Normal	Shows the status of the cyan, yellow, and magenta photoconductor units
Black PC Unit Life Warning Replace Missing OK Normal	Shows the status of the black photoconductor unit
Waste Toner Box Near Full Replace Missing OK	Shows the status of the waste toner bottle
Staples G5, Staples G11, or Staples G12 Low Empty Missing OK	Shows the status of the staples
Hole Punch Box Full Missing OK	Shows the status of the hole punch box

Paper menu

Default Source menu

Menu item	Description
Default Source Tray <x> MP Feeder Manual Paper Manual Env	Sets a default paper source for all print jobs **Notes:** • From the Paper menu, Configure MP must be set to Cassette in order for MP Feeder to appear as a menu setting. • 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, the trays are automatically linked. When one tray is empty, the job prints using the linked tray.

Paper Size/Type menu

Menu item	Description
Tray <x> Size 11 x 17 A3 A4 A5 JIS B4 JIS B5 Folio Legal Letter Statement	Specifies the paper size loaded in each tray **Notes:** • Letter is the US factory default setting. A4 is the international factory default setting. • For trays with automatic size sensing, only the size detected by the hardware appears. • If the same size and type of paper are in two trays and the Paper Size and Paper Type settings match, the trays are automatically linked. When one tray is empty, the job prints using the linked tray.
Tray <x> Type Plain Paper Card Stock Transparency Glossy Bond Letterhead Preprinted Colored 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.
Note: Only installed trays, drawers, and feeders are listed in this menu.	

Menu item	Description
MP Feeder Size 11 x 17 A3 A4 A5 Executive Folio JIS B4 JIS B5 Legal Letter Statement Universal 7 3/4 Envelope 10 Envelope DL Envelope C5 Envelope B5 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 to appear as a menu setting. • Letter is the US factory default setting. A4 is the international factory default setting. • The multipurpose feeder does not automatically sense paper size. The paper size value must be set.
MP Feeder Type Plain Paper Card Stock Transparency Glossy Labels Bond Envelope Letterhead Preprinted Colored 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 to appear as a menu selection. • Plain paper is the factory default setting.
Manual Paper Size 11 x 17 A3 A4 A5 Executive Folio JIS B4 JIS B5 Legal Letter Statement Universal	Specifies the size of the paper being manually loaded **Note:** Letter is the US factory default setting. A4 is the international factory default setting.
Note: Only installed trays, drawers, and feeders are listed in this menu.	

Menu item	Description
Manual Paper Type Plain Paper Card Stock Transparency Glossy Labels Bond Letterhead Preprinted Colored 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 10 Envelope C5 Envelope B5 Envelope DL Envelope	Specifies the size of the envelope being manually loaded **Note:** 10 Envelope is the US factory default setting. DL Envelope is the international factory default setting.
Manual Envelope Type Envelope Custom Type <x>	Specifies the type of envelope being manually loaded **Note:** Envelope is the factory default setting.
Note: Only installed trays, drawers, and feeders are listed in this menu.	

Configure MP menu

Menu item	Description
Configure MP Cassette Manual	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.

Substitute Size menu

Menu item	Description
Substitute Size Off Statement/A5 Letter/A4 11 x 17/A3 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.
Glossy Texture Smooth Normal Rough	Specifies the relative texture of the Glossy 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.
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.

Menu item	Description
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.
Custom <x> Texture Smooth Normal Rough	Specifies the relative texture of the custom paper 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.
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.
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.
Notes: • Duplex sets the printer default to 2-sided printing for every print job unless 1-sided printing is selected from Print Properties. • If Duplex is selected, all print jobs are sent through the duplex unit including 1-sided jobs.	

Menu item	Description
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.
Glossy Loading Duplex Off	Determines whether 2-sided printing occurs for all jobs that Glossy as the paper type **Note:** Off is the factory default setting.
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.
- If Duplex is selected, all print jobs are sent through the duplex unit including 1-sided jobs.

Custom Types menu

Menu item	Definition
Custom Type <x> Paper Card Stock Transparency Glossy Labels Bond 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 page. **Notes:** • Paper is the factory default setting. • **Custom Type <x>** appears unless a user-defined Custom Name is configured from the Embedded Web server or MarkVision. • The custom media type must be supported by the selected tray or multipurpose feeder in order to print from that source.

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 3–48 inches 76–1219 mm	Sets the portrait width **Notes:** • If the width exceeds the maximum, the printer uses the maximum width allowed. • 12 inches is the US factory default setting. Inches can be increased in 0.01-inch increments. • 305 mm is the international factory default setting. Millimeters can be increased in 1-mm increments.
Portrait Height 3–48 inches 76–1219 mm	Sets the portrait height **Notes:** • If the height exceeds the maximum, the printer uses the maximum height allowed. • 19 inches is the US factory default setting. Inches can be increased in 0.01-inch increments. • 483 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 **Notes:** • Short Edge is the factory default setting. • Long Edge appears only if the longest edge is shorter than the maximum length supported in the tray.

Bin Setup menu

Menu Item	Description
Output Bin Standard Bin Bin 1 Bin 2	Identifies installed output bins **Note:** Standard Bin is the factory default setting.

Menu Item	Description
Configure Bins Mailbox Link Link Optional Type Assignment	Specifies configuration options for output bins **Notes:** • Mailbox is the factory default setting. • The booklet-maker bin (Bin 2) cannot be linked to another bin. Bin 2 folds all print jobs. • The Mailbox setting treats each bin as a separate mailbox. • The Link setting links together all available output bins. • The Link Optional setting links together all available output bins except the standard bin. • The Type Assignment setting assigns each paper type to an output bin.
Assign Type/Bins Plain Paper Bin Card Stock Bin Transparency Bin Glossy Bin Labels Bin Bond Bin Letterhead Bin Preprinted Bin Colored Bin Custom <x> Bin	Selects an output bin for each supported paper type Available selections for each type are: Disabled Standard Bin Bin 1 **Notes:** • Disabled is the factory default setting. • The factory default setting will change to Standard Bin if the Configure Bins menu is set to Type Assignment. Then, all print jobs will be sent to the standard exit bin until you reassign paper types to different bins by using the Assign Type/Bins menu.

Reports menu

Reports menu

Menu item	Description
Menu Settings Page <none>	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 **Note:** The page prints when this item is selected.
Device Statistics <none>	Prints a report containing printer statistics such as supply information and details about printed pages **Note:** The page prints when this item is selected.

Menu item	Description
Network Setup Page <none>	Prints a report containing information about the network printer settings, such as the TCP/IP address information **Notes:** • This menu item appears only for network printers or printers connected to print servers. • The page prints when this item is selected.
Network <x> Setup Page <none>	Prints a report containing information about the network printer settings, such as the TCP/IP address information **Notes:** • This selection is available when more than one network option is installed. • This menu item appears only for network printers or printers connected to print servers. • The page prints when this item is selected.
Wireless Setup Page <none>	Prints a report containing information about the wireless network settings, such as TCP/IP address information **Notes:** • This menu item appears only for printers with an optional wireless print server installed. • The page prints when this item is selected.
Profiles List <none>	Prints a list of profiles stored in the printer **Note:** The page prints when this item is selected.
NetWare Setup Page <none>	Prints a report containing NetWare-specific information about the network settings **Notes:** • This menu item appears only for printers with an internal print server installed. • The page prints when this item is selected.
Print Fonts PCL Fonts PostScript Fonts PPDS Fonts	Prints a report of all the fonts available for the printer language currently set in the printer **Note:** A separate list is available for PCL, PostScript, and PPDS emulations.
Print Directory <none>	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. • The page prints when this item is selected.

Settings menu

Setup 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.
Power Saver Disabled 2–240	Sets the amount of time in minutes the printer waits after a job is printed before it goes into a reduced power state **Notes:** • Disabled does not appear unless Energy Conserve is set to Off. • The factory default setting depends on the printer model. Print a menu settings page to view the current setting. • Lower settings conserve more energy, but may require longer warm-up times. • Select the lowest setting if the printer shares an electrical circuit with room lighting or you notice lights flickering in the room. • Select a high setting if the printer is in constant use. Under most circumstances, this keeps the printer ready to print with minimum warm-up time.

Menu item	Description
Standby Mode Disabled 1–240	Sets the amount of time in minutes the printer waits—in a ready-to-print state, after a job is printed—before passing into Power Saver mode **Notes:** • Disabled is the factory default setting. • This setting must be less than or equal to the Power Saver mode setting.
Alarms Alarm Control Toner Alarm Staple Alarm Hole Punch 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, Staple Alarm, and Hole Punch Alarm. Off means no alarm will sound. • Continuous repeats three beeps every 10 seconds. • Stapler Alarm and Hole Punch Alarm are available only when the finisher is installed.
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.
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.

Menu item	Description
Timeouts Network Job Timeout 0–255	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, the setting will be saved as 10.
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.
Printer Language PCL Emulation PS Emulation PPDS 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. PPDS emulation uses a PPDS interpreter for processing print jobs. • The factory default printer language varies depending on the type of printer purchased. • Setting a printer language as the default does not prevent a software program from sending print jobs that use another printer language.

Menu item	Description
Print Area Normal Whole Page	Sets the logical and physical printable area **Notes:** • 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, PPDS, 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.
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%.
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.

Menu item	Description
Factory Defaults Do Not Restore Restore	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.

Finishing menu

Menu item	Description
Duplex On Off	Specifies whether duplex (2-sided) printing is set as the default for all print jobs **Notes:** • Off is the factory default setting. • To set 2-sided printing from the software program, click **File > Print**, and then click **Properties**, **Preferences**, **Options**, or **Setup**.
Duplex Bind 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 **Notes:** • 1 is the factory default setting. • To specify the number of copies for a specific print job, from the software program, click **File > Print**, and then click **Properties**, **Preferences**, **Options**, or **Setup**. Software settings always override control panel settings.
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.
Collation On Off	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 Copy menu setting.

Menu item	Description
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, all page 2's, and so on. • 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> MP 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 MP Feeder to appear as a menu setting.
Multipage Print 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 N-up or Paper Saver. **Notes:** • Off is the factory default setting. • The number selected is the number of page images that will print per side.
Multipage Order Horizontal Vertical Reverse Horizontal Reverse Vertical	Specifies the positioning of multiple-page images when using Multipage Print **Notes:** • Horizontal is the factory default setting. • Positioning depends on the number of images and whether the images are in portrait or landscape orientation.
Multipage View Auto Long Edge Short Edge	Specifies the orientation of a multiple-page sheet **Notes:** • Auto is the factory default setting. The printer chooses between portrait and landscape. • Long Edge uses landscape. • Short Edge uses portrait.
Multipage Border None Solid	Prints a border around each page image when using Multipage Print **Note:** None is the factory default setting.

Menu item	Description
Staple Job Off Auto Front Back 2 Staples 4 Staples	Specifies the number and position of staples on a print job **Notes:** • This menu is available only when the finisher is installed. • Off is the factory default setting. Print jobs are not stapled. • Auto corner staples every print job. • Envelopes are not stapled.
Hole Punch On Off	Specifies whether a print job receives hole-punch finishing **Notes:** • This menu is available only when the finisher is installed. • Off is the factory default setting. Print jobs are not hole punched. • The On setting instructs the finisher to hole punch every print job.
Hole Punch Mode 2 holes 3 holes 4 holes	Specifies the number of holes punched **Notes:** • 3 is the US factory default setting. The 3 holes setting is available only for the 3-hole finisher. • 4 is the international factory default setting. The 4 holes setting is available only for the 4-hole finisher. • This menu is available only when the finisher is installed.
Offset Pages None Between Copies Between Jobs	Stacks copies or print jobs into staggered sets in an output bin **Notes:** • None is the factory default setting. No pages are offset during the print job. • Between Copies offsets each copy of a print job. • Between Jobs offsets each print job.

Quality menu

Menu item	Description
Print Mode Color Black Only	Specifies whether images are printed in monochrome grayscale or in color **Note:** Color is the factory default setting.
Color Correction Auto Off Manual	Adjusts the color output on the printed page **Notes:** • Auto is the factory default setting. Auto applies different color conversion tables to each object on the printed page. • Off turns off color correction. • Manual allows customization of the color tables using the settings available from the Manual Color menu. • Due to the differences in additive and subtractive colors, certain colors that appear on computer monitors are impossible to duplicate on the printed page.

Menu item	Description
Print Resolution 2400 IQ	Specifies the printed output resolution **Note:** 2400 IQ is the factory default setting.
Toner Darkness 1–5	Lightens or darkens the printed output **Notes:** • 4 is the factory default setting. • Selecting a smaller number can help conserve toner. • If Print Mode is set to Black Only, a setting of 5 increases toner density and darkness to all print jobs. • If Print Mode is set to Color, a setting of 5 is the same as a setting of 4.
Color Saver On Off	Reduces the amount of toner used for graphics and images. The amount of toner used for text is not reduced. **Notes:** • Off is the factory default setting. • On overrides Toner Darkness settings.
RGB Brightness -6–6	Adjusts brightness in color outputs **Notes:** • 0 is the factory default setting. • -6 is the maximum decrease. 6 is the maximum increase. • This does not affect files where CMYK color specifications are being used.
RGB Contrast 0–5	Adjusts contrast in color outputs **Notes:** • 0 is the factory default setting. • This does not affect files where CMYK color specifications are being used.
RGB Saturation 0–5	Adjusts saturation in color outputs **Notes:** • 0 is the factory default setting. • This does not affect files where CMYK color specifications are being used.
Color Balance Cyan -5–5 Magenta -5–5 Yellow -5–5 Black -5–5	Adjusts color in printed output by increasing or decreasing the amount of toner being used for each color **Note:** 0 is the factory default setting.
Color Balance Reset Defaults	Restores the Color Balance factory default settings

Menu item	Description
Color Samples sRGB Display sRGB Vivid Display—True Black Vivid Off—RGB US CMYK Euro CMYK Vivid CMYK Off—CMYK	Prints sample pages for each of the RGB and CMYK color conversion tables used in the printer **Notes:** • Selecting any setting prints the sample. • Color samples consist of a series of colored boxes along with the RGB or CMYK combination that creates the color observed. These pages can be used to help decide which combinations to use to get the desired printed output. • From a browser window, type the IP address of the printer to access a complete list of color sample pages from the Embedded Web Server.
Manual Color RGB Image Vivid sRGB Display Display—True Black sRGB Vivid Off RGB Text Vivid sRGB Display Display—True Black sRGB Vivid Off RGB Graphics Vivid sRGB Display Display—True Black sRGB Vivid Off	Customizes the RGB color conversions **Notes:** • sRGB Display is the factory default setting for RGB Image. This applies a color conversion table to an output that matches the colors displayed on a computer monitor. • sRGB Vivid is the factory default setting for RGB Text and RGB Graphics. sRGB Vivid applies a color table that increases saturation. This is preferred for business graphics and text. • Vivid applies a color conversion table that produces brighter, more saturated colors. • Display—True Black applies a color conversion table that uses only black toner for neutral gray colors. • Off turns off color conversion.

