# LEXMARK™

# C790 Series

## User's Guide

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# Safety information

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

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

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

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

**CAUTION—POTENTIAL INJURY:** The lithium battery in this product is not intended to be replaced. There is a danger of explosion if a lithium battery is incorrectly replaced. Do not recharge, disassemble, or incinerate a lithium battery. Discard used lithium batteries according to the manufacturer's instructions and local regulations.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**CAUTION—POTENTIAL INJURY:** To reduce the risk of equipment instability, load each paper drawer or tray separately. Keep all other drawers or trays closed until needed.

**SAVE THESE INSTRUCTIONS.**

# Learning about the printer

## Thank you for choosing this printer!

We've worked hard to make sure it will meet your needs.

To start using your new printer right away, use the setup materials that came with the printer, and then skim the *User's Guide* to learn how to perform basic tasks. To get the most out of your printer, read the *User's Guide* carefully, and make sure you check the latest updates on our Web site.

We're committed to delivering performance and value with our printers, and we want to make sure you're satisfied. If you do encounter any problems along the way, one of our knowledgeable support representatives will be delighted to help you get back on track fast. And if you find something we could do better, please let us know. After all, you are the reason we do what we do, and your suggestions help us do it better.

## Finding information about the printer

| What are you looking for? | Find it here |
|---|---|
| Initial setup instructions:<br>• Connecting the printer<br>• Installing the printer software | Setup documentation—The setup documentation came with the printer and is also available on the Lexmark Web site at **http://support.lexmark.com**. |
| Additional setup and instructions for using the printer:<br>• Selecting and storing paper and specialty media<br>• Loading paper<br>• Configuring printer settings<br>• Viewing and printing documents and photos<br>• Setting up and using the printer software<br>• Configuring the printer on a network (depending on your printer model)<br>• Caring for and maintaining the printer<br>• Troubleshooting and solving problems | *User's Guide*—The *User's Guide* is available on the *Software and Documentation* CD.<br><br>For updates, check our Web site at **http://support.lexmark.com**. |
| Instructions for:<br>• Installing the printer using Guided or Advanced wireless setup<br>• Connecting the printer to an Ethernet or a wireless network<br>• Troubleshooting printer connection problems | *Networking Guide*— Open the *Software and Documentation* CD, and then look for *Printer and Software Documentation* under the Pubs folder. From the list of publications, click the **Networking Guide** link. |

| What are you looking for? | Find it here |
|---|---|
| Help using the printer software | Windows or Mac Help—Open a printer software program or application, and then click **Help**.<br><br>Click ⍰ to view context-sensitive information.<br><br>**Notes:**<br><br>• The Help installs automatically with the printer software.<br>• The printer software is located in the printer Program folder or on the desktop, depending on your operating system. |
| Latest supplemental information, updates, and technical support:<br>• Documentation<br>• Driver downloads<br>• Live chat support<br>• E-mail support<br>• Telephone support | Lexmark Support Web site—**http://support.lexmark.com**<br><br>**Note:** Select your country or region, and then select your product to view the appropriate support site.<br><br>Support telephone numbers and hours of operation for your country or region can be found on the Support Web site or on the printed warranty that came with your printer.<br><br>Record the following information (located on the store receipt and at the back of the printer), and have it ready when you contact support so they may serve you faster:<br>• Machine Type number<br>• Serial number<br>• Date purchased<br>• Store where purchased |
| Warranty information | Warranty information varies by country or region:<br><br>• **In the US**—See the Statement of Limited Warranty included with this printer, or at **http://support.lexmark.com**.<br>• **In other countries and regions**—See the printed warranty that came with your printer. |

# Selecting a location for the printer

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

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

• Make sure airflow in the room meets the latest revision of the ASHRAE 62 standard or the CEN Technical Committee 156 standard.

• Provide a flat, sturdy, and stable surface.

• Keep the printer:

  – Away from the direct airflow of air conditioners, heaters, or ventilators

  – Free from direct sunlight, humidity extremes, or temperature fluctuations

– Clean, dry, and free of dust
- Allow the following recommended amount of space around the printer for proper ventilation:
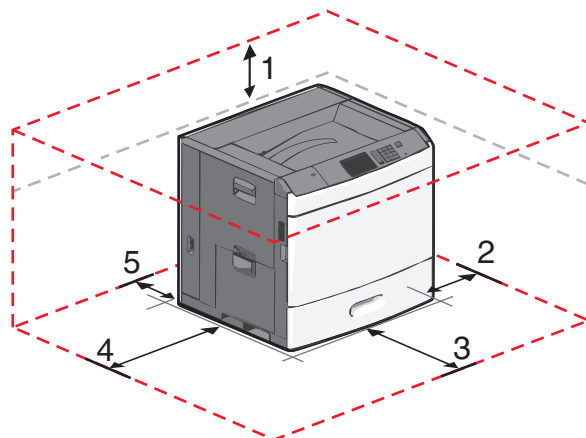


| 1 | 152.4 mm (6.0 in.) |
|---|---|
| 2 | 101.6 mm (4.0 in.) |
| 3 | 609.6 mm (24.0 in.) |
| 4 | 381 mm (15.0 in.) |
| 5 | 304.8 mm (12.0 in.) |

# Printer configurations

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

You can configure your basic printer by adding optional trays.
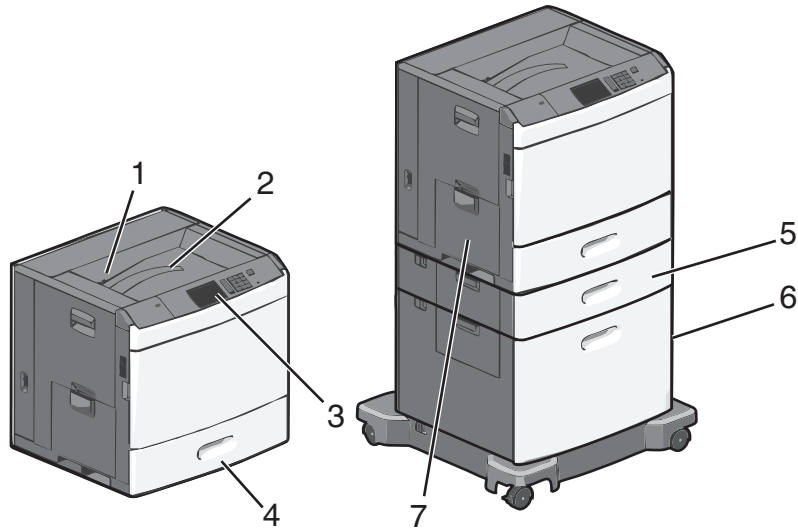
| 1 | Standard exit bin |
|---|---|
| 2 | Wire bail |
| 3 | Printer control panel |
| 4 | Standard 550-sheet tray |
| 5 | Optional 550-sheet tray |
| 6 | Optional 2000-sheet high-capacity feeder |
| 7 | Multipurpose feeder |