Menu item	Description
Manual Color CMYK Image US CMYK Euro CMYK Vivid CMYK Off CMYK Text US CMYK Euro CMYK Vivid CMYK Off CMYK Graphics US CMYK Euro CMYK Vivid CMYK Off	Customizes the CMYK color conversions **Notes:** • US CMYK is the US factory default setting. US CMYK applies a color conversion table that tries to produce output that matches SWOP color output. • Euro CMYK is the international factory default setting. Euro CMYK applies a color conversion table that tries to produce output that matches EuroScale color output. • Vivid CMYK increases color saturation for the US CMYK color conversion table. • Off turns off color conversion.
Enhance Fine Lines <none>	Enables a print mode preferable for files such as architectural drawings, maps, electrical circuit diagrams, and flow charts **Notes:** • Enhance Fine Lines is not available from the control panel menus. • To set Enhance Fine Lines from the software program, with a document open, click **File > Print**, and then click **Properties**, **Preferences**, **Options**, or **Setup**. • To set Enhance Fine Lines using the Embedded Web Server, type the network printer IP address in a browser window.

Utilities menu

Menu item	Description
Factory Defaults Do Not Restore Restore	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. • All printer settings are returned to factory default settings except Display Language and the settings in the Parallel menu, Serial menu, Network menu, and USB menu. • All downloads stored in RAM are deleted. Downloads stored in flash memory or on the printer hard disk are not affected.

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 USB flash memory devices, and other types of held jobs are not affected • Selecting Not Restored removes all Print and Hold jobs that were *not* restored from the disk.
Format Flash No Yes	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. • No cancels the format request. • Selecting Yes deletes all data stored in flash memory.
Defragment Flash No Yes	Prepares the flash memory to receive new data by retrieving lost storage space **Warning—Potential Damage:** Do not turn off the printer while the flash memory is defragmenting. **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. • No cancels the defragment request. • Selecting Yes reformats the flash memory after transferring all downloads to regular printer memory. When formatting is complete, the downloads are loaded back into flash memory.
Format Disk No Yes	Formats 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. The disk must not be Read/Write or Write protected. • No cancels the format request. • Selecting Yes deletes all stored data and reformats the printer hard disk.
Wipe Disk (secure) No Yes	Formats the printers hard disk **Notes:** • No is the factory default setting. • Selecting Yes will render all data on the hard disk unrecoverable even when reverse engineering is attempted. This process may take up to eleven hours.

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. **`Clearing job account statistics`** appears on the display. • The Clear selection will not appear if Job Accounting is set to MarkTrack™.
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 Hex Trace, turn the printer off or reset the printer.
Coverage Estimator Off On	Provides an estimate of the percentage coverage of cyan, magenta, yellow, and black on a page. The estimate is printed on a separator page. **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%.
Image Smoothing On Off	Enhances the contrast and sharpness of low-resolution images and smooths their color transitions **Notes:** • Off is the factory default setting. • Image Smoothing has no effect on images that are 300 dpi or higher in resolution.

PCL Emul menu

Menu item	Description
Font Source Resident Disk Flash Download 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 RAM. • Flash and Disk settings show all fonts resident in that option. • Flash option must be properly formatted and cannot be Read/Write, Write, or password protected. • Download shows all the fonts downloaded into RAM. • All shows all fonts available to any option.
Font Name RO Courier	Identifies a specific font and the option where it is stored **Notes:** • RO Courier is the factory default setting. • RO Courier shows the font name, font ID, and storage location in the printer. The font source abbreviation is R for Resident, F for Flash, K for Disk, and D for download.

Menu item	Description
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.
PCL Emulation Settings Point Size 1.00–1008.00	Changes the point size for scalable typographic fonts **Notes:** • 12 is the factory default setting. • Point Size refers to the height of the characters in the font. One point equals approximately 1/72 of an inch. • Point sizes can be increased or decreased in 0.25-point increments.
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 (cpi). • Pitch can be increased or decreased in 0.01-cpi 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 60 64	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 before 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.

Menu item	Description
PCL Emulation Settings Auto CR after LF On Off	Specifies whether the printer automatically performs a carriage return (CR) after a line feed (LF) control command **Notes:** • Off is the factory default setting. • Setting alterations are duplicated in the PPDS menu.
PCL Emulation Settings Auto LF after CR On Off	Specifies whether the printer automatically performs a line feed (LF) after a carriage return (CR) control command **Notes:** • Off is the factory default setting. • Setting alterations are duplicated in the PPDS menu.
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 is only displayed 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 None	Displays the factory default setting assigned to each tray, drawer, or feeder
Tray Renumber Restore Defaults Yes No	Returns all tray, drawer, and feeder assignments to the factory default settings

PPDS menu

Menu item	Description
Orientation Portrait Landscape	Sets the orientation of the text and graphics on the page **Notes:** • Portrait is the factory default setting. • Settings are duplicated in the PCL Emulation menu.
Lines per Page 1–255	Sets the number of lines that print on each page **Notes:** • 64 is the factory 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 before setting Lines per Page.
Lines per Inch 0.25–30.00	Sets the number of lines that print per inch **Notes:** • 6 is the factory default setting. • Lines per Inch can be increased or decreased in 0.25-inch increments
Page Format Print Whole	Sets the logical and physical printable area of the page **Notes:** • Print is the factory default setting. Print data maintains its position with respect to edge of the paper. • When Whole is selected, document margins are calculated from the top left corner of the physical edge of the page. • Printing does not occur outside the printable area.
Character Set 1 2	Specifies a default character set for PPDS print jobs **Notes:** • 2 is the factory default setting. Character Set 2 is composed of printable characters and symbols used in non-US English languages. • When Characters Set 1 is selected, values given to the printer are interpreted as printer commands.
Best Fit On Off	Replaces a missing font with a similar font **Note:** On is the factory default setting. If the requested font is not found, the printer will use a similar font.
Tray 1 Renumber Off Tray 2	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. • Tray 2 is displayed only when it is installed.

Menu item	Description
Auto CR after LF On Off	Specifies whether the printer automatically performs a carriage return (CR) after a line feed (LF) control command **Notes:** • Off is the factory default setting. • Settings are duplicated in the PCL Emulation menu.
Auto LF after CR On Off	Specifies whether the printer automatically performs a line feed (LF) after a carriage return (CR) control command **Notes:** • Off is the factory default setting. • Settings are duplicated in the PCL Emulation menu.

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 **Note:** The Times font will be used in HTML documents that do not specify a font.

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.

Menu item	Description
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.
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.

Security 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 factory default setting. • This menu item appears only if a printer hard disk is installed. • Once the limit is reached, the confidential print jobs for that user name 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 **Note:** Off is the factory default setting.

Network/Ports menu

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.

Menu item	Description
TCP/IP View Hostname	Shows the current TCP/IP hostname
TCP/IP Address Netmask Gateway	Lets you view or change the current TCP/IP address information **Note:** This is a four-field IP address.

Menu item	Description
TCP/IP Enable DHCP On Off Enable RARP On Off Enable BOOTP On Off AutoIP On Off Enable FTP/TFTP On Off HTTP Server Enabled On Off	Lets you view or change the setting **Note:** On is the factory default setting.
TCP/IP WINS Server Address DNS Server Address	Lets you view or change the setting **Note:** This is a four-field IP 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.

Menu item	Description
IPv6 Enable IPv6 Yes No	Enables IPv6 in the printer **Note:** Yes is the factory default setting.
IPv6 Auto Configuration On Off	Enables the network adapter to accept the automatic IPv6 address configuration entries provided by a router **Note:** On is the factory default setting.
IPv6 View Hostname View Address View Router Address	Shows the setting

Menu item	Description
IPv6 Enable DHCPv6 Off On	Enables DHCPv6 in the printer **Note:** Off 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 network models or printers attached to print servers when an optional wireless internal print server is installed in the printer.

Menu item	Description
Mode Infrastructure Ad hoc	Lets you select a mode **Notes:** • Infrastructure mode makes the printer wireless network accessible through an access point. • Ad hoc mode configures the printer for peer-to-peer wireless networking.
Network Name <list of available network names>	Lets you select an available network for the printer to use

Standard Network and Network <x> menus

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.

Menu item	Description
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 control panel and then exiting the menus causes the printer to restart. The menu selection is updated.
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 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 Network Buffer, disable or reduce the size of the parallel, serial, and USB buffers. • Changing this setting from the control panel and then exiting the menus causes the printer to restart. The menu selection is updated.
Job Buffering On Off Auto	Temporarily stores jobs on the printer hard disk before printing **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 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.

Standard USB and USB <x> menus

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 control panel and then exiting the menus causes the printer to restart. The menu selection is updated.
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 1k 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 control panel and then exiting the menus causes the printer to restart. The menu selection is updated.

Menu item	Description
Job Buffering On Off 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 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.
ENA Address <none>	Sets the network address 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.
ENA Netmask <none>	Sets the netmask 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.
ENA Gateway <none>	Sets the 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.

Serial <x> menu

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.

Menu item	Description
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 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 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 Serial Buffer, disable or reduce the size of the parallel, serial, and network buffers. • Changing this setting from the 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 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 control panel and then exiting the menus causes the printer to restart. The menu selection is updated.

Menu item	Description
Serial Protocol DTR DTR/DSR XON/XOFF XON/XOFF/DTR XONXOFF/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 only displayed in the Standard Serial menu. These settings do not appear in the Serial Option 1, Serial Option 2, or Serial Option 3 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.
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.

NetWare menu

Menu item	Description
View Login Name <none>	Shows the assigned NetWare login name
View Print Mode <none>	Shows the assigned NetWare print mode
View Network Number <none>	Shows the assigned NetWare network number
Activate On Off	Activates or deactivates NetWare support **Note:** On is the factory default setting.
Ethernet 802.2 On Off	Enables the Ethernet 802.2 frame type setting **Note:** On is the factory default setting.
Ethernet 802.3 On Off	Enables the Ethernet 802.3 frame type setting **Note:** On is the factory default setting.
Ethernet Type II On Off	Enables the Ethernet Type II frame type setting **Note:** On is the factory default setting.
Ethernet SNAP On Off	Enables the Ethernet Snap frame type setting **Note:** On is the factory default setting.
Packet Burst On Off	Reduces network traffic by allowing the transfer and acknowledgement of multiple data packets to and from the NetWare server **Note:** Off is the factory default setting.
NSQ/GSQ Mode On Off	Sets the NSQ/GSQ Mode setting **Note:** Off is the factory default setting.

AppleTalk menu

Menu item	Description
View Name <none>	Shows the assigned AppleTalk name
View Address <none>	Shows the assigned AppleTalk address
Activate Off On	Activates or deactivates AppleTalk support **Note:** On is the factory default setting.

Menu item	Description
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.

LexLink menu

Menu item	Description
View Nickname <none>	Shows the assigned LexLink nickname
Activate On Off	Activates or deactivates LexLink support **Note:** On is the factory default setting.

USB Direct menu

Menu item	Description
USB Direct Enable Disable	Specifies whether support for the USB Direct interface on the control panel is enabled **Note:** Enable is the factory default setting. Enable must be selected in order to print directly from a device connected to the USB Direct interface.

Help menu

The Help menu consists of a series of Help pages that are stored in the printer as PDFs. They contain information about using the printer and performing printing tasks.

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	Prints all the guides
Print Quality	Provides information about solving print quality issues
Color Quality	Provides information about adjusting and customizing color printing
Printing Guide	Provides information about loading paper and other speciality media
Supplies Guide	Provides part numbers for ordering supplies
Media Guide	Provides a list of the paper sizes supported in trays, drawers, and feeders
Menu Map	Provides a list of the control panel menus and settings
Information Guide	Provides help in locating additional information
Connection Guide	Provides information about connecting the printer locally (USB) or to a network
Moving Guide	Provides instructions for safely moving the printer

Understanding printer messages

List of status and error messages

Activating Menu Changes

Wait for the message to clear.

Activating PPDS Mode

The PPDS emulator has been activated. Wait for the message to clear.

Bin <x> Full

Remove the stack of paper from the specified exit bin to clear the message.

Busy

Wait for the message to clear.

Calibrating

Wait for the message to clear.

Cancel not available

Wait for the message to clear.

Canceling

Wait for the message to clear.

Change <src> to <x>

- Press ▼ until √ **Continue** appears, and then press ✓ if the paper was changed.
- Press ▼ until √ **Use Current** appears, and then press ▼ to print on the paper currently in the printer.
- Cancel the current print job.
- For more information, select **Show Me**.

Check <src> guides

The printer cannot determine the size of the paper.

- Readjust the paper guides.

  Note: To learn how to adjust the paper guides, press ▼ repeatedly until **Show Me** appears, and then press ✓.

- Check the tray configuration.

Clearing job accounting statistics

Wait for the message to clear.

Close cover <x>

1. Press ▼ until √ **Show me** appears, and then press ✓.
   An image of the cover appears.
2. Close the specified cover to clear the message.

Close door <x>

1. Press ▼ until √ **Show me** appears, and then press ✓.
   An image of the open door appears.
2. Close the specified door.

Copies

Enter the desired number of copies.

Deactivating PPDS Mode

The PPDS emulator has been deactivated. Wait for the message to clear.

Defragmenting Flash DO NOT POWER OFF

Wait for the message to clear.

Warning—Potential Damage: Do not turn the printer off while this message appears on the display.

Delete/Delete all/Delete all confidential jobs

- Press ▼ until √ **Continue** appears, and then press ✓ to delete the specified job.
- Press ✕ to delete the job.

Deleting

Wait for the message to clear.

Disabling DLEs

Wait for the message to clear.

Disabling Menus

Wait for the message to clear.

Note: While the menus are disabled, printer settings cannot be changed from the control panel.

Disk Corrupted. Reformat?

The printer attempted to recover a disk, but was not able to do so. **Reformat** appears. Press ✓ to reformat the disk.

Note: Reformatting the disk deletes all the files currently stored on the disk.

Disk recovery x/y XX% DO NOT POWER OFF

Wait for the message to clear.

Warning—Potential Damage: Do not power off while the printer is attempting to recover the printer hard disk.

Disk recovery takes place in several phases. The percentage completed during each phase appears on the display.

Empty hole punch box

Empty the hole punch box, and then reinsert it into the finisher. Wait for the message to clear.

Note: To learn how to empty the hole punch box, press ▼ repeatedly until **Show Me** appears, and then press ✓.

Enabling Menus

Wait for the message to clear.

Encrypting disk x/y XX% DO NOT POWER OFF

Wait for the message to clear.

Warning—Potential Damage: Do not power off while the printer is encrypting the printer hard disk.

The percentage completed appears on the display.

Enter PIN

Enter the PIN you created in Print Properties when the confidential job was sent for printing.

Enter PIN to lock

Enter the PIN you created to lock the control panel and prevent menu changes.

Error reading USB drive

Remove the device and wait for the message to clear. The USB drive may be corrupted.

Flushing buffer

Wait for the message to clear.

Formatting Disk x/y XX% DO NOT POWER OFF

Wait for the message to clear.

Warning—Potential Damage: Do not power off while the printer is formatting the printer hard disk.

The percentage completed appears on the display.

Formatting Flash DO NOT POWER OFF

Wait for the message to clear.

Warning—Potential Damage: Do not power off while the printer is formatting the flash memory.

Incorrect orientation

Change the orientation of the paper in the tray or the position of the paper guides. Make sure the print job is requesting the correct paper size.

Insert hole punch box

Insert the hole punch box into the finisher. Wait for the message to clear.

Note: To learn how to insert the hole punch box, press ▼ repeatedly until **Show Me** appears, and then press ✓.

Insert Tray <x>

Insert the specified tray into the printer.

Internal System Error, Reload Bookmarks

1 Press ▼ until √ **Continue** appears, and then press ✓ to clear the message and continue printing.

2 Reload the bookmarks.

Internal System Error, Reload Security Certificates

- Reload the security certificates.
- Press ▼ until √ **Continue** appears, and then press ✓ to clear the message and continue printing.

Invalid Engine Code

You need to download valid engine code for the printer.

For information about downloading code, see the *User's Guide* on the *Software and Documentation* CD.

Note: Engine code may be downloaded while this message appears on the display.

Invalid file format

A file stored on the USB drive is invalid. The file extension is correct, but the file contents are not properly formatted. Convert files to any of the following supported file types: .pdf, .gif, .jpeg, .jpg, .bmp, .png, .tiff, .tif, .pcx, or .dcx.

Invalid Network Code

You need to download valid network printing code for the internal print server. The internal print server is a hardware option installed inside the printer.

Note: Network code may be downloaded while this message appears on the display.

Invalid PIN

Enter a valid PIN.

Load manual feeder with <x>

- Load the specified paper in the multipurpose feeder.

  Note: To learn how to load the multipurpose feeder, press ▼ repeatedly until **Show Me** appears, and then press ✓.

- Press ▼ repeatedly until √ **Continue** appears, and then press ✓ 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 <src> with <x>

- Load the paper tray or other source with the correct paper type and size.

  Note: To learn how to load the specified paper source, press ▼ repeatedly until **Show Me** appears, and then press ✓.
- Cancel the current job.

Load staples <x>

- Replace the specified staple cartridge in the finisher.

  Note: To learn how to replace the specified staple cartridge, press ▼ repeatedly until the **Show Me** message for the specified staple cartridge appears, and then press ✓.
- Press ▼ repeatedly until √ **Continue** appears, and then press ✓ to clear the message and continue printing.
- Cancel the print job.

Menus are disabled

The printer menus are disabled. The printer settings cannot be changed from the control panel. Contact your system support person for help.

Note: When menus are disabled, it is still possible to cancel a print job, print a confidential job, or print a held job.

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 held jobs

Wait for the message to clear.

No jobs to cancel

Wait for the message to clear.

No recognized file types

Either there are no files saved on the USB drive, or the files saved are not supported. Convert files to any of the following supported file types: .pdf, .gif, .jpeg, .jpg, .bmp, .png, .tiff, .tif, .pcx, or .dcx.

Power Saver

The printer is saving power while it waits for the next print job.

- Send a job to print.
- Press to warm the printer to normal operating temperature. Afterwards, **Ready** appears.

Printer locked, enter PIN to unlock

The control panel is locked. Enter the correct PIN to unlock it.

Printing

Wait for the message to clear.

Programming disk DO NOT POWER OFF

Wait for the message to clear.

Warning—Potential Damage: Do not turn the printer power off while **Programming disk** appears on the display.

Programming flash DO NOT POWER OFF

Wait for the message to clear.

Warning—Potential Damage: Do not turn the printer power off while **Programming flash** appears on the display.

Programming System Code DO NOT POWER OFF

Wait for the message to clear.

Warning—Potential Damage: Do not turn the printer power off while **Programming System Code** appears on the display.

Reading USB drive DO NOT REMOVE

Wait for the message to clear.

Ready

The printer is ready to receive print jobs.

Remote Management Active DO NOT POWER OFF

The printer settings are being configured. Wait for the message to clear.

Warning—Potential Damage: Do not turn the printer power off while **Remote Management Active** appears on the display.

Remove paper from all bins

Output bins have reached their capacity. Remove paper from all output bins to clear the message and continue printing.

Remove paper from standard bin

The standard exit bin has reached its capacity. Remove paper from the standard exit bin to clear the message and continue printing.

Remove paper from bin <x>

The specified output bin has reached its capacity. Remove paper from the specified bin to clear the message and continue printing.

Resetting the printer

Wait for the message to clear.

Restore Held Jobs?

- Press ▼ until √ **Continue** appears, and then press ✓ to restore all held jobs stored on the printer hard disk.
- Press ▼ until √ **Do not restore** appears, and then press ✓. No print jobs will be restored.

Restoring Factory Defaults

Wait for the message to clear.

When factory default settings are restored:

- All downloaded resources in the printer memory are deleted. This includes fonts, macros, and symbol sets.
- All settings return to the factory defaults except the Display Language setting in the Setup menu and the custom settings in the Serial <x>, Network, Infrared, LocalTalk, and USB menus.

Restoring Held Job(s) x/y

- Wait for the message to clear.
- Press ▼ until √ **Quit restoring** appears, and then press ✓ to delete unrestored held jobs.

Note: **x** represents the number of jobs being restored. **y** represents the total number of jobs to be restored.

Serial <x>

The printer is using a serial cable connection. The serial port is the active communication link.

Some held jobs were not restored

Press ▼ until √ **Continue** appears, and then press ✓ to delete the specified job.

Some held jobs will not be restored

- Press ▼ until √ **Continue** appears, and then press ✓ to clear the message and resume printing.
- Cancel the current job.

Standard Bin Full

Remove the stack of paper from the standard exit bin to clear the message.

Staples <x> empty or misfed

Load the specified staple cartridge into the finisher to clear the message and continue stapling.

Staples <x> low or missing

Load the specified staple cartridge in the finisher to clear the message.

Submitting Selection

Wait for the message to clear.

Tray <x> Empty

Load paper in the tray to clear the message.

Tray <x> Low

Load paper in the specified tray to clear the message.

Tray <x> Missing

Insert the specified tray into the printer.

USB/USB <x>

The printer is using a USB cable connection. The USB port is the active communication link.

Waiting

The printer has received data to print, but is waiting for an End-of-Job command, a Form Feed command, or additional data.

- Press to print the contents of the buffer.
- Cancel the current print job.

31 Missing or defective <color> cartridge

The specified toner cartridge is either missing or not functioning properly.

- Remove the specified toner cartridge, and then reinstall it.

  Note: To learn how to install a toner cartridge, press ▼ repeatedly until **Show Me** appears, and then press .

- Remove the specified toner cartridge, and then install a new one.

32 Replace unsupported <color> cartridge

Remove the specified toner cartridge, and then install a supported one.

Note: To learn how to install a toner cartridge, press ▼ repeatedly until **Show Me** appears, and then press .

34 Incorrect paper type, check <src>

- Load the appropriate paper or other specialty media in the proper tray.
- Check tray length and width guides and make sure the paper is properly loaded in the tray.
- Check the Print Properties 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.

34 Incorrect paper size, check <src>

- Load the appropriate paper or other specialty media in the proper tray.
- Press ▼ until √ **Continue** appears, and then press 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 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

- Press ▼ until √ **Continue** appears, and then press ✓ 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 for Flash Memory Defragment operation

- Press ▼ until √ **Continue** appears, and then press ✓ to stop the defragment operation and continue printing.
- Delete fonts, macros, and other data in printer memory.
- Install additional printer memory.

37 Insufficient memory to collate job

- Press ▼ until √ **Continue** appears, and then press ✓ 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, 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.

Press ▼ until √ **Continue** appears, and then press ✓ to clear the message.

38 Memory full

- Press ▼ until √ **Continue** appears, and then press ✓ to clear the message.
- Cancel the current print job.
- Install additional printer memory.

39 Page is too complex to print

- Press ▼ until √ **Continue** appears, and then press ✓ to clear the message and continue printing.
- Cancel the current print job.
- Install additional printer memory.

50 PPDS font error

- Press ▼ until √ **Continue** appears, and then press ✓ 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

- Press ▼ until √ **Continue** appears, and then press ✓ to clear the message and continue printing.
- Cancel the current print job.

52 Flash full

- Press ▼ until √ **Continue** appears, and then press ✓ to clear the message and continue printing.
  Downloaded fonts and macros not previously stored in flash memory are deleted.
- Delete fonts, macros, and other data stored in flash memory.
- Upgrade to a larger capacity flash memory card.

53 Unformatted flash detected

- Press ▼ until √ **Continue** appears, and then press ✓ 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 Serial option <x> error

- 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.
- Press ▼ until √ **Continue** appears, and then press ✓ to continue printing.
- Turn the printer power off and then back on to reset the printer.

54 Standard network software error

- Press ▼ until √ **Continue** appears, and then press ✓ to continue printing.
- Turn the printer power off and then back on to reset the printer.
- Upgrade (flash) the network firmware in the printer or print server.

54 Network <x> software error

- Press ▼ until √ **Continue** appears, and then press ✓ to continue printing.
- Turn the printer power 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>

1. Turn the printer power off.
2. Unplug the power cord from the wall outlet.

3 Remove the unsupported optional interface card or internal print server from the printer system board. For more information, see the *User's Guide* on the *Software and Documentation* CD.

4 Connect the power cord to a properly grounded outlet.

5 Turn the printer power back on.

56 Parallel port <x> disabled

- Press ▼ until √ **Continue** appears, and then press ✓ 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

- Press ▼ until √ **Continue** appears, and then press ✓ 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 USB port disabled

- Press ▼ until √ **Continue** appears, and then press ✓ 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

- Press ▼ until √ **Continue** appears, and then press ✓ 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

Press ▼ until √ **Continue** appears, and then press ✓ to clear the message.

58 Too many disks installed

1 Turn the printer power 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 power back on.

58 Too many flash options installed

1. Turn the printer power 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 power back on.

58 Too many trays attached

1. Turn the printer power 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 power back on.

61 Remove defective hard disk

- Press ▼ until √ **Continue** appears, and then press ✓ to clear the message and continue printing.
- Install a different hard disk before performing any operations that require a hard disk.

62 Disk full

- Press ▼ until √ **Continue** appears, and then press ✓ to clear the message and continue processing.
- Delete fonts, macros, and other data stored on the hard disk.
- Install a larger hard disk.

63 Unformatted disk

- Press ▼ until √ **Continue** appears, and then press ✓ to clear the message and continue printing.
- Format the disk.

If the error message remains, the hard disk may be defective and require replacing.

80 Scheduled maintenance <x>

Contact Customer Support, and report the message. The printer needs to have scheduled maintenance done.

82 Replace waste toner box

The waste toner box is full.

1 Replace the waste toner box.

Note: To learn how to replace the waste toner box, press ▼ repeatedly until **Show Me** appears, and then press ✓.

2 Clear the paper path.

82 Waste toner box missing

Insert the waste toner box.

Note: To learn how to insert a waste toner box, press ▼ repeatedly until **Show Me** appears, and then press ✓.

82 Waste toner box nearly full

Order a replacement waste toner box immediately.

- To learn how to insert a waste toner box, press ▼ repeatedly until **Show Me** appears, and then press ✓.
- Press ▼ until √ **Continue** appears, and then press ✓ to clear the message and continue printing.

84 Black pc unit life warning

The black photoconductor is near exhaustion. When the print quality diminishes, install a new photoconductor.

- To learn how to replace the black photoconductor unit, press ▼ until √ **Show Me** appears, and then press ✓.
- To ignore the message, press ▼ until √ **Ignore** appears, and then press ✓ to clear the message and continue printing.

84 color pc unit life warning

One or more of the color photoconductors are near exhaustion. When the print quality diminishes, install new cyan, magenta, and yellow photoconductors.

- To learn how to replace the color photoconductors, press ▼ until √ **Show Me** appears, and then press ✓.
- To ignore the message, press ▼ until √ **Ignore** appears, and then press ✓ to clear the message and continue printing.

84 <color> pc unit missing

Insert the missing photoconductor(s). To learn how to replace a photoconductor, press ▼ until √ **Show Me** appears, and then press ✓.

84 Replace black pc unit

The black photoconductor is exhausted. Install a new photoconductor.

Note: To learn how to replace the black photoconductor, press ▼ until √ **Show Me** appears, and then press ✓.

84 Replace color pc units

One or more of the color photoconductors are exhausted. Install new cyan, magenta, and yellow photoconductors.

Note: To learn how to replace the photoconductors, press ▼ until √ **Show Me** appears, and then press ✓.

84 Unsupported <color> pc unit

Replace the specified photoconductor(s).

Note: The printer has four photoconductors: cyan, magenta, yellow, and black. The cyan, magenta, and yellow photoconductors must all be replaced at the same time. The black photoconductor can be replaced separately.

88 <color> toner low

When this message appears, the toner is low. When the print becomes faded, replace the toner cartridge.

- To clear this message and continue printing, press ▼ until √ **Continue** appears, and then press ✓.

88 Replace <color> toner

1. The toner cartridge is exhausted. Replace the specified toner cartridge.

   Note: To learn how to replace a toner cartridge, press ▼ repeatedly until **Show Me** appears, and then press ✓.

2. Clear the paper path to clear the message and continue printing.

200–285.yy Paper jam

1. Clear the paper path.
2. After clearing the paper path, press ✓ to resume printing.

289 Staple error <x>

1. Clear the jam from the specified stapler area(s).
2. Press ▼ until √ **Continue** appears, and then press ✓ to continue printing.

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 Emul Error Load Emul 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, unplug the power cord from the wall outlet and disconnect all cables to the printer before proceeding.

2. Remove paper from the paper support and paper exit tray.
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 remove any ink residue that has accumulated on the paper exit tray.

   Warning—Potential Damage: Using a damp cloth to clean the interior may cause damage to your printer.

5. Make sure the paper support and paper exit tray are dry before beginning a new print job.

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 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 control panel

1. Make sure the printer is on and **Ready** appears.
2. From the control panel, press ▼ until √ **Status / Supplies** appears, and then press ✓.
3. Press ▼ until √ **View supplies** appears, and then press ✓.
   The status of each supply appears.

Printing a menu settings page

Print a menu settings page to review the status of the supplies.