# Understanding the printer control panel
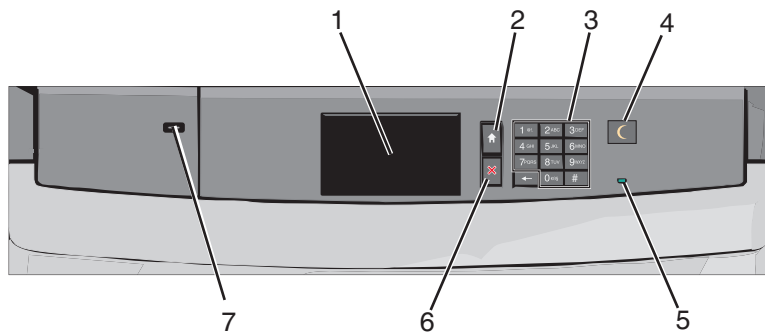
| Item | | Description |
|---|---|---|
| 1 | Display | Shows the status of the printer |
| 2 | Home | Lets you navigate back to the home screen |
| 3 | Keypad | Allows you to enter numbers, letters, or symbols on the printer |

| Item | | Description |
|---|---|---|
| **4** | Sleep | Enables Sleep Mode or Hibernate Mode |
| | | The following are the statuses of the indicator light and the Sleep button: |
| | | • Entering or waking from Sleep Mode—The indicator light is illuminated solid green, Sleep button is unilluminated. |
| | | • Operating in Sleep Mode—The indicator light is illuminated solid green, Sleep button is illuminated solid amber. |
| | | • Entering or waking from Hibernate Mode—The indicator light is illuminated solid green, Sleep button is illuminated blinking amber. |
| | | • Operating in Hibernate Mode—The indicator light is unilluminated, Sleep button is blinking amber for 1/10 of a second, then go completely unilluminated for 1.9 seconds in pulsing pattern. |
| | | The following actions wake the printer from Sleep Mode: |
| | | • Touching the screen or any hard button presses. |
| | | • Opening an input tray, cover, or door. |
| | | • Sending a print job from the computer. |
| | | • Performing a Power On Reset (POR) with the main power switch. |
| **5** | Indicator light | Off—The printer 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. |
| **6** | Stop/Cancel | Stops all printer activity |
| | | **Note:** A list of options is displayed once `Stopped` appears on the display. |
| **7** | USB port | Allows you to connect a USB Bluetooth adapter, or a flash drive to the printer |
| | | **Note:** Only the front USB port supports flash drives. |

Learning about the printer

# Understanding the home screen

## Understanding the home screen

When the printer is turned on, the display shows a basic screen, referred to as the home screen. Use the home screen buttons and icons to initiate an action.

**Note:** Your home screen, icons, and the buttons may vary depending on your home screen customization settings, administrative setup, and active embedded solutions.
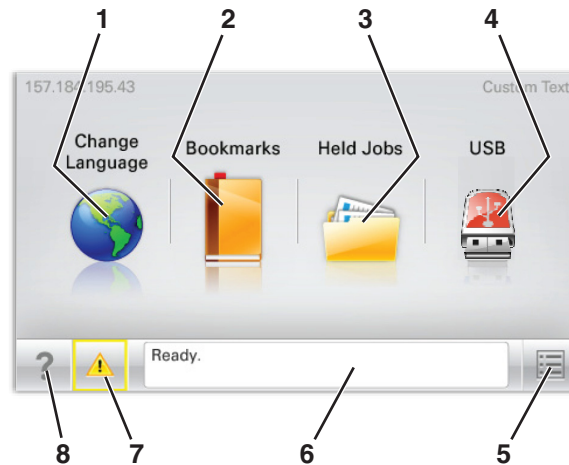


| Touch | | To |
|---|---|---|
| 1 | Change Language | Change the primary language of the printer. |
| 2 | Bookmarks | Create, organize, and save a set of bookmarks (URLs) into a tree view of folders and file links. |
| | | **Note:** The tree view does not include bookmarks created within **Forms and Favorites**, and the ones in the tree are not usable from within **Forms and Favorites**. |
| 3 | Held Jobs | Display all current held jobs. |
| 4 | USB or USB Thumbdrive | View, select, or print photos and documents from a flash drive. |
| | | **Note:** This icon appears only when you return to the home screen while a memory card or flash drive is connected to the printer. |
| 5 | Menus | Access printer menus. |
| | | **Note:** These menus are available only when the printer is in the `Ready` state. |
| 6 | Status message bar | • Show the current printer status such as `Ready` or `Busy`. |
| | | • Show printer conditions such as `Fuser missing` or `Cartridge Low`. |
| | | • Show intervention messages and the instructions on how to clear them. |
| 7 | Status/Supplies | • Display a warning or error message whenever the printer requires intervention to continue processing. |
| | | • Access the messages screen for more information on the message, and how to clear it. |

| Touch | | To |
|---|---|---|
| **8** | Tips | Open a context-sensitive Help information on the touch screen. |

This may also appear on the home screen:

| Touch | To |
|---|---|
| Search Held Jobs | Search current held jobs. |

# Using the touch-screen buttons

**Note:** Your home screen, icons, and buttons may vary depending on your home screen customization settings, administrative setup, and active embedded solutions.

## Sample touch screen
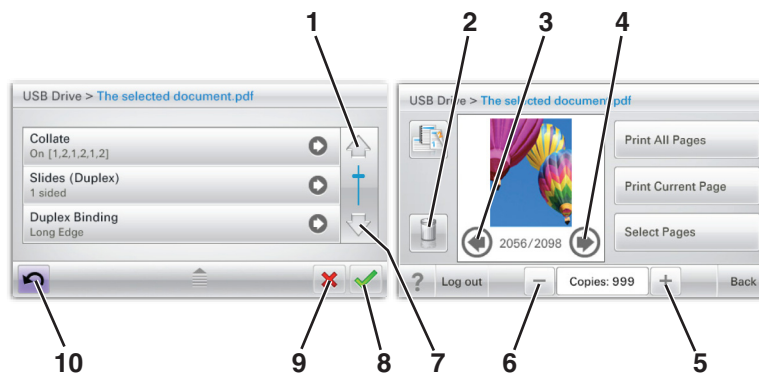


| | Touch | To |
|---|---|---|
| **1** | Up arrow  | Scroll up. |
| **2** | Delete folder  | Delete the file you selected. |
| **3** | Left arrow  | Scroll to the left. |

| | Touch | To |
|---|---|---|
| **4** | Right arrow | Scroll to the right. |
| **5** | Right scroll increase | Scroll to another value in increasing order. |
| **6** | Left scroll decrease | Scroll to another value in decreasing order. |
| **7** | Down arrow | Scroll down. |
| **8** | Accept | Save a setting. |
| **9** | Cancel | • Cancel an action or a selection.<br>• Cancel out a screen and return to the previous screen. |
| **10** | Back | Navigate back to the previous screen. |

## Other touch-screen buttons

| Touch | To |
|---|---|
| Exit | Exit from the current screen to the home screen. |
| Radio button | Select or clear an item. |

# Features

| Feature | Description |
|---|---|
| Menu trail line:<br>Menus > Settings > Print Settings > Number of Copies | A menu trail line is located at the top of each menu screen. This feature acts as a trail, showing the path taken to arrive at the current menu. It gives the exact location within the menus.<br><br>Number of Copies is not underlined since this is the current screen. If you touch an underlined word on the Number of Copies screen before the Number of Copies is set and saved, then the selection is not saved, and does not become the default setting. |
| Attendance message alert | If an attendance message affects a function, then this icon appears and the red indicator light blinks. |
| Warning | If an error condition occurs, then this icon appears. |

# Customizing the home screen

**Notes:**

- Your home screen, icons, and buttons may vary depending on your home screen customization settings, administrative setup, and active embedded applications. Some applications are supported only on select printer models.
- There may be additional solutions and applications available for purchase. To learn more, visit **www.lexmark.com**. Or, inquire at your point of purchase.

## Accessing the Embedded Web Server

Type your printer IP address or host name in the address field of your Web browser.

**Note:** If you do not know the IP address or host name of the printer, then you can:

- View the information on the printer control panel home screen, or in the TCP/IP section under the Network/Ports menu.
- Print a network setup page or menu settings page, and then locate the information in the TCP/IP section.

## Showing or hiding icons on the home screen

**1** From the Embedded Web Server, click **Settings** > **General Settings** > **Home screen customization**.

A list of basic printer functions appears.

**2** Select the check boxes to specify which icons appear on the printer home screen.

Cleared check box items are hidden.