1. Make sure the printer is on and **Ready** appears.
2. From the control panel, press 🔑.
3. Press ▼ repeatedly until √ **Reports** appears, and then press ✓.
4. Press ▼ repeatedly until √ **Menu Settings Page** appears, and then press ✓.
   Printing Menu Settings appears. After the menu settings page prints, **Ready** appears.

Checking the status of supplies from a network computer

Note: The computer must be connected to the same network as the printer.

1. Open a Web browser.
2. In the address bar, type the IP address of the network printer (for example,192.264.263.17).
3. Press **Enter**.
   The Device Status Page appears. A summary of supply levels is displayed.

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 toner cartridges

When **88 Cyan toner low**, **88 Magenta toner low**, **88 Yellow toner low**, or **88 Black toner low** appears, order a new cartridge.

When **88 Replace Cyan toner**, **88 Replace Magenta toner**, **88 Replace Yellow toner**, or **88 Replace Black toner** appears, you *must* replace the specified toner cartridge.

The recommended toner cartridges specifically designed for the printer are:

Part name	Part number
Cyan High Yield Toner Cartridge	C930H2CG
Magenta High Yield Toner Cartridge	C930H2MG
Yellow High Yield Toner Cartridge	C930H2YG
Black High Yield Toner Cartridge	C930H2KG

Ordering photoconductors

When **84 Black pc unit life warning** or **84 color pc unit life warning** appears, order replacement photoconductor(s).

Part name	Part number
Single PC Unit	C930X72G
3 Pack of PC Units	C930X73G

Ordering staple cartridges

When **Staples <x> low or missing** appears, order the specified staple cartridge. When **Staples <x> empty or misfed** or **Load staples <x>** appears, replace the specified staple cartridge.

See the illustrations inside the stapler finisher door for more information.

Part name	Part number
Staple Cartridges–3 pack (Staples G5)	25A0013
Advanced Booklet Staples (Staples G11 and Staples G12)	21Z0357

Ordering a waste toner box

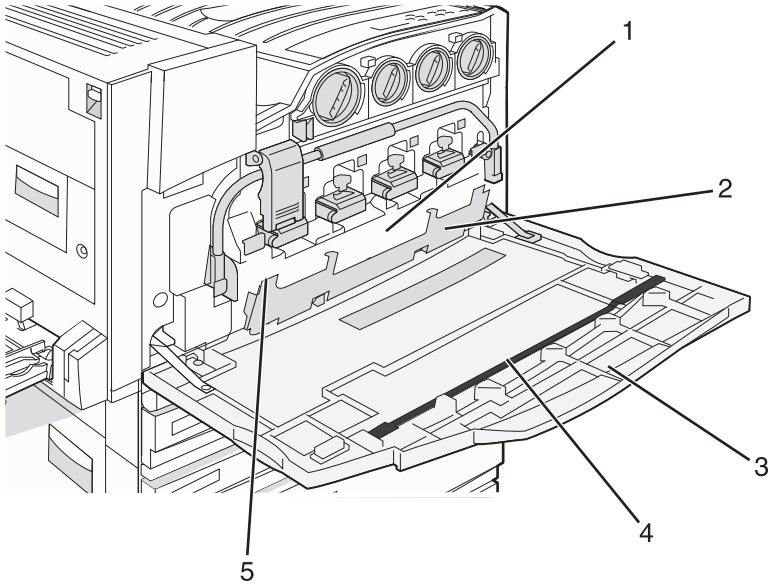
When **82 Waste toner box nearly full** appears, order a replacement waste toner box. The waste toner box *must* be replaced when **82 Replace waste toner box** appears.

Part name	Part number
Waste Toner Box	C930X76G

Replacing supplies

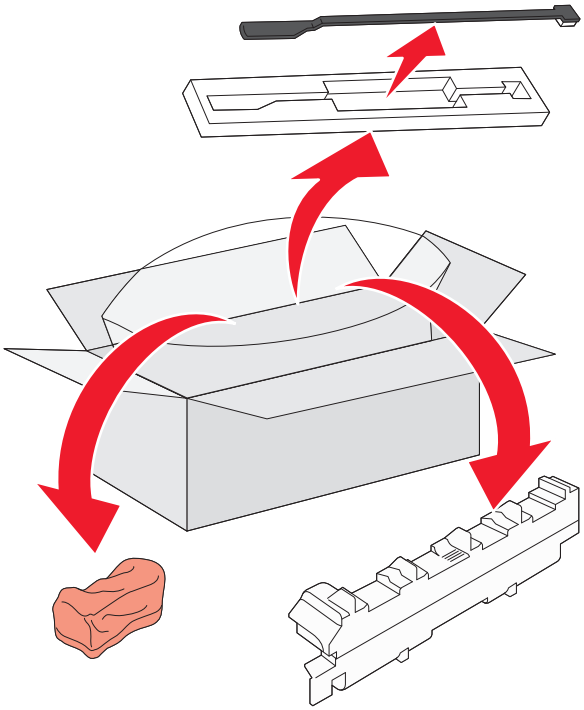
Replacing the waste toner box

Replace the waste toner box when **82 Replace waste toner box** appears. The printer will not continue printing until the waste toner box is replaced.

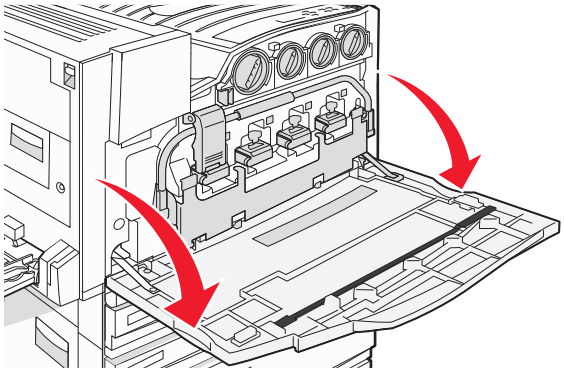


1	Waste toner box
2	Door E6
3	Door E
4	Printhead lens cleaner
5	E6 Door tab

1 Unpack the replacement waste toner box and accessories.

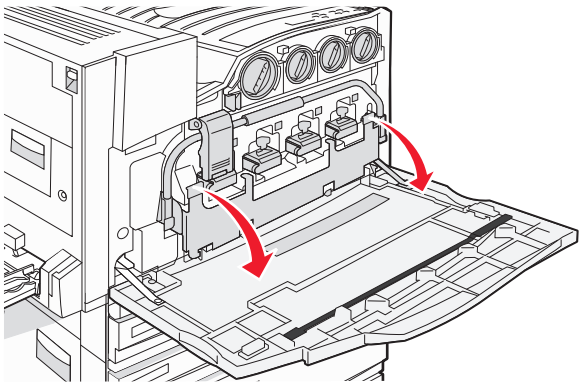


2 Open Door E (front printer door).

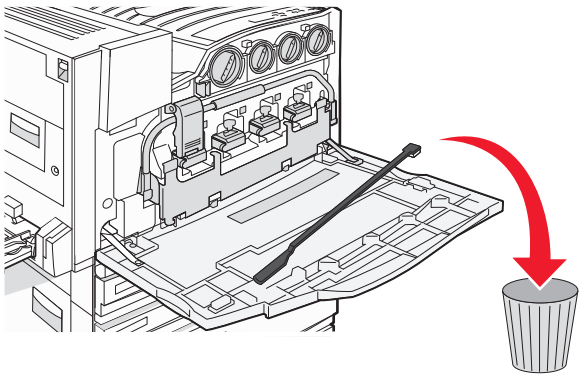


Warning—Potential Damage: To avoid overexposing the photoconductors, do not leave the door open for more than 10 minutes.

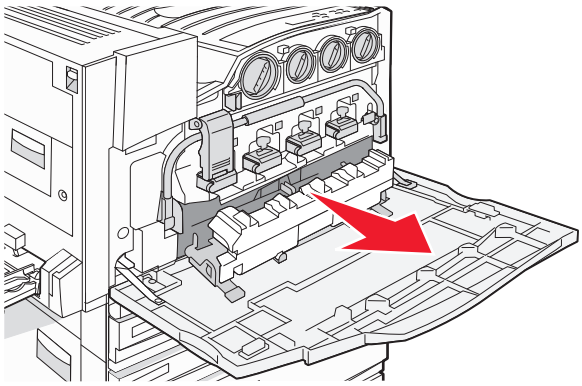
3 Grasp the E6 Door tab, and then push the door down.



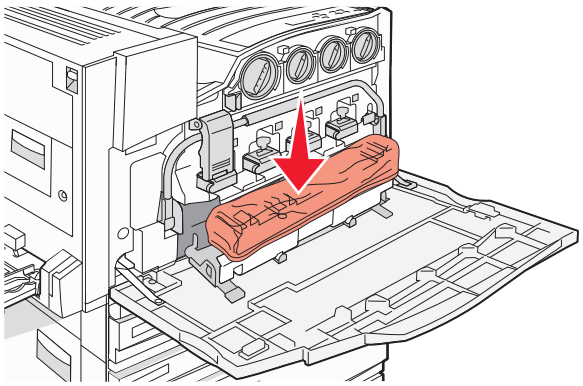
4 Remove the old printhead lens cleaner from Door E, and then discard it.



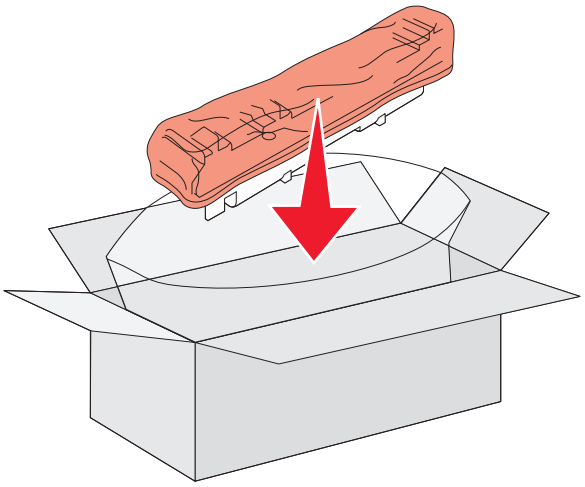
5 Remove the waste toner box.



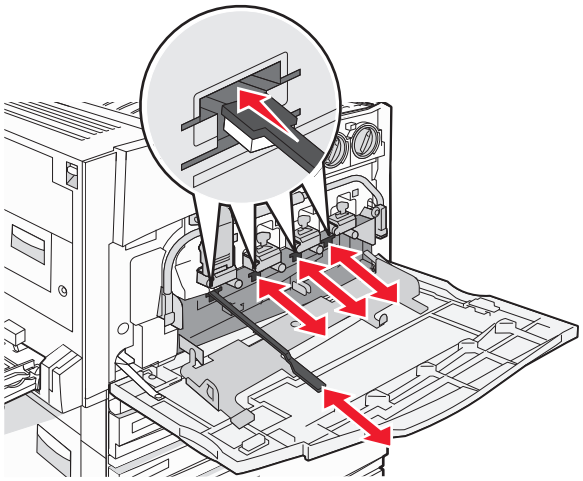
6 Place the plastic cover over the waste toner box.



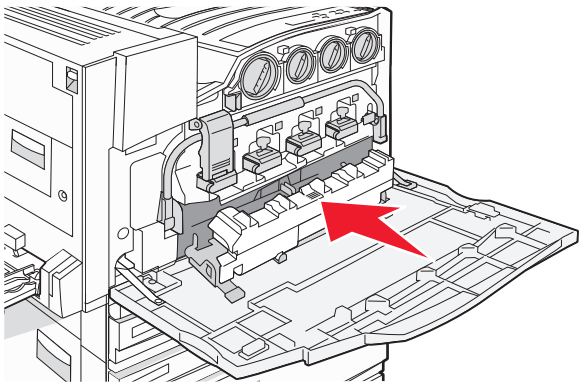
7 Place the waste toner box in the recycling bag.



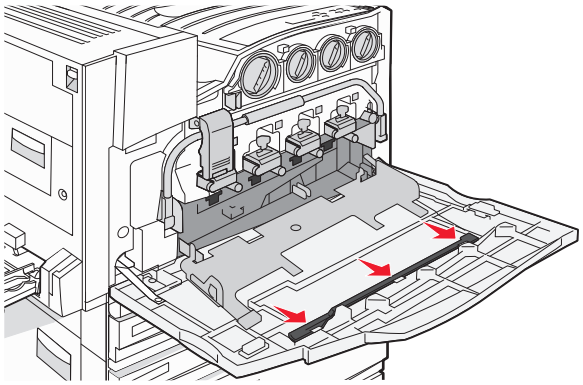
8 Use the new printhead lens cleaner to clean the printhead lenses.



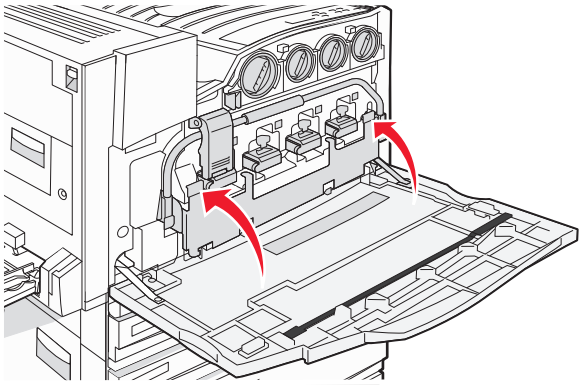
9 Insert the new waste toner box.



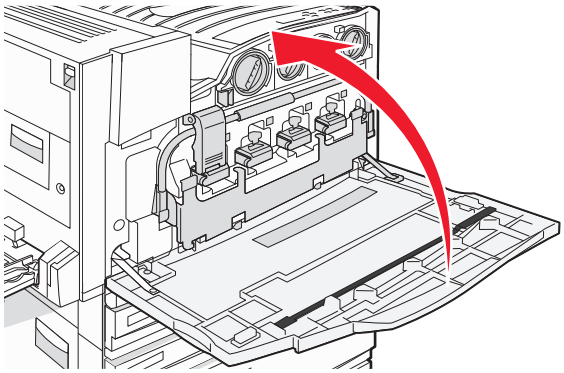
10 Place the new printhead lens cleaner in the notches of Door E.