**3** Click **Submit**.

## Activating the home screen applications

For detailed information about configuring and using home screen applications, visit the Lexmark Web site at **http://support.lexmark.com**.

### Background and Idle Screen

| Icon | Description |
| --- | --- |
|  | The application lets you customize the background and idle screen of your printer home screen. |

To change the background of the printer home screen using the printer control panel, do the following:

**1** From the home screen, navigate to:

**Change Background** > select background to use

**2** Touch ✔.

## Forms and Favorites

| Icon | Description |
|---|---|
| | The application helps you simplify and streamline work processes by letting you quickly find and print frequently used online forms directly from the home screen. For example, you can print the latest version of a form exactly when you need it. This eliminates inventories of printed forms that can easily become outdated. |
| | **Note:** The printer must have permission to access the network folder, FTP site, or Web site where the bookmark is stored. From the computer where the bookmark is stored, use sharing, security, and firewall settings to allow the printer at least a *read* access. For help, see the documentation that came with your operating system. |

To configure Forms and Favorites, do the following:

**1** From the Embedded Web Server, click **Settings** > **Device Solutions** > **Solutions (eSF)** > **Forms and Favorites**.

**2** Define the bookmarks, and then customize the settings.

**3** Click **Apply**.

To use the application, touch **Forms and Favorites** on the home screen, and then navigate through form categories, or search for forms based on a form number, name, or description.

## Eco-Settings

| Icon | Description |
|---|---|
| | The application lets you easily manage energy consumption, noise, toner, and paper usage settings to help reduce the environmental impact of your printer. |

## Showroom

| Icon | Description |
|---|---|
| | The application lets you create and display a customized slide show on the touch screen of your printer. You can specify how long each slide is displayed, and images can be loaded either from a flash drive or through the printer Embedded Web Server. |

## Remote Operator Panel

This application shows the printer control panel on your computer screen and lets you interact with the printer control panel, even when you are not physically near the printer. From your computer screen, you can view the printer status, release held print jobs, create bookmarks, and do other print-related tasks you might normally do while standing at the printer.

To activate Remote Operator Panel, do the following:

**1** From the Embedded Web Server, click **Settings** > **Device Solutions** > **Solutions (eSF)** > **Remote Operator Panel**.

**2** Select the **Enabled** check box, and then customize the settings.

**3** Click **Apply**.

To use Remote Operator Panel, from the Embedded Web Server, click **Applications** > **Remote Operator Panel** > **Launch VNC Applet**.

# Exporting and importing a configuration using the Embedded Web Server

You can export configuration settings into a text file that can then be imported and used to apply the settings to one or more additional printers.

## Exporting a configuration

**1** From the Embedded Web Server, click **Settings** or **Configuration**.

**2** Click **Device Solutions** > **Solutions (eSF)**, or click **Embedded Solutions**.

**3** From Installed Solutions, click the name of the application you want to configure.

**4** Click **Configure** > **Export**.

**5** Follow the instructions on the computer screen to save the configuration file, and then enter a unique file name or use the default name.

   **Note:** If a `JVM Out of Memory` error occurs, then repeat the export until the configuration file is saved.

## Importing a configuration

**1** From the Embedded Web Server, click **Settings** or **Configuration**.

**2** Click **Device Solutions** > **Solutions (eSF)**, or click **Embedded Solutions**.

**3** From Installed Solutions, click the name of the application you want to configure.

**4** Click **Configure** > **Import**.

**5** Browse to the saved configuration file, and then load or preview it.

   **Note:** If a timeout occurs and a blank screen appears, then refresh the browser, and then click **Apply**.

# Additional printer setup

## Installing internal options

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

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

## Available internal options

- Memory cards
  - Printer memory
  - Flash memory
  - Fonts
- Firmware cards
  - Bar Code
  - PrintCryption™
- Printer hard disk
- Lexmark™ Internal Solutions Ports (ISP)
  - RS-232-C Serial ISP
  - Parallel 1284-B ISP
  - MarkNet™ N8250 802.11 b/g/n Wireless ISP
  - MarkNet N8130 10/100 Fiber ISP
  - MarkNet N8120 10/100/1000 Ethernet ISP

# Using the security lock feature

The printer is equipped with a security lock feature. When a lock compatible with most laptop computers is attached, the printer is locked. Once locked, the metal plate and the system board cannot be removed. Attach a security lock to the printer in the location shown.
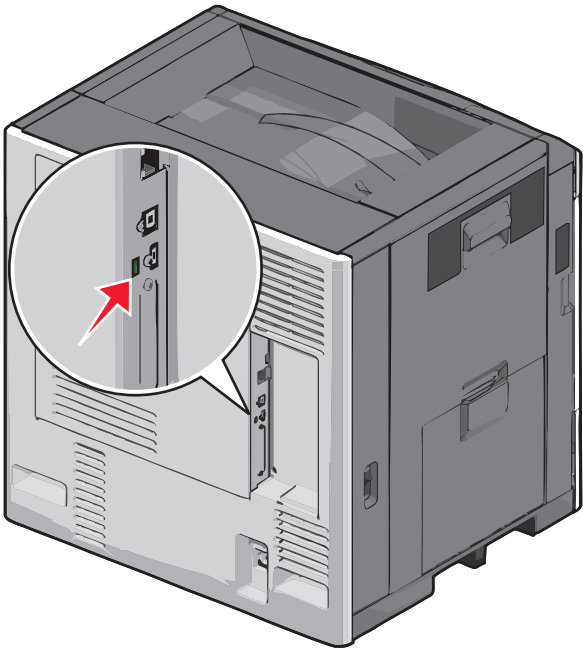
# Accessing the system board

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

**Note:** This task requires a flathead screwdriver.

**1** Open the cover.

**2** Remove the metal panel.

    **a** Turn the screws on the panel counterclockwise to remove them.
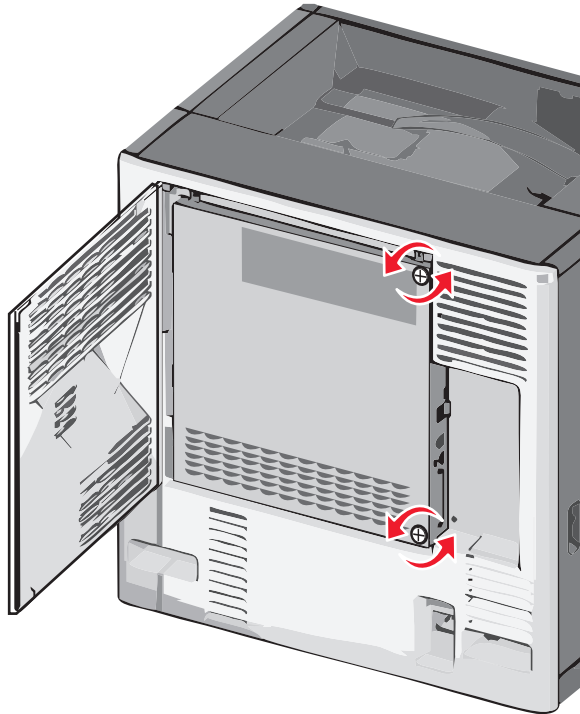
**b** Shift the metal panel to the left to disengage the hooks, then pull forward to remove it.
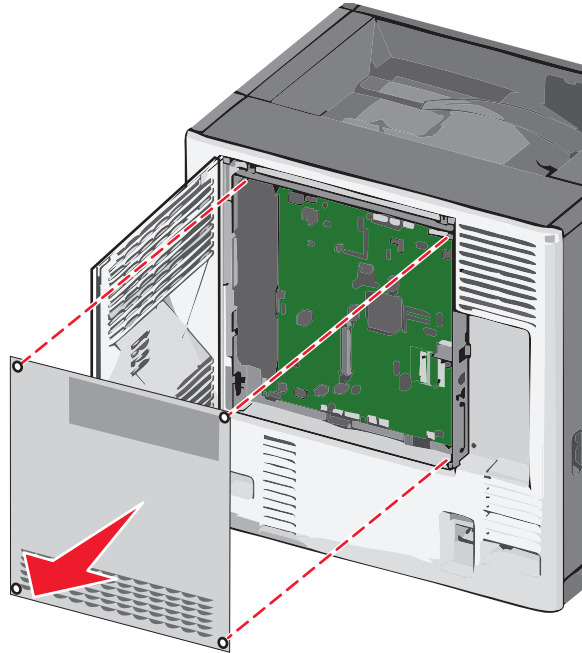


**3** Use the following illustration to locate the appropriate connectors.

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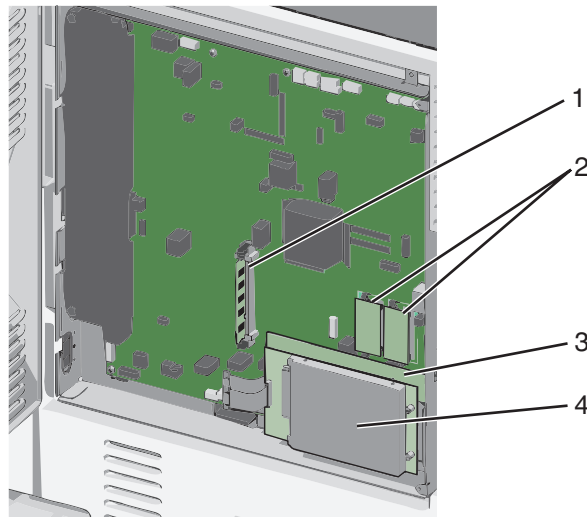


| | |
|---|---|
| **1** | Memory card connector |
| **2** | Firmware and flash memory card connectors |
| **3** | Internal print server connector |
| **4** | Hard disk connector |

**4** Reattach the system board cover.

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

**a** Reinstall the hooks on the left side of the metal panel into the slots on the system board cage, and then shift to the right.
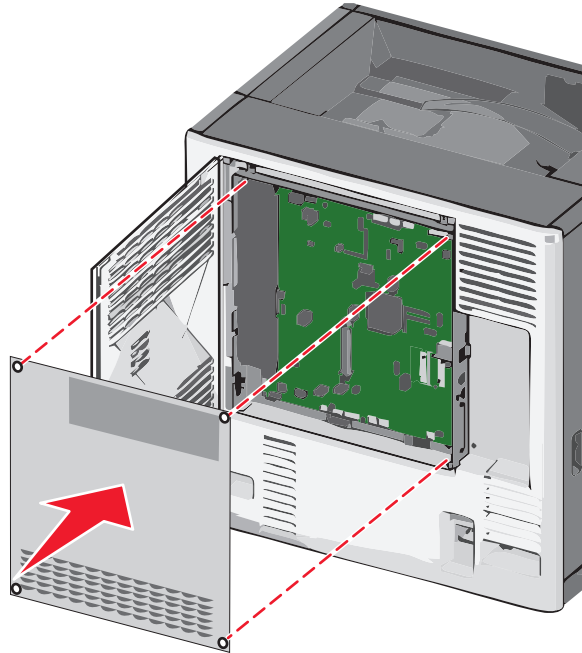


**b** Align and then turn each screw clockwise to tighten.



**c** Close the cover.

# Installing a memory card

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

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

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

**1** Access the system board.

For more information, see "Accessing the system board" on page 23.

**Note:** This task requires a flathead screwdriver.

**2** Unpack the memory card.

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

**3** On the system board, open the memory card connector latches.
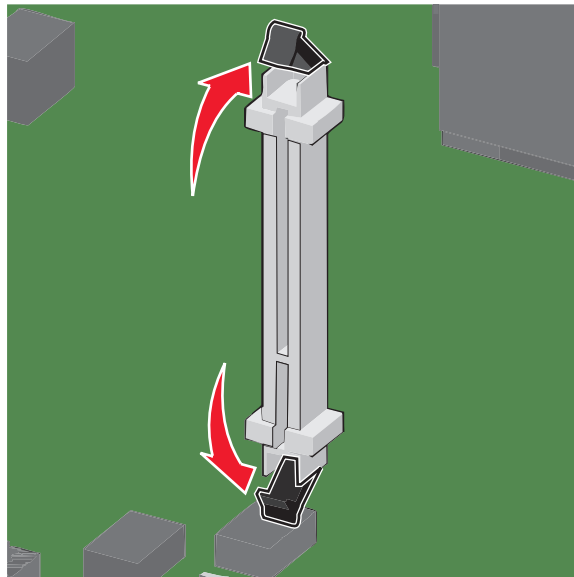
**4** Align the notches on the memory card to the ridges on the connector.
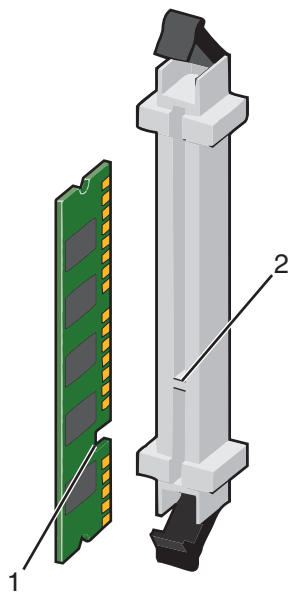
| 1 | Notch |
|---|-------|
| 2 | Ridge |

**5** Push the memory card straight into the connector until it *clicks* into place.
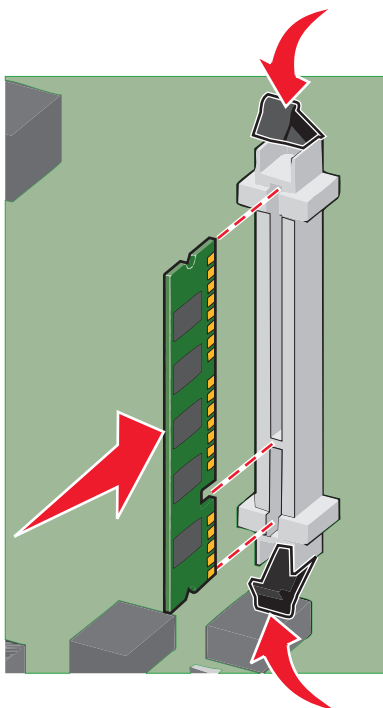
**6** Reattach the system board cover.

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

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

**1** Access the system board.

   **Note:** This task requires a flathead screwdriver.

**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.
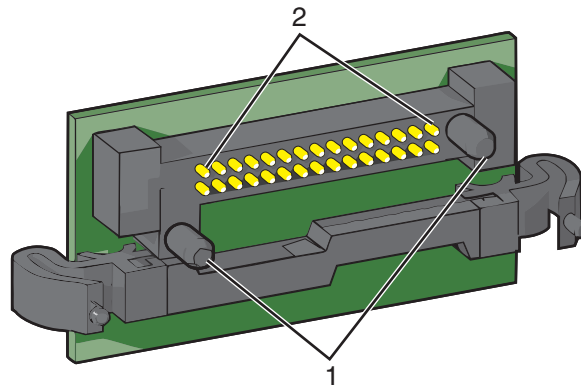
| 1 | Plastic pins |
|---|---|
| 2 | Metal pins |

**4** Push the card firmly into place.
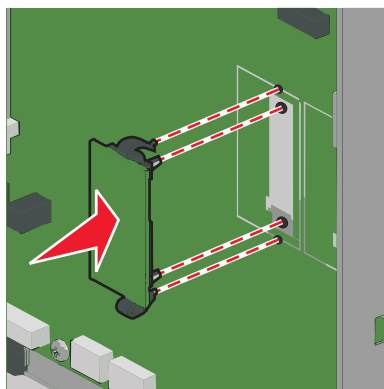
**Notes:**

- 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** Reattach the system board cover.