11 Close Door E6.



12 Close Door E.

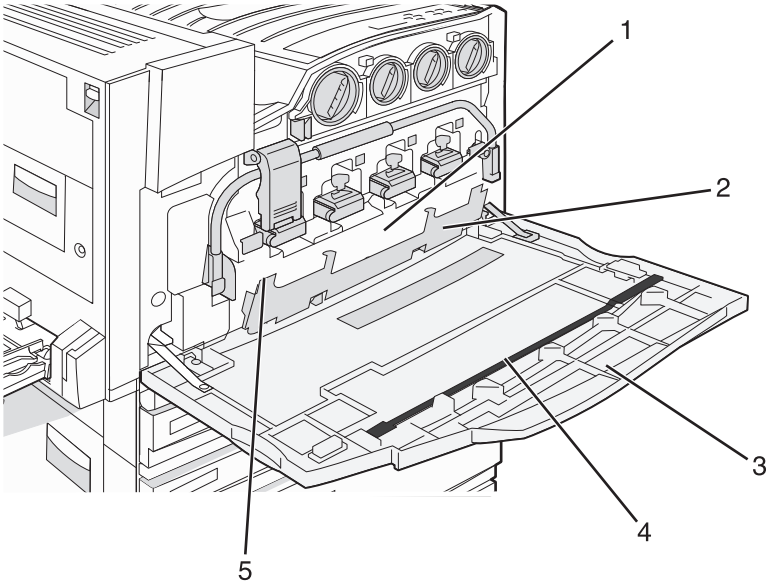


13 Remove all paper from the printer paper path.

Visit **www.lexmark.com/recycling** to learn how to recycle the waste toner box.

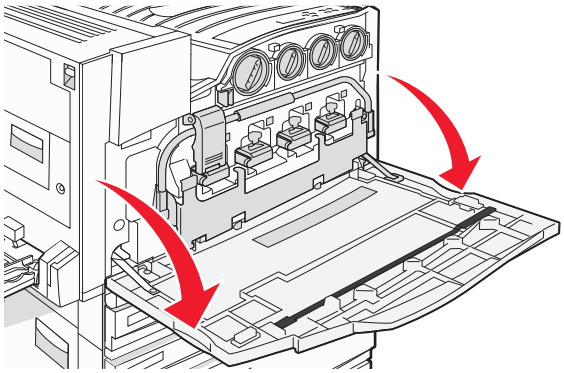
Cleaning the printhead lenses

Clean the printhead lenses when you replace the waste toner box or when you encounter print quality problems.



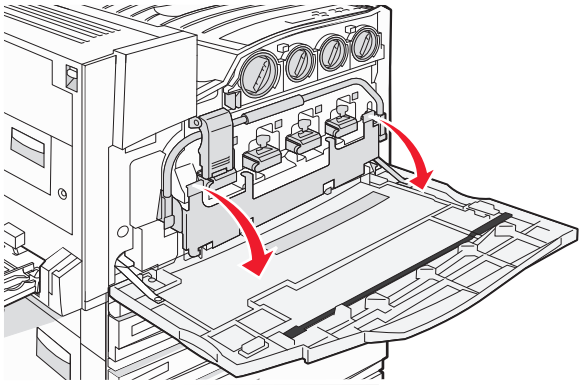
1	Waste toner box
2	Door E6
3	Door E (front door)
4	Printhead lens cleaner
5	E6 Door tab

1 Open Door E (front door).

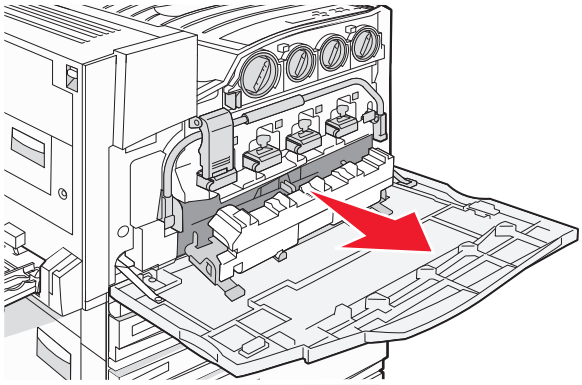


Warning—Potential Damage: To avoid overexposing the photoconductors, do not leave the door open for more than 10 minutes.

2 Grasp the E6 Door tab, and then push the door down.

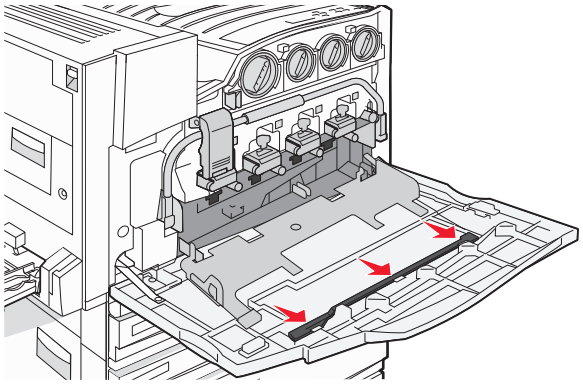


3 Remove the waste toner box.

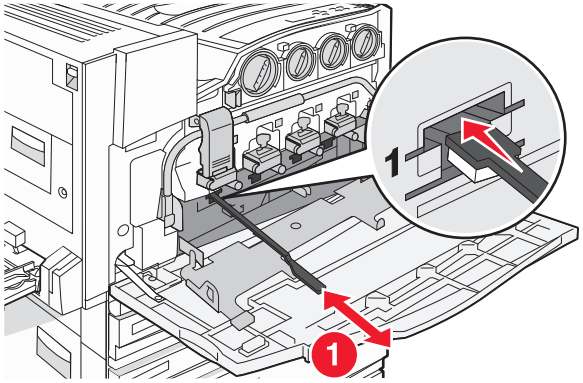


4 Locate and remove the printhead lens cleaner from Door E.

Note: If you are replacing the waste toner box, use the printhead lens cleaner that shipped with it.

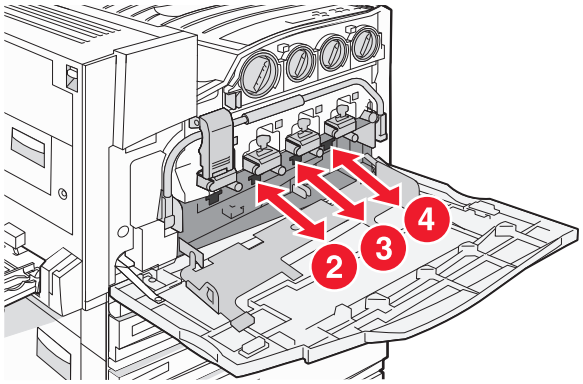


5 Insert the padded tip of the printhead lens cleaner into the first printhead lens opening.

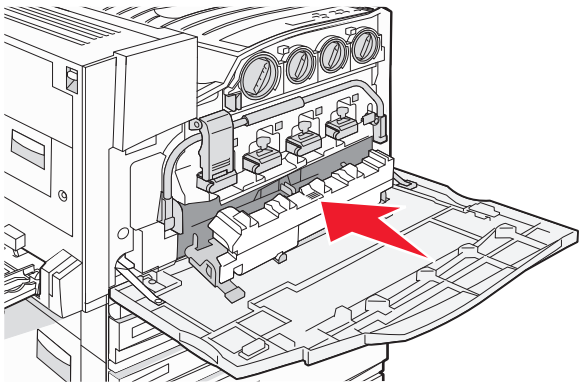


6 Push the printhead lens cleaner all the way to the back of the lens, and then pull it out.

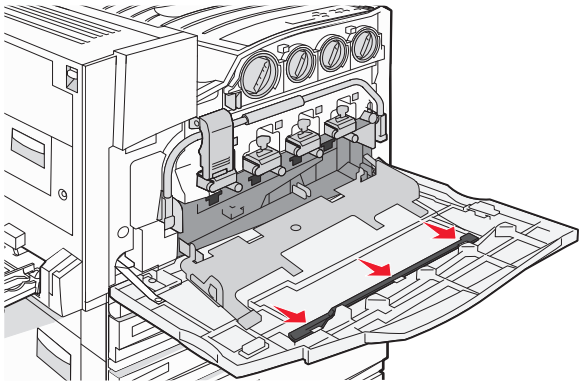
7 Clean the remaining three printhead lenses.



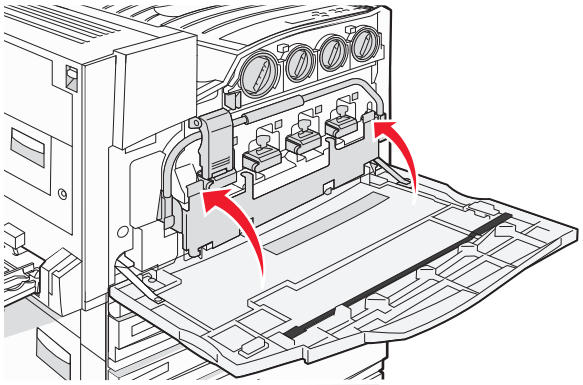
8 Insert the waste toner box.



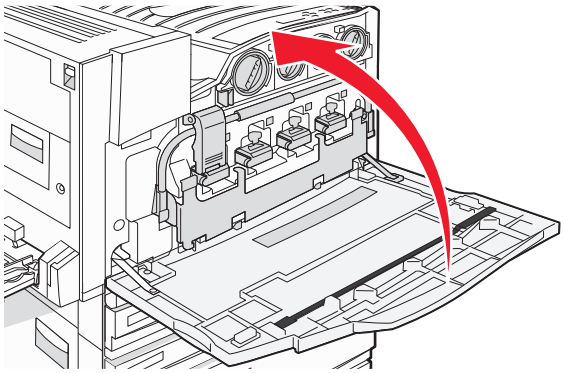
9 Place the printhead lens cleaner in the notches of Door E.



10 Close Door E6.



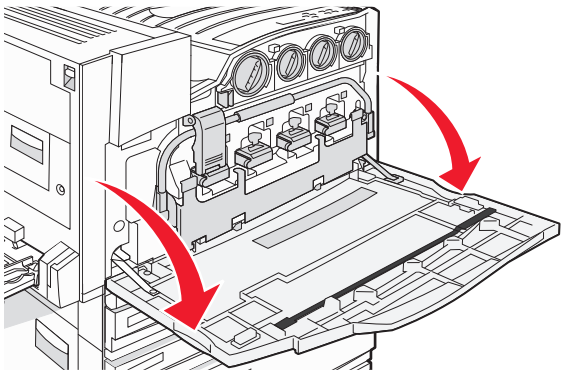
11 Close Door E.



Replacing a photoconductor

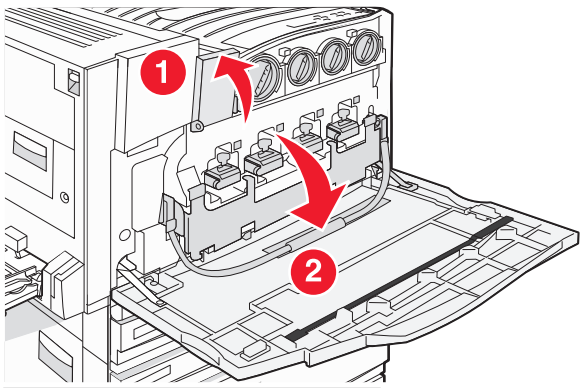
Replace the black photoconductor when **`84 Replace black pc unit`** appears. Replace the cyan, magenta, and yellow photoconductors when **`84 Replace color pc units`** appears.

1 Open Door E (front printer door).



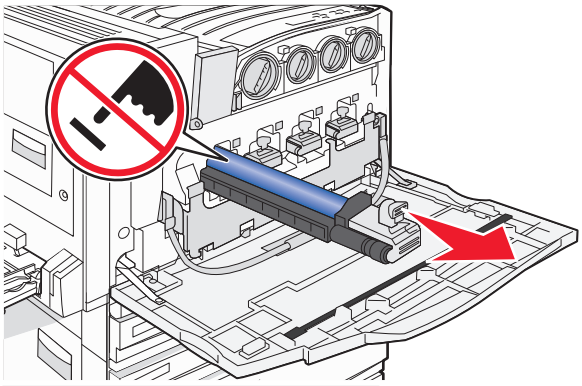
Warning—Potential Damage: To avoid overexposing the photoconductors, do not leave the door open for more than 10 minutes.

2 Release the bar by pressing the E5 button located on the bottom of the E5 latch, lift the E5 latch, and then press the bar down.



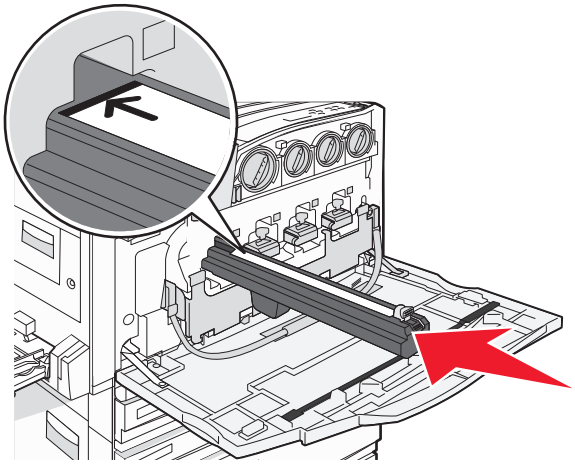
3 Remove the photoconductor(s) specified on the display.

Photoconductor color	Opening name
Black	E1
Cyan	E2
Magenta	E3
Yellow	E4

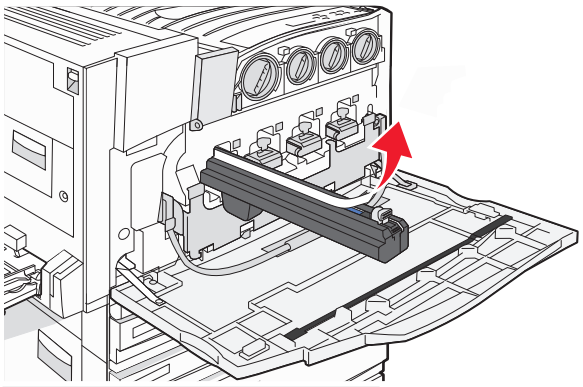


4 Unpack the replacement photoconductor.

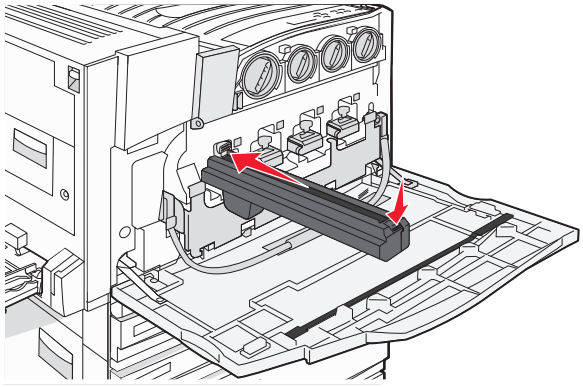
5 Align and insert the end of the photoconductor.