## Installing an Internal Solutions Port

The system board supports one optional Lexmark Internal Solutions Port (ISP).

**Note:** This task requires a flathead screwdriver.

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

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

**1** Access the system board.

For more information, see "Accessing the system board" on page 23.

**2** Unpack the ISP and plastic tee.

**Note:** Avoid touching the components on the card.

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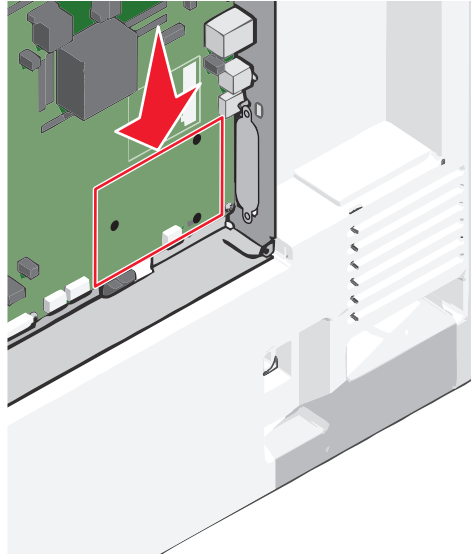


**4** Remove the printer hard disk.

For more information, see "Removing a printer hard disk" on page 38.

**5** Remove the metal cover from the ISP opening.
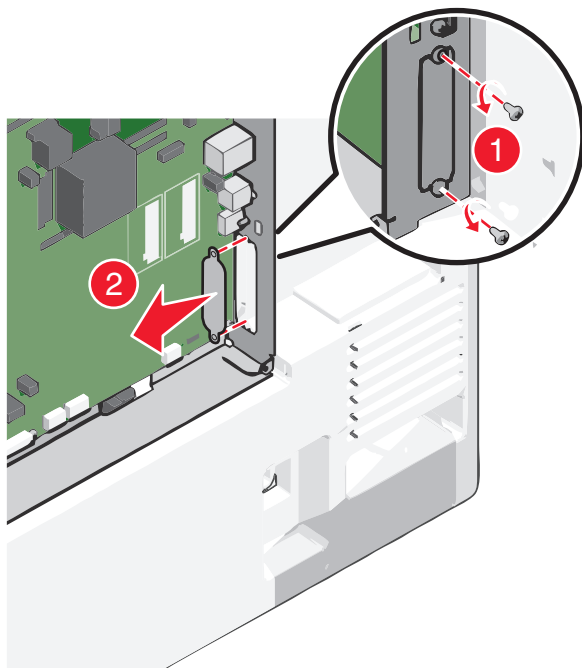
**6** Align the posts of the plastic tee to the holes on the system board, and press down until the tee *clicks* into place. Be sure each post of the tee has latched completely, and the tee is seated firmly on the system board.
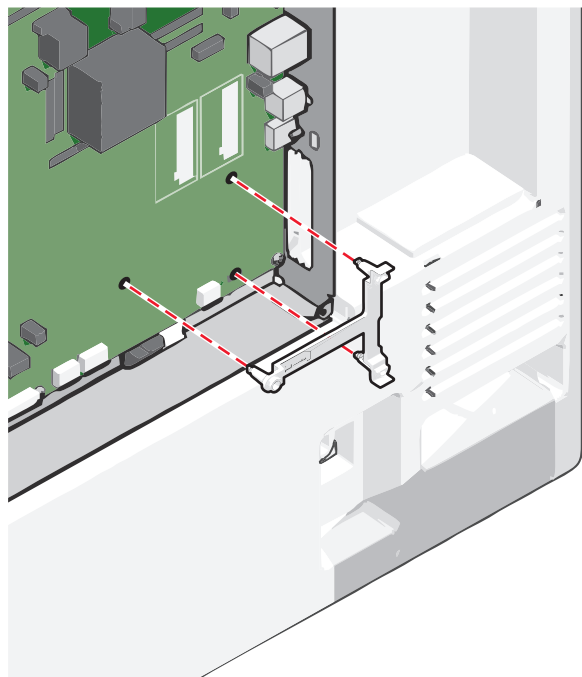
**7** Install the ISP on the plastic tee. Angle the ISP over the plastic tee, and then slant it toward the plastic tee so that any overhanging connectors will pass through the ISP opening in the system board cage.
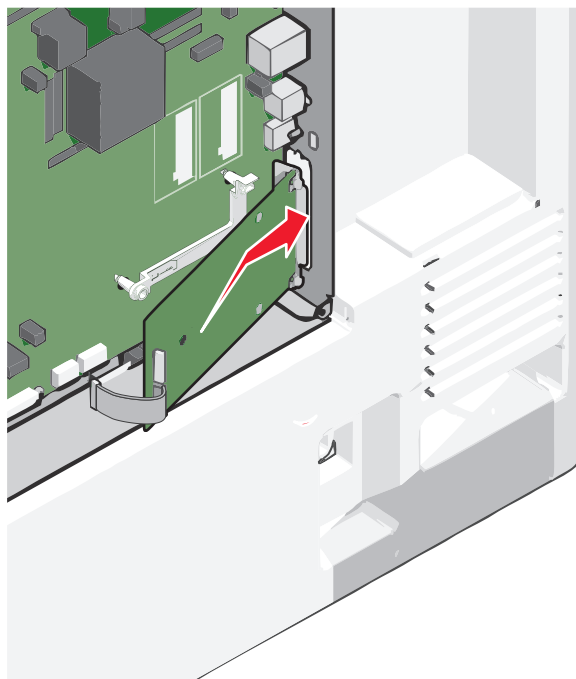