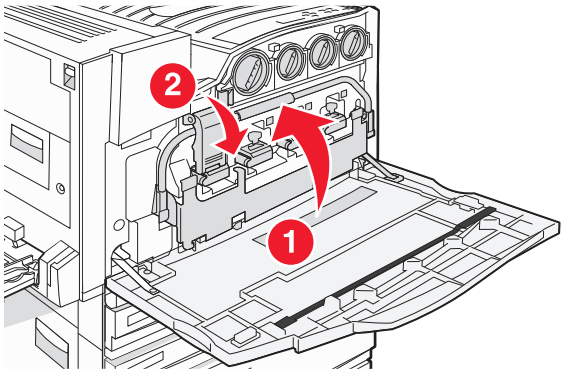
6 Remove the tape from the top of the photoconductor.



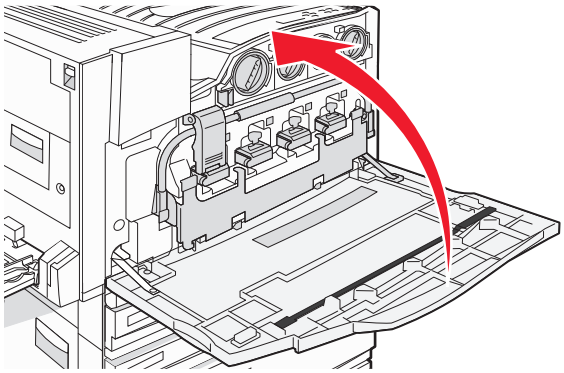
7 Press the button forward to insert the photoconductor while removing the casing.



8 Lift the bar up, and then press latch E5 down so that it holds the bar in position.



9 Close Door E.



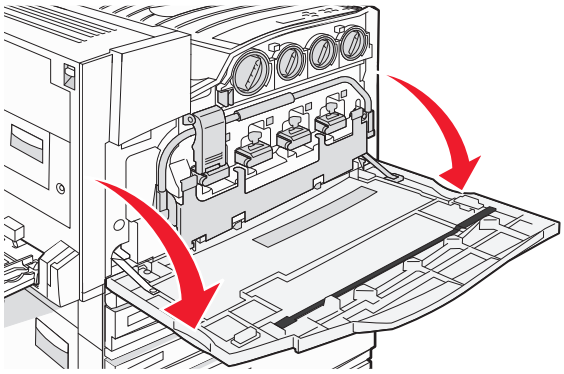
Replacing a toner cartridge

Replace the specified toner cartridge (cyan, magenta, yellow, or black) when **`88 Replace <color> toner`** appears. The printer will not continue printing until the specified cartridge is replaced.

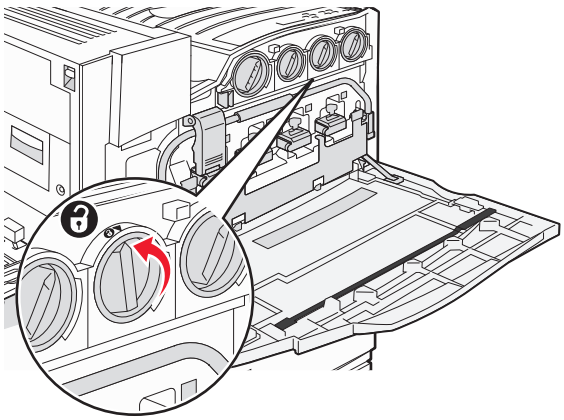
1 Make sure the printer is on and **`Ready`** or **`88 Replace <color> toner`** appears.

2 Unpack the new cartridge, and set it near the printer.

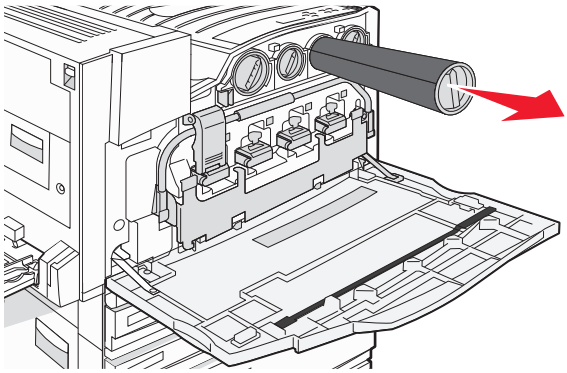
3 Open Door E (front printer door).



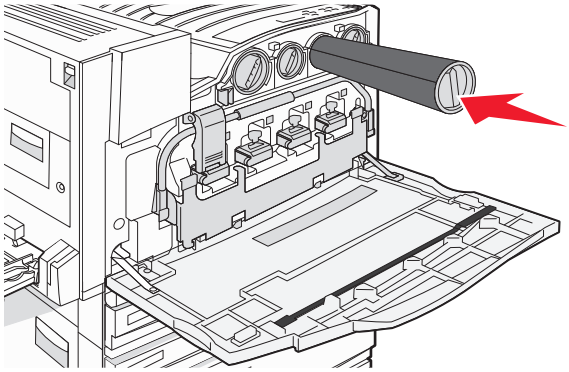
4 Unlock the specified cartridge by turning the cartridge counterclockwise until the arrow-shaped handle points toward the unlock symbol.



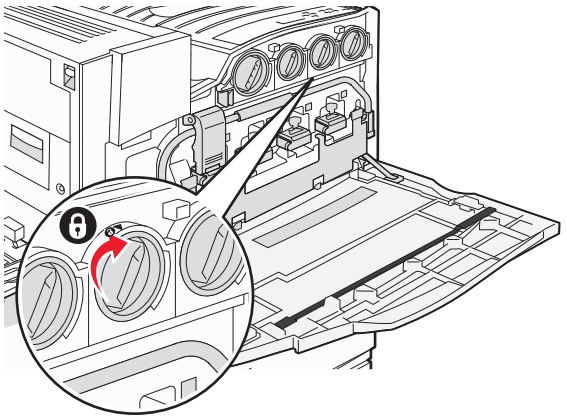
5 Remove the cartridge by gently pulling it away from the printer.



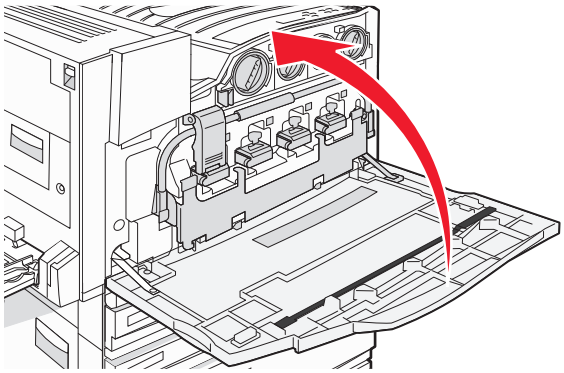
6 Align the arrow-shaped handle with the unlock symbol, and then insert the toner cartridge all the way into the opening.



7 Lock the cartridge by turning the arrow-shaped cartridge handle clockwise until it points toward the lock symbol.



8 Close Door E.



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 weighs 201 lb (91.2 kg); therefore, it requires at least four people or a properly rated mechanical handling system to lift it safely. Use the handholds on the sides of the printer to lift it, and make sure your fingers are not under the printer when you set it down. Disconnect all cords and cables from the printer before moving it.

Follow these guidelines to avoid personal injury or printer damage:

- Use at least four people or a properly rated mechanical handling system to lift the printer.
- 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.
- Remove all printer options before moving the printer.

Warning—Potential Damage: Damage to the printer caused by improper moving is not covered by the printer warranty.

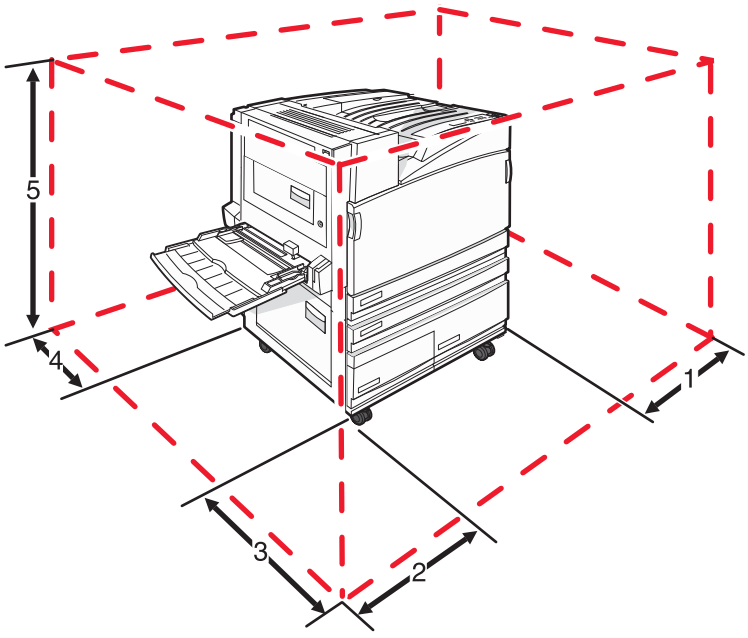
Moving the printer to another location

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

For a basic printer, or a printer with an optional finisher installed, allow the following *recommended* amount of space around the printer:



1	2 in. (50 mm)
2	2.7 ft (825 mm)
3	1.4 ft (418 mm)
4	4 in. (100 mm)
5	2.3 ft (693 mm)

Shipping the printer

When shipping the printer, use the original packaging or call the place of purchase for a relocation kit.

Administrative support

Adjusting the brightness or contrast of the display

1. Make sure the printer is on and **Ready** appears.
2. From the control panel, press .
3. Press ▼ repeatedly until √ **Settings** appears, and then press .
4. Press ▼ repeatedly until √ **Utilities Menu** appears, and then press .
5. Press ▼ repeatedly until √ appears next to **LCD Brightness** or **LCD Contrast**, and then press .

   Note: Select **LCD Brightness** to adjust the brightness setting or **LCD Contrast** to adjust the contrast setting.
6. Press ◀ repeatedly to decrease the setting or ▶ repeatedly to increase the setting, and then press .

Disabling control panel menus

Since many people often use a printer, a support person may choose to lock the control panel menus so that the settings cannot be changed from the control panel.

1. Make sure the printer is turned off.
2. From the control panel, press and hold and ▶ while turning the printer on.
3. Release both buttons when **Performing Self Test** appears.

   The printer performs its power-on sequence, and then **CONFIG MENU** appears.
4. Press ▼ repeatedly until √ **Panel Menus** appears, and then press .
5. Press ▼ repeatedly until √ appears next to **Disable**, and then press .

   Note: Select **Enable** to enable the control panel menus.
6. Press ▼ repeatedly until √ **Exit Config Menu** appears, and then press .

   The printer performs its power-on sequence, and then **Ready** appears.

Adjusting Power Saver

1. Make sure the printer is on and **Ready** appears.
2. From the control panel, press .
3. Press ▼ repeatedly until √ **Settings** appears, and then press .

4 Press ▼ repeatedly until √ **Setup Menu** appears, and then press ✓.

5 Press ▼ repeatedly until √ **Power Saver** appears, and then press ✓.

6 Press ◀ repeatedly to decrease or ▶ repeatedly to increase the number of minutes before the printer enters Power Saver mode, and then press ✓. Available settings range from 2–240 minutes.

Note: Power Saver settings can also be adjusted by issuing a Printer Job Language (PJL) command. For more information, see the *Technical Reference* available on the Lexmark Web site at **www.lexmark.com/publications.**

Restoring the factory default settings

1 From the control panel, press ⚿.

2 Press ▼ until √ **Settings** appears, and then press ✓.

3 Press ▼ until √ **Setup** appears, and then press ✓.

4 Press ▼ until √ **Factory Defaults** appears, and then press ✓.

5 Press ▼ until √ **Restore Now** appears, and then press ✓.

Restoring Factory Defaults appears.

Warning—Potential Damage: Restore Now returns all printer settings to the factory default settings except 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.

Encrypting the printer hard disk

This functionality is available only when a printer hard disk is installed and working properly.

Warning—Potential Damage: All files and resources on the printer hard disk will be deleted. Resources residing in the printer flash memory or RAM will not be affected.

1 Turn the printer off.

2 From the control panel, press and hold ✓ and ▶ while turning the printer on.

3 Release both buttons when **Performing Self Test** appears.

The printer performs its power-on sequence, and then **CONFIG MENU** appears.

4 Press ▼ repeatedly until √ **Disk Encryption** appears, and then press ✓.

5 Press ▼ repeatedly until √ appears next to **Enable** or **Disable**, and then press ✓.

Note: Select **Enable** to enable hard disk encryption or **Disable** to disable hard disk encryption.

Contents will be lost. Continue? appears.

6 Press ▼ repeatedly until √ **Yes** appears, and then press ✓.

A progress bar appears.

7 Press ▼ repeatedly until √ **Exit Config Menu** appears, and then press ✓.

The printer performs its power-on sequence, and then **Ready** appears.

Locking the control panel menus using the Embedded Web Server

You can use the control panel lockout functionality to create a PIN and choose specific menus to lock. Each time a locked menu is selected, the user will be prompted to enter the correct PIN. The PIN does not affect access through the Embedded Web Server.

To lock control panel menus:

1 Open a Web browser. In the address bar, type the IP address of the printer or print server to be protected using the format: *http://ip_address/*.

2 Click **Configuration**.

3 Under Other Settings, click **Security**.

4 Click **Menu Lockout Setup**.

Locking the entire printer

You can use the printer lockout functionality to create a PIN that must be entered in order to use the printer. When the printer is locked, every print job it receives will buffer to the hard disk. To print the jobs, the user must enter the correct PIN using the control panel.

Notes:

- A printer hard disk must be installed in the printer and working properly for the printer lockout functionality to be available.
- Some data will continue to be processed while the printer is locked. Reports such as user or event logs can be retrieved from a locked printer.

To lock control panel menus:

1 Open a Web browser. In the address bar, type the IP address of the printer or print server to be protected using the format: *http://ip_address/*.

2 Click **Configuration**.

3 Under Other Settings, click **Security**.

4 Click **Printer Lockout PIN**.

Modifying confidential print settings

You can modify confidential print settings using the Embedded Web Server. You can set a maximum number of PIN entry attempts. When a user exceeds a specific number of PIN entry attempts, all of the jobs for that user are deleted.

You can set an expiration time for confidential print jobs. When a user has not printed the jobs within the designated time period, all of the jobs for that user are deleted.

Note: This functionality is only available on network printers.

To modify the confidential print settings:

1. Open a Web browser. In the address bar, type the IP address of the printer or print server to be protected using the format: *http://ip_address/*.
2. Click **Configuration**.
3. Under Other Settings, click **Security**.
4. Click **Confidential Print Setup**.

Supporting IPSec

Internet Protocol Security (IPSec) provides authentication and encryption at the network layer allowing all application and network connections over the IP protocol to be secure. IPSec can be set up between the printer and up to five hosts, using both IPv4 and IPv6.

To configure IPSec using the Embedded Web Server:

1. Open a Web browser. In the address bar, type the IP address of the printer or print server to be protected using the format: *http://ip_address*.
2. Click **Configuration**.
3. Under Other Settings, click **Network/Ports**.
4. Click **IPSec**.