**8** Lower the ISP toward the plastic tee until the ISP is seated between the guides of the plastic tee.
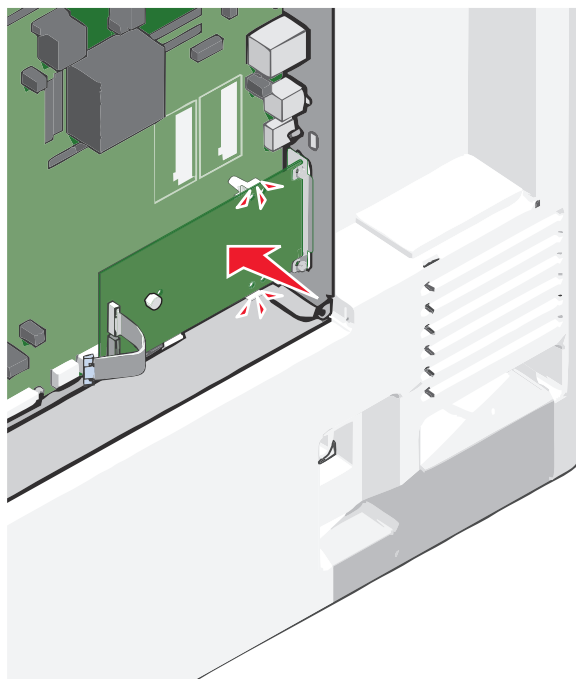
**9** Insert the long thumbscrew and turn it clockwise, enough to hold the ISP in place, but do not yet tighten the thumbscrew.
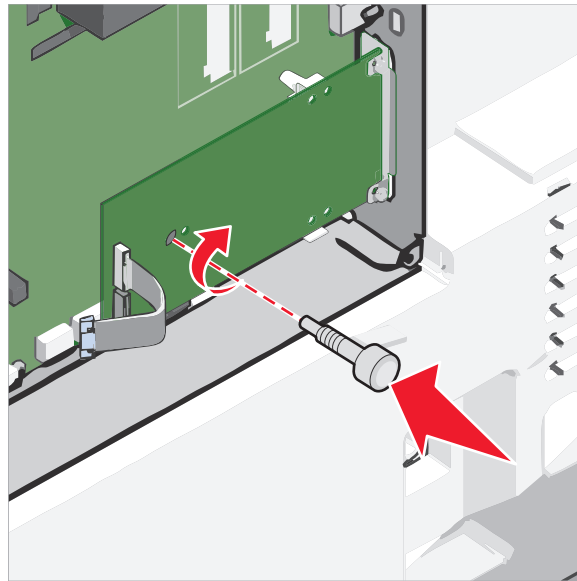
**10** Attach the two provided screws to secure the ISP mounting bracket to the system board cage.
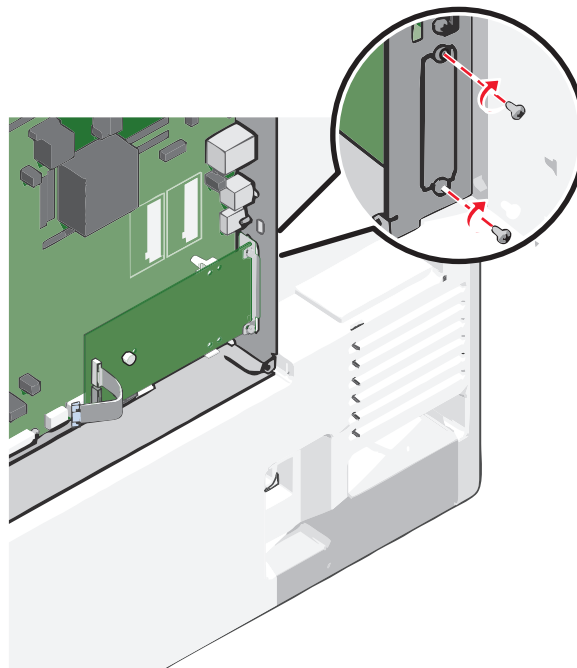
**11** Tighten the long thumbscrew.

**Warning—Potential Damage:** Do not overtighten the thumbscrew.

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

**Note:** The plugs and receptacles are color-coded.
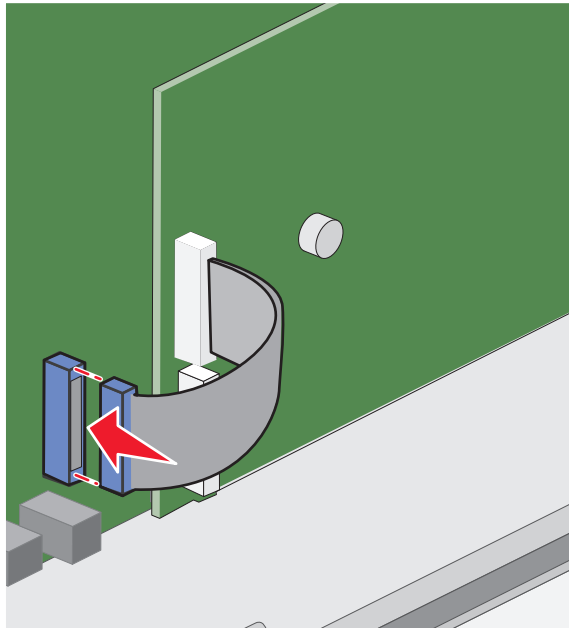
**13** Reattach the system board cover.

## Installing a printer hard disk

**Note:** This task requires a flathead screwdriver.

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

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

**1** Access the system board.

For more information, see "Accessing the system board" on page 23.

**2** Unpack the printer hard disk.

**3** Locate the appropriate connector on the system board.
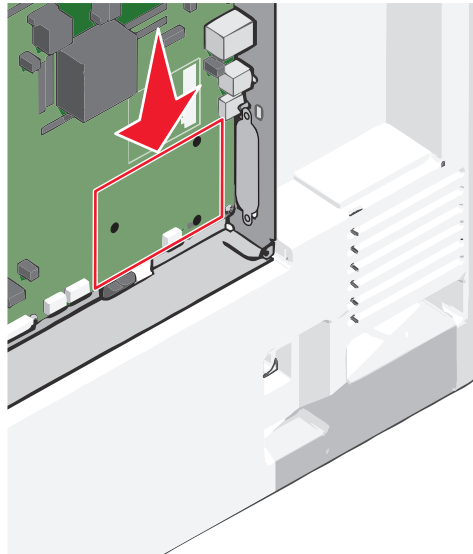
**Note:** If an optional ISP is currently installed, then the printer hard disk must be installed onto the ISP.

To install a printer hard disk onto the ISP:

**a** Using a flathead screwdriver, loosen the screws.
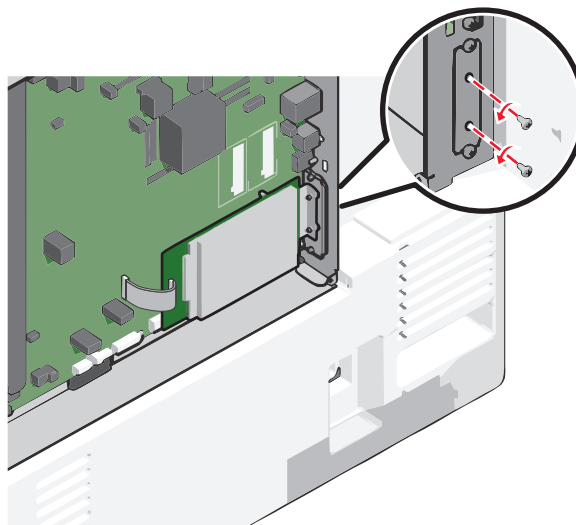
**b** Remove the screws attached to the printer hard disk mounting bracket, and then remove the bracket.

**c** Align the standoffs of the printer hard disk to the holes in the ISP, and then press down on the printer hard disk until the standoffs are in place.
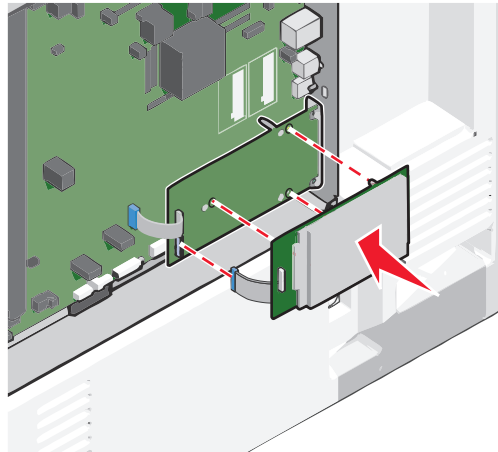


**d** Insert the plug of the printer hard disk interface cable into the receptacle of the ISP.

   **Note:** The plugs and receptacles are color-coded.
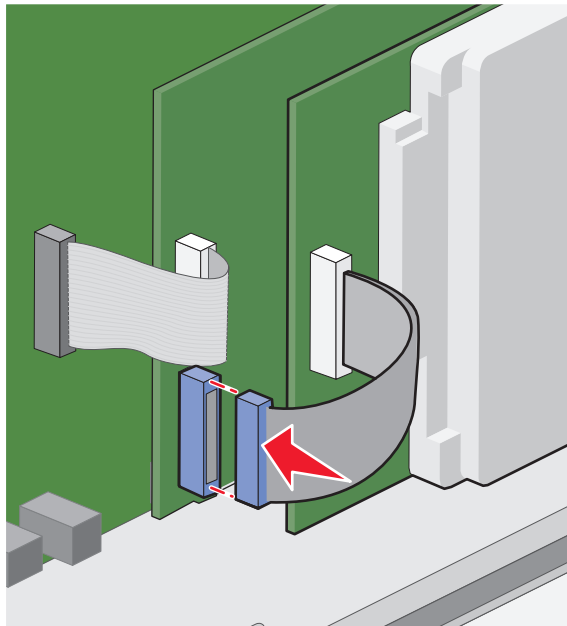
To install a printer hard disk directly on the system board:

**a** Align the standoffs of the printer hard disk to the holes in the system board, and then press down on the printer hard disk until the standoffs are in place.
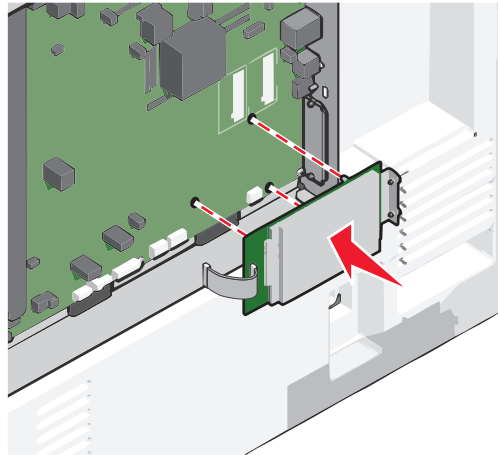


**b** Use the two provided screws to attach the printer hard disk mounting bracket.
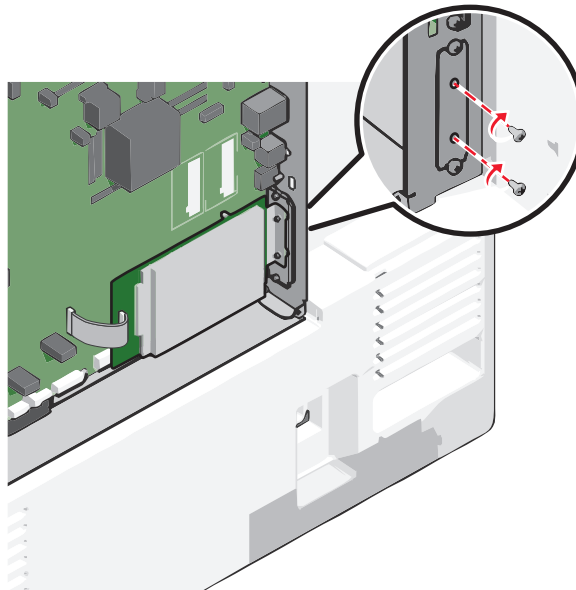


**c** Insert the plug of the printer hard disk interface cable into the receptacle of the system board.

**Note:** The plugs and receptacles are color-coded.
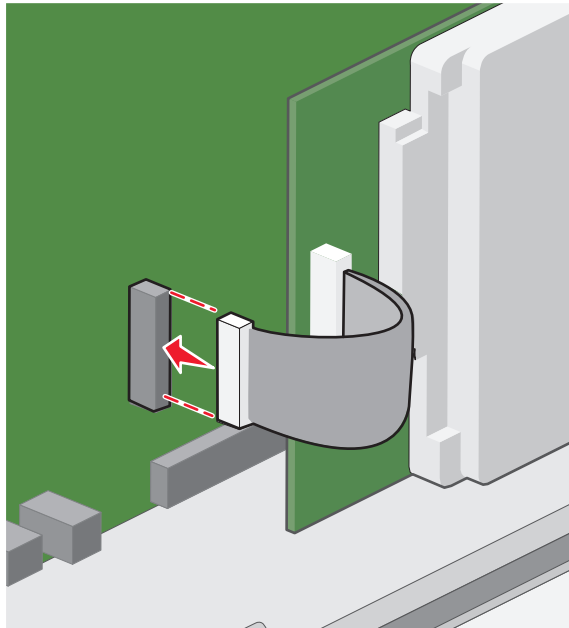
**4** Reattach the system board cover.

# Removing a printer hard disk

**Note:** This task requires a flathead screwdriver.
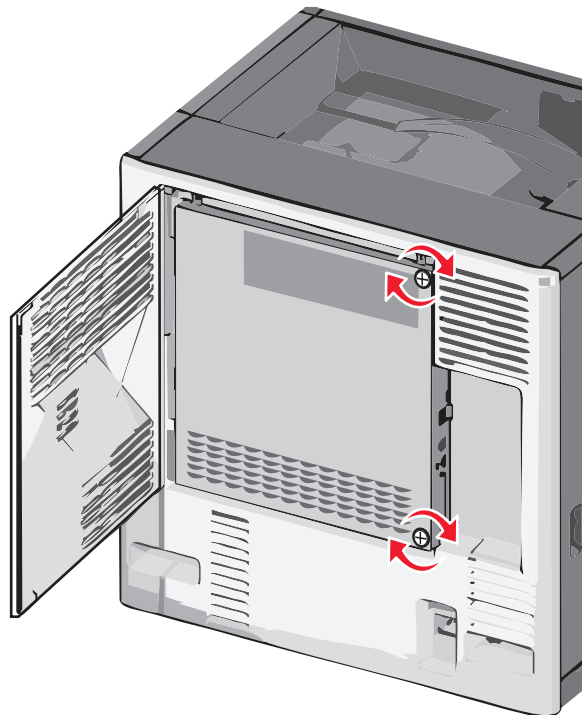
**Warning—Potential Damage:** System board electronic components are easily damaged by static electricity. Touch something metal on the printer before touching any system board electronic components or connectors.

1 Access the system board.

 For more information, see "Accessing the system board" on page 23.

2 Unplug the printer hard disk interface cable from the system board, leaving the cable attached to the printer hard disk. To unplug the cable, squeeze the paddle at the plug of the interface cable to disengage the latch before pulling the cable out.
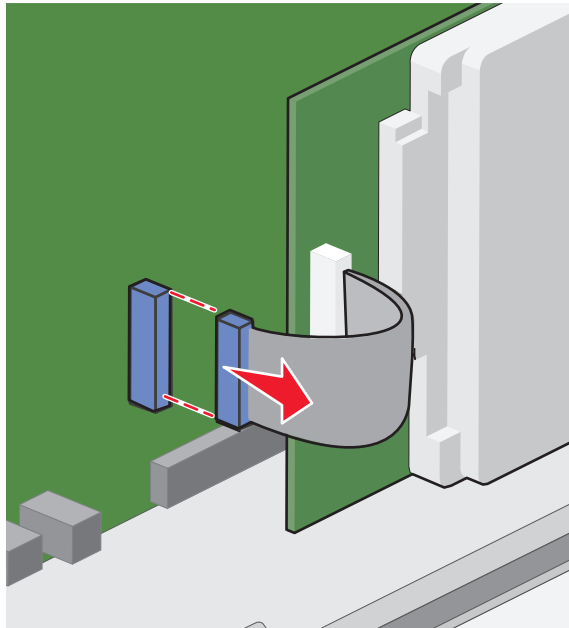
3 Remove the screws while holding the printer hard disk in place, and then remove the printer hard disk.
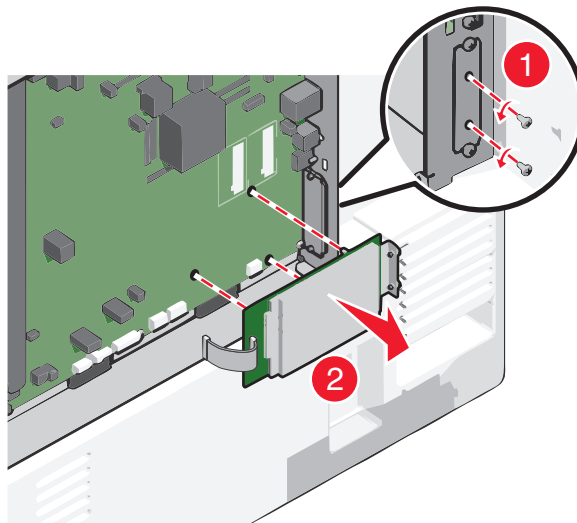
**4** Set the printer hard disk aside.

**5** Reattach the system board cover.

# Order of installation

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

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

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

Install the printer and any options you have purchased in the following order:

- Caster base
- Optional spacer
- Optional 550-sheet trays or 2,000-sheet high-capacity feeder
- Standard 550-sheet trays
- Printer

For information on installing a caster base, a 550- or 2,000-sheet optional tray, spacer, or any of the finishers, see the setup documentation that came with the option.

# Installing optional trays

The printer supports the following optional input sources:

- 550-sheet tray
- 2,000-sheet high-capacity feeder

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

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

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

**1** Unpack the optional tray, and then remove all packing material.

**2** Place the tray near the printer.

**3** Turn the printer off.

**4** Align the printer with the tray, and then lower the printer into place.

**Note:** Optional trays lock together when stacked. When necessary, remove stacked trays one at a time from the top down.
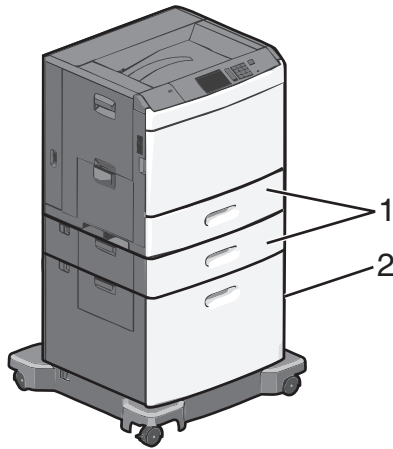


| 1 | Standard 550-sheet tray (Tray 1) |
|---|---|
| 2 | Optional 550-sheet trays |

**5** Turn the printer back on.

**6** Set the printer software to recognize the optional input source.

For more information, see "Updating available options in the printer driver" on page 45.

# Supported finishing features

The printer supports the following finishing features:

- 500-Sheet Offset Stacker
- 500-Sheet Staple Finisher
- 500-Sheet Staple, Hole Punch Finisher
- 5-bin mailbox
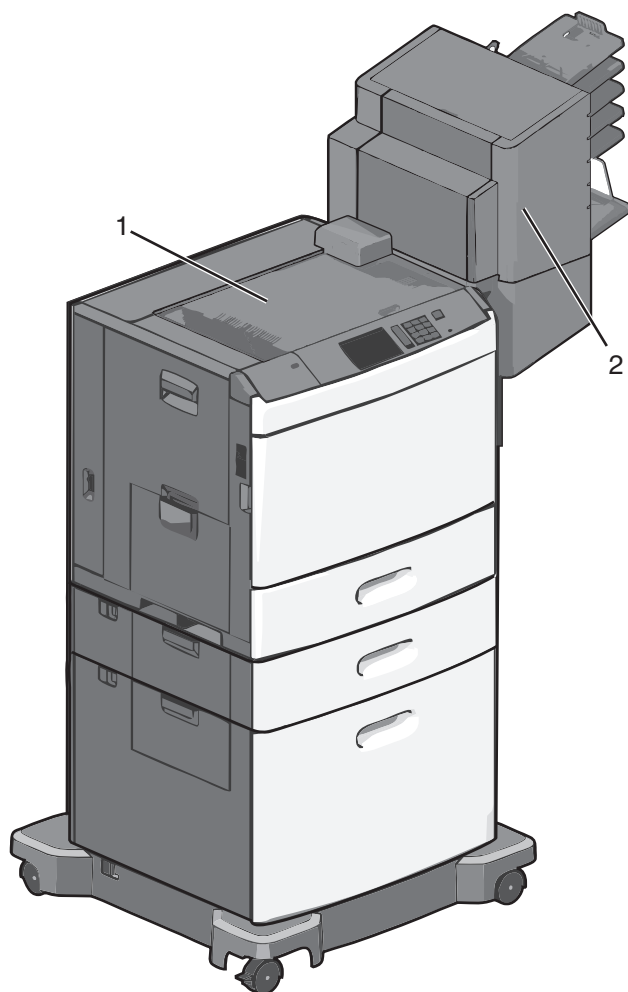
| **1** | Standard bin |
|-------|--------------|
| **2** | Finisher bin |

## Standard bin

- The paper capacity is 500 sheets.
- Finishing options are not supported in this bin.
- Envelopes are routed here.

## Finisher bin

- The paper capacity is 500 sheets.
- Envelopes, A5, A6 and statement paper sizes are not supported in this bin.

**Finishing features**

| Paper size | Two-hole punch | Three- or four-hole punch | 5-bin mailbox | 500-Sheet Staple Finisher |
|---|---|---|---|---|
| A4 | ✓ | ✓ | ✓ | ✓ |
| A5 | X | X | ✓ | X |
| Executive | ✓ | ✓ | ✓ | ✓ |
| Folio | ✓ | X | ✓ | ✓ |
| JIS B5 | ✓ | ✓ | ✓ | ✓ |
| Legal | ✓ | ✓ | ✓ | ✓ |
| Letter | ✓ | ✓ | ✓ | ✓ |
| Statement | X | X | ✓ | ✓ |
| Universal | X | X | ✓ | ✓ |
| Envelopes (any size) | X | X | ✓ | X |
| Oficio | ✓ | ✓ | ✓ | ✓ |

# Attaching cables

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

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

Be sure to match the following:

- The USB symbol on the cable with the USB symbol on the printer
- The appropriate Ethernet cable to the Ethernet port
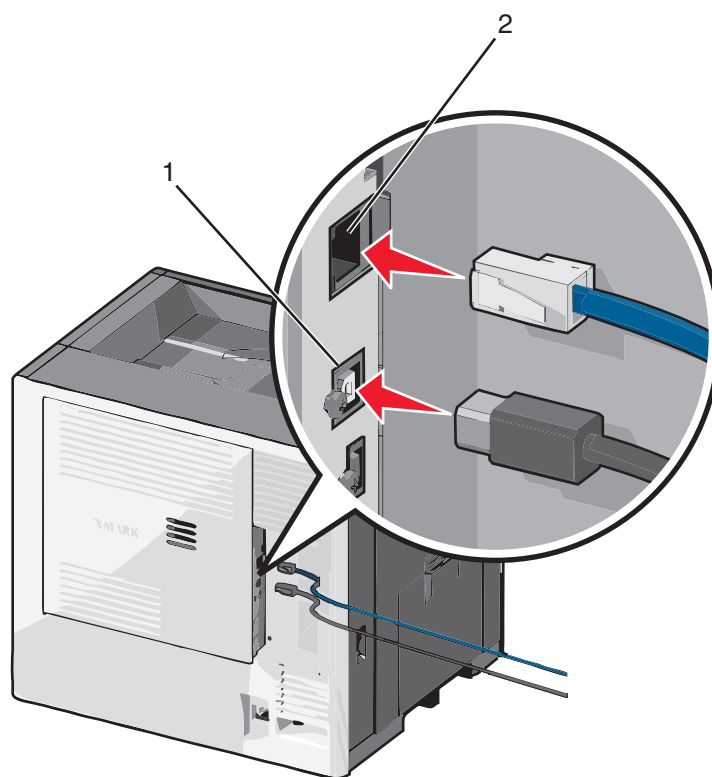
| 1 | USB port |
|---|---|
| | **Warning—Potential Damage:** Do not touch the USB cable, any network adapter, or the printer in the area shown while actively printing. A loss of data or a malfunction can occur. |
| 2 | Ethernet port |

# Verifying printer setup