IPSec supports two types of authentication:

- **Shared Key Authentication**—Authenticates any ASCII phrase shared among all participating host computers. This is the easiest way to configure when only a few host computers on the network use IPSec.
- **Certificate Authentication**—Authenticates any host computer or subnet of hosts for IPSec. Each host computer must have a public/private key pair. Validate Peer Certificate is enabled by default, requiring each host to have a signed authority certificate that is installed. Each host must have its identifier in the Subject Alternate Name field of the signed certificate.

Note: After a printer is configured for IPSec with a host, IPSec is required for any IP communications to take place.

Supporting SNMPv3

Simple Network Management Protocol version 3 (SNMPv3) allows for encrypted and authenticated network connections. It also lets a system support person select the desired level of security. Prior to use, at least one user name and password must be assigned from the settings page.

To configure SNMPv3 through the Embedded Web Server:

1. Open a Web browser. In the address bar, type the IP address of the printer or print server to be protected using the format: *http://ip_address/*.
2. Click **Configuration**.
3. Under Other Settings, click **Network/Ports**.
4. Click **SNMP**.

SNMPv3 authentication and encryption has three levels of support:

- No authentication and no encryption
- Authentication with no encryption
- Authentication and encryption

Using 802.1x authentication

802.1x authentication allows the printer to join networks that require authentication before allowing access. 802.1x port authentication can be used with the WPA (Wi-Fi Protected Access) feature of wireless printers or print servers to provide WPA-Enterprise security support.

Support for 802.1x requires the establishment of credentials for the printer, such as certificates. Certificates provide a way for the printer to be known to the Authentication Server (AS). The AS allows network access to wireless printers or print servers presenting a valid set of credentials. You can manage the credentials by using the Embedded Web Server.

To install and use certificates as part of the credentials:

1. Open a Web browser. In the address bar, type the IP address of the printer or print server to be protected using the format: *http://ip_address/*.
2. Click **Configuration**.
3. Under Other Settings, click **Network/Ports**.
4. Click **Certificate Management**.

To enable and configure 802.1x after installing the required certificates:

1. Open a Web browser. In the address bar, type the IP address of the printer or print server to be protected using the format: *http://ip_address/*.
2. Click **Configuration**.
3. Under Other Settings, click **Network/Ports**.
4. Click **802.1x Authentication**. If a wireless internal print server is installed in the printer, click **Wireless** instead.

Creating an administrative password

Creating an administrative password allows a system support person to password-protect printer settings. Once a password is created, it must be entered to access the Configuration and Reports pages of the Embedded Web Server. An administrative password for the Embedded Web Server must be created before Secure mode can be activated.

1. Open a Web browser.
2. In the address bar, type the network printer or print server IP address, and then press **Enter**.
3. Click **Configuration**.
4. Under Other Settings, click **Security**.
5. Click **Create Password**.
6. Type the same password in each Password box.

   Changing this setting will cause the print server to reset.
7. Click **Submit**.

Using Secure mode

Secure mode is a way to securely communicate over Transmission Control Protocol (TCP) and User Datagram Protocol (UDP) ports.

Note: An administrative password for the Embedded Web Server must be created before Secure mode can be enabled.

To configure Secure mode using the Embedded Web Server:

1. Open a Web browser.
2. In the address bar, type the network printer or print server IP address, and then press **Enter**.
3. Click **Configuration**.
4. Under Other Settings, click **Security**.
5. Click **TCP/IP Port Access**.
6. Click the box to the right of Secure Mode Active.

   Note: If Secure Mode Active is gray or not selectable, create an administrative password and try again.
7. Select a setting for each listed port, and then click **Submit**.

   There are three ways to configure the TCP and UDP network ports:
   - **Disabled**—Port is disabled and never allows network connections
   - **Secure and Unsecure**—Port is always open including when the printer is in Secure mode
   - **Unsecured Only**—Port is open only when printer is in Secure mode

Troubleshooting

Checking an unresponsive printer

If your printer is not responding, 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 *Ground Fault Circuit Interrupter* (GFCI) has not tripped.

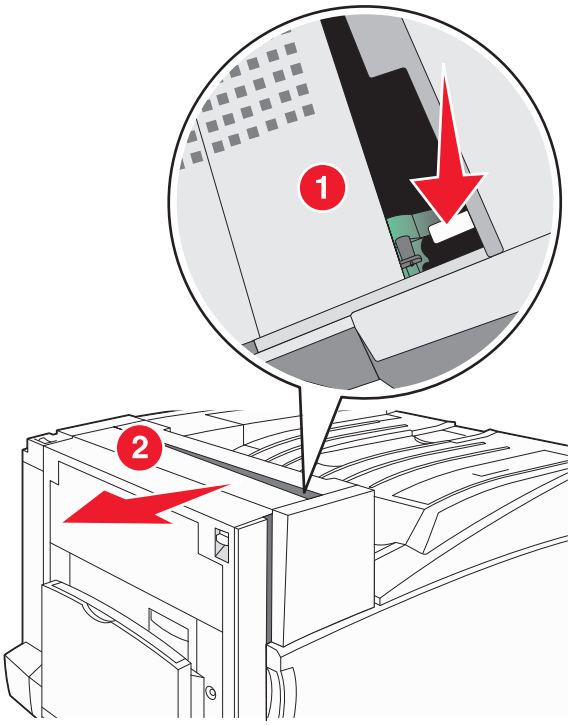
  From the back of the printer, press the GFCI **Reset** button located above the printer power cord.
- The printer is not plugged into any surge protectors, uninterrupted power supplies, or extension cords.
- Other electrical equipment plugged into the outlet is working.
- The printer is turned on.
- The printer cable is securely attached to the printer and the host computer, print server, option, or other network device.

Once you have checked each of these possibilities, turn the printer off and then back on. This often fixes the problem.

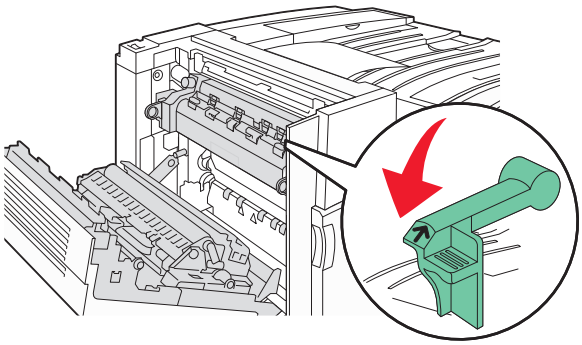
Door A will not shut properly

Make sure the green paper jam clearance lever behind Door A is in place:

1. Press down on the white release lever beneath Door A at the top of the printer, and then open the door.



2 Press the A1 green lever down to its normal position.



3 Close Door A.

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**.

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 back on.

If **`Performing Self Test`** and **`Ready`** do not appear, turn the printer off and contact Customer Support.

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. Press ✓ to return the printer to the **`Ready`** state.

Check to see if the standard exit bin is full

Remove the stack of paper from the standard exit bin, and then press .

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 Windows Vista, Windows XP, Windows Server 2003, Windows 2000/98/Me 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. For more information about installing a network printer, click **View User's Guide and Documentation** on the *Software and Documentation* CD.
- 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:

Has a formatting error occurred?

If so, delete the job and try printing it again. Only part of the job may print.

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.

Check to see if the printer has received invalid data

Delete invalid jobs.

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. From the control panel, press .
2. Press ▼ until √ **Settings** appears, and then press .
3. Press ▼ until √ **Setup Menu** appears, and then press .
4. Press ▼ until √ **Print Recovery** appears, and then press .
5. Press ▼ until √ **Page Protect** appears, and then press .
6. Press ▼ until √ **Off** appears, and then press .

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.

Incorrect characters print

Make sure the printer is not in Hex Trace mode. If **Ready Hex** appears on the display, 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

Are the same size and type of paper loaded in each tray?

- Load the same size and type of paper in each tray.
- Move the paper guides to the correct positions for the paper size loaded in each tray.

Are the Paper Size and Paper Type settings the same for each tray?

- 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. From the control panel, press .
2. Press ▼ until √ **Settings** appears, and then press .
3. Press ▼ until √ **Setup Menu** appears, and then press .
4. Press ▼ until √ **Timeouts** appears, and then press .
5. Press ▼ until √ **Print Timeout** appears, and then press .
6. Press ▶ until the desired value appears, and then press .

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 for 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

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, reinstall it.

Make sure the option is selected

From the program you are using, select the option. Mac OS 9 users should make sure the printer is set up in the Chooser.

Drawers

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.
5. Close the door.

Reset the printer

Turn the printer off. Wait 10 seconds. Turn the printer back on.

Finisher

If the finisher does not operate correctly, these are possible solutions. Try one or more of the following:

Make sure the connection between the finisher and the printer is secure

If the finisher is listed on the menu settings page, but paper jams when it exits the printer and enters the finisher, it may not be properly installed. Reinstall the finisher. For more information, see the hardware setup documentation that shipped with the finisher.

Make sure you are using a paper size that is compatible with the finisher exit bins

For more information about supported paper sizes, click **View User's Guide and Documentation** on the *Software and Documentation* CD.

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 print server

If the internal print server does not operate correctly, these are possible solutions. Try one or more of the following:

Check the print server connections

- Make sure the internal print server is securely attached to the printer system board.
- Make sure you are using the correct (optional) cable and that it is securely connected.

Make sure the network software is configured correctly

For information about installing software for network printing, click **View User's Guide and Documentation** on the *Software and Documentation* CD.

Memory card

Make sure the memory card is securely connected to the printer system board.

USB/parallel interface card

Check the USB/parallel interface card connections:

- Make sure the USB/parallel interface card is securely connected to the printer system board.
- Make sure you are using the correct cable and that it is securely connected.

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 other 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.

Has the paper absorbed moisture due to high humidity?

- Load paper from a fresh package.
- Store paper in its original wrapper until you use it.

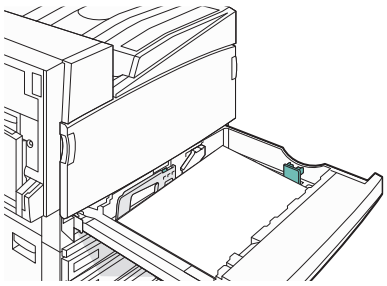
Print jobs are not routed to the booklet-maker bin

These are possible solutions. Try one or more of the following:

Check the paper

Make sure the paper is loaded in a 520-sheet tray or the multipurpose feeder. If the paper is loaded in the multipurpose feeder, make sure it is loaded short-edge first.

Note: Do not load A4- or letter-size paper in the multipurpose feeder.



Is the letter- or A4-size paper loaded in a 520-sheet tray?

The finisher will not accept letter- or A4-size paper from the multipurpose feeder. Load letter- or A4-size paper in the short-edge orientation in a 520-sheet tray.

Make sure the paper size is supported by the booklet-maker bin (Bin 2)

Use one of the following paper sizes supported by Bin 2: A3, A4, B4, folio, legal, letter, or tabloid (11 x 17 in.).

Paper jam message remains after jam is cleared

The paper path is not clear. Clear jammed paper from the entire paper path, and then press .

Page that jammed does not reprint after you clear the jam

In the Setup menu, Jam Recovery is set to Off. Set Jam Recovery to Auto or On:

1. Press .
2. Press ▼ until √ `Settings` appears, and then press .

3 Press ▼ until √ **Setup Menu** appears, and then press ✓.

4 Press ▼ until √ **Print Recovery** appears, and then press ✓.

5 Press ▼ until √ **Jam Recovery** appears, and then press ✓.

6 Press ▼ until √ **On** or √ **Auto** appears, and then press ✓.

Solving print quality problems

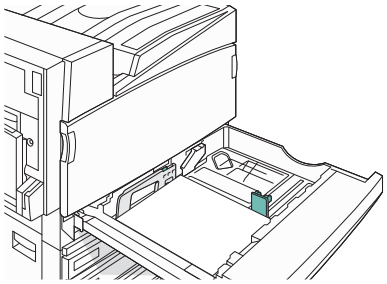
The information in the following topics may help you solve print quality problems. If these suggestions do not correct the problem, contact Customer Support. You may have a printer part that requires adjustment or replacement.

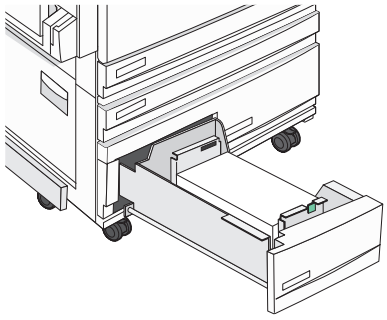
Isolating print quality problems

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 in the long-edge orientation.





3 From the control panel, press and hold ✓ and ▶ while turning the printer on.

4 Release both buttons when **Performing Self Test** appears.

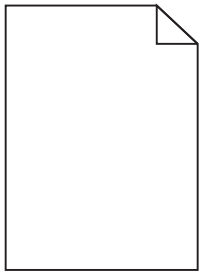
The printer performs its power-on sequence, and then **Config Menu** appears.

5 Press ▼ until √ **Prt Quality Pgs** appears, and then press ✓.

The pages are formatted. **Printing Quality Test Pages** appears, and then the pages print. The message remains on the display until all the pages print.

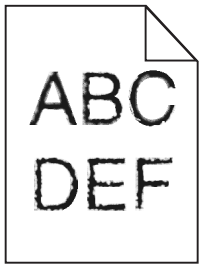
6 After the print quality test pages print, press ▼ until √ **Exit Config Menu** appears, and then press ✓.

Blank pages



The printer may need to be serviced. For more information, contact Customer Support.

Characters have jagged or uneven edges



If you are using downloaded fonts, 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:

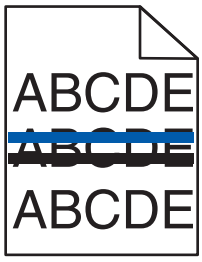
Check the paper guides

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.

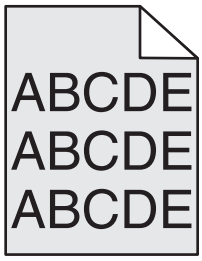
Dark lines



One or more of the photoconductors may be defective.

If an **84 Color pc unit life warning**, **84 Black pc unit life warning**, **84 Replace color pc units**, or **84 Replace black pc unit** message appears, replace the photoconductor(s).

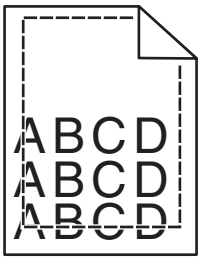
Gray background



Reduce the Toner Darkness setting

From Print Properties, select a different Toner Darkness setting before sending the job to print.

Incorrect margins



Check the paper guides

Move the guides in the tray to the correct positions for the paper size loaded.

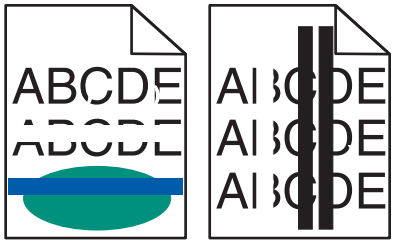
Check the Paper Size setting

Make sure the Paper Size setting matches the paper loaded in the tray.

Check the Page size setting

Before sending the job to print, specify the correct page size in Print Properties or the software program.

Light colored line, white line, or incorrectly colored line



These are possible solutions. Try one or more of the following:

Clean the printhead lenses

The printhead lenses may be dirty.

A toner cartridge may be defective

Replace the defective toner cartridge.

Are the photoconductors defective?

Replace the photoconductor(s).

Note: The printer has four photoconductors: cyan, magenta, yellow, and black. The cyan, magenta, and yellow photoconductors must all be replaced at the same time. The black photoconductor can be replaced separately.

Paper curl

These are possible solutions. Try one or more of the following:

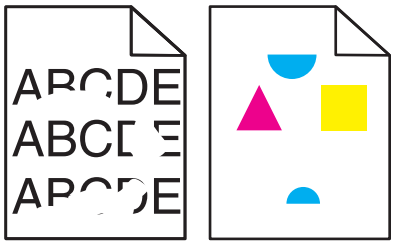
Check the Paper Type setting

Make sure the Paper Type setting matches the paper loaded in the tray.

Has the paper 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:

Has paper 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.

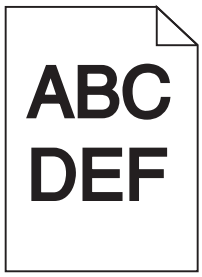
Check the paper

Avoid textured paper with rough finishes.

Is the toner low?

When **88 <color> toner low** appears, order a new 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 RGB Brightness setting is too dark, or the RGB Contrast setting is too high.

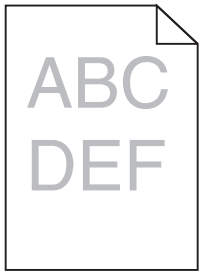
- From Print Properties, change these settings.

  Note: This solution applies to Windows users only.
- From the Quality menu, change these settings.

A toner cartridge may be defective

Replace the toner cartridge.

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 dark, the RGB Brightness setting is too dark, or the RGB Contrast setting is too high.

- From Print Properties, change these settings.

  Note: This solution applies to Windows users only.
- From the Quality menu, change these settings.

Has the paper 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.

Make sure Color Saver is set to Off

Color Saver may be set to On.

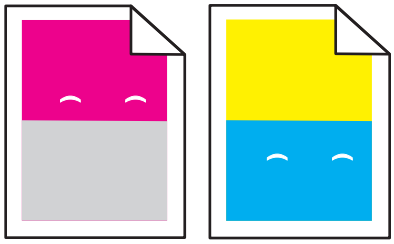
Is the toner low?

When **88 <color> toner low** appears, order a new cartridge.

A toner cartridge may be defective

Replace the toner cartridge.

Repeating defects



Do marks occur repeatedly only in one color and multiple times on a page?

Replace the photoconductor(s) if the defects occur every:

- 44 mm (1.7 in.)
- 94 mm (3.7 in.)

Note: The printer has four photoconductors: cyan, magenta, yellow, and black. The cyan, magenta, and yellow photoconductors must all be replaced at the same time. The black photoconductor can be replaced separately.

Skewed print

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 color pages

The printer may need to be serviced. For more information, contact Customer Support.

Toner fog or background shading appears on the page

A toner cartridge may be defective

Replace the toner cartridge.

Are the photoconductors worn or defective?

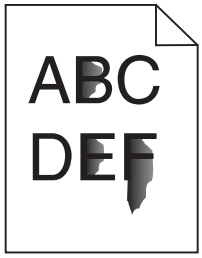
Replace the photoconductor(s).

Note: The printer has four photoconductors: cyan, magenta, yellow, and black. The cyan, magenta, and yellow photoconductors must all be replaced at the same time. The black photoconductor can be replaced separately.

Is there toner in the paper path?

Contact Customer Support.

Toner rubs off



These are possible solutions. Try one or more of the following:

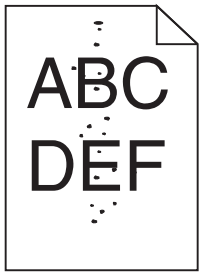
Check the Paper Type setting

Make sure the Paper Type setting matches the paper loaded in the tray.

Check the Paper Texture setting

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:

A toner cartridge may be defective

Replace the toner cartridge.

Is there toner in the paper path?

Contact Customer Support.

Transparency print quality is poor

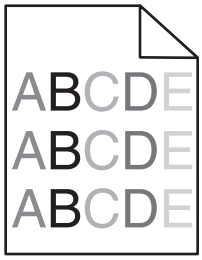
Check the transparencies

Use only transparencies recommended by the printer manufacturer.

Check the Paper Type setting

Load transparencies, and make sure the Paper Type setting is set to Transparency.

Uneven print density



Replace the photoconductor(s).

Note: The printer has four photoconductors: cyan, magenta, yellow, and black. The cyan, magenta, and yellow photoconductors must all be replaced at the same time. The black photoconductor can be replaced separately.

Solving color quality problems

This section helps answer some basic color-related questions and describes how some of the features provided in the Quality Menu can be used to solve typical color problems.

FAQ about color printing

What is RGB color?

Red, green, and blue light can be added together in various amounts to produce a large range of colors observed in nature. For example, red and green can be combined to create yellow. Televisions and computer monitors create colors in this manner. RGB color is a method of describing colors by indicating the amount of red, green, or blue needed to produce a certain color.

What is CMYK color?

Cyan, magenta, yellow, and black inks or toners can be printed in various amounts to produce a large range of colors observed in nature. For example, cyan and yellow can be combined to create green. Printing presses, inkjet printers, and color laser printers create colors in this manner. CMYK color is a method of describing colors by indicating the amount of cyan, magenta, yellow, and black needed to reproduce a particular color.

How is color specified in a document to be printed?

Software programs typically specify document color using RGB or CMYK color combinations. Additionally, they allow users to modify the color of each object in a document. For more information, see the software program Help topics.

How does the printer know what color to print?

When a user prints a document, information describing the type and color of each object is sent to the printer. The color information is passed through color conversion tables that translate the color into the appropriate amounts of cyan, magenta, yellow, and black toner needed to produce the desired color. The object information determines the application of color conversion tables. For example, it is possible to apply one type of color conversion table to text while applying a different color conversion table to photographic images.

Should I use PostScript or PCL emulation printer software? What settings should I use for the best color?

The PostScript driver is strongly recommended for best color quality. The default settings in the PostScript driver provide the preferred color quality for the majority of printouts.

Why doesn't the printed color match the color I see on the computer screen?

The color conversion tables used in Auto Color Correction mode generally approximate the colors of a standard computer monitor. However, because of technology differences that exist between printers and monitors, there are many colors that can also be affected by monitor variations and lighting conditions. For recommendations on how the printer color sample pages may be useful in solving certain color-matching problems, see the question, “How can I match a particular color (such as a corporate logo)?”

The printed page appears tinted. Can I adjust the color?

Sometimes a printed page may appear tinted (for example, everything printed seems to be too red). This can be caused by environmental conditions, paper type, lighting conditions, or user preference. In these instances, adjust the Color Balance setting to create a more preferable color. Color Balance provides the user with the ability to make subtle adjustments to the amount of toner being used in each color plane. Selecting positive or negative values for cyan, magenta, yellow, and black (from the Color Balance menu) will slightly increase or decrease the amount of toner used for the chosen color. For example, if a printed page has a red tint, then decreasing both magenta and yellow could potentially improve the color balance.

My color transparencies seem dark when they are projected. Is there anything I can do to improve the color?

This problem most commonly occurs when projecting transparencies with reflective overhead projectors. To obtain the highest projected color quality, transmissive overhead projectors are recommended. If a reflective projector must be used, then adjusting the Toner Darkness setting to 1, 2, or 3 will lighten the transparency. Make sure to print on the recommended type of color transparencies.

What is manual color correction?

When manual color correction is enabled, the printer employs user-selected color conversion tables to process objects. However, Color Correction must be set to Manual, or no user-defined color conversion will be implemented. Manual color correction settings are specific to the type of object being printed (text, graphics, or images), and how the color of the object is specified in the software program (RGB or CMYK combinations).

Notes:

- Manual color correction is not useful if the software program does not specify colors with RGB or CMYK combinations. It is also not effective in situations in which the software program or the computer operating system controls the adjustment of colors.
- The color conversion tables—applied to each object when Color Correction is set to Auto—generate preferred colors for the majority of documents.

To manually apply a different color conversion table:

1. From the Quality menu, select **Color Correction**, and then select **Manual**.
2. From the Quality menu, select **Manual Color**, and then select the appropriate color conversion table for the affected object type.

Manual Color menu

Object type	Color conversion tables
RGB Image RGB Text RGB Graphics	• **Vivid**—Produces brighter, more saturated colors and may be applied to all incoming color formats. • **sRGB Display**—Produces an output that approximates the colors displayed on a computer monitor. Black toner usage is optimized for printing photographs. • **Display—True Black**—Produces an output that approximates the colors displayed on a computer monitor. Uses only black toner to create all levels of neutral gray. • **sRGB Vivid**—Provides an increased color saturation for the sRGB Display color correction. Black usage is optimized for printing business graphics. • **Off**—No color correction is implemented.
CMYK Image CMYK Text CMYK Graphics	• **US CMYK**—Applies color correction to approximate the SWOP (Specifications for Web Offset Publishing) color output. • **Euro CMYK**—Applies color correction to approximated EuroScale color output. • **Vivid CMYK**—Increases the color saturation of the US CMYK color correction setting. • **Off**—No color correction is implemented.

How can I match a particular color (such as a corporate logo)?

From the printer Quality menu, nine types of Color Samples sets are available. These are also available from the Color Samples page of the Embedded Web Server. Selecting any sample set generates a multiple-page printout consisting of hundreds of colored boxes. Either a CMYK or RGB combination is located on each box, depending on the table selected. The observed color of each box is obtained by passing the CMYK or RGB combination labeled on the box through the selected color conversion table.

By examining Color Samples sets, a user can identify the box whose color is the closest to the desired color. The color combination labeled on the box can then be used for modifying the color of the object in a software program. For more information, see the software program Help topics. Manual color correction may be necessary to utilize the selected color conversion table for the particular object.

Selecting which Color Samples set to use for a particular color-matching problem depends on the Color Correction setting being used (Auto, Off, or Manual), the type of object being printed (text, graphics, or images), and how the color of the object is specified in the software program (RGB or CMYK combinations). When the printer Color Correction setting is set to Off, the color is based on the print job information; and no color conversion is implemented.

Note: The Color Samples pages are not useful if the software program does not specify colors with RGB or CMYK combinations. Additionally, certain situations exist in which the software program or the computer operating system adjusts the RGB or CMYK combinations specified in the program through color management. The resulting printed color may not be an exact match of the Color Samples pages.

What are detailed Color Samples and how do I access them?

Detailed Color Samples sets are available only through the Embedded Web Server of a network printer. A detailed Color Samples set contains a range of shades (displayed as colored boxes) that are similar to a user-defined RGB or CMYK value. The likeness of the colors in the set are dependent on the value entered in the RGB or CMYK Increment box.

To access a detailed Color Samples set from the Embedded Web Server:

1. Open a Web browser.
2. In the address bar, type the network printer IP address.
3. Click **Configuration**.
4. Click **Color Samples**.
5. Click **Detailed Options** to narrow the set to one color range.
6. When the Detailed Options page appears, select a color conversion table.
7. Enter the RGB or CMYK color number.
8. Enter an Increment value from 1–255.

   Note: The closer the value is to 1, the narrower the color sample range will appear.
9. Click **Print** to print the detailed Color Samples set.

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 C930

Machine type:

5057

Model(s):

030

Edition notice

August 2011

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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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All other trademarks are the property of their respective owners.

Conventions

Note: A *Note* identifies something that could help you.

Warning—Potential Damage: A *Warning* identifies something that could damage your product hardware or software.

CAUTION—POTENTIAL INJURY: A *CAUTION* identifies something that could cause you harm.

CAUTION—DO NOT TOUCH: This type of *CAUTION* indicates that you should *not touch* the marked area.

CAUTION—HOT SURFACE: This type of *CAUTION* indicates a *hot surface*.

CAUTION—SHOCK HAZARD: This type of *CAUTION* indicates a *shock hazard*.

CAUTION—TIPPING HAZARD: This type of *CAUTION* indicates a *tipping hazard*.

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.

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 89/336/EEC, 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.

CE

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 प्रयोक्ता 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	55 dBA
Ready	32 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 (nº 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.	800 W
Copying	The product is generating hard-copy output from hard-copy original documents.	NA
Scanning	The product is scanning hard-copy documents.	NA
Ready	The product is waiting for a print job.	200 W
Power Saver	The product is in energy-saving mode.	<17 W
High Off	The product is plugged into a wall outlet, but the power switch is turned off.	NA

Mode	Description	Power consumption (Watts)
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.	NA
Off	The product is plugged into a wall outlet, but the power switch is turned off.	110V = .13 W, 220V = 1.15W

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 C930

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 **www.lexmark.com/support**.

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

—Products, supplies, parts, materials (such as toners and inks), software, or interfaces not furnished by Lexmark

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Limitation of liability

Your sole remedy under this limited warranty is set forth in this document. For any claim concerning performance or nonperformance of Lexmark or a Remarketer for this product under this limited warranty, you may recover actual damages up to the limit set forth in the following paragraph.

Lexmark's liability for actual damages from any cause whatsoever will be limited to the amount you paid for the product that caused the damages. This limitation of liability will not apply to claims by you for bodily injury or damage to real property or tangible personal property for which Lexmark is legally liable. **IN NO EVENT WILL LEXMARK BE LIABLE FOR ANY LOST PROFITS, LOST SAVINGS, INCIDENTAL DAMAGE, OR OTHER ECONOMIC OR CONSEQUENTIAL DAMAGES.** This is true even if you advise Lexmark or a Remarketer of the possibility of such damages. Lexmark is not liable for any claim by you based on a third party claim.

This limitation of remedies also applies to claims against any Suppliers and Remarketers of Lexmark. Lexmark's and its Suppliers' and Remarketers' limitations of remedies are not cumulative. Such Suppliers and Remarketers are intended beneficiaries of this limitation.

Additional rights

Some states do not allow limitations on how long an implied warranty lasts, or do not allow the exclusion or limitation of incidental or consequential damages, so the limitations or exclusions contained above may not apply to you.

This limited warranty gives you specific legal rights. You may also have other rights that vary from state to state.

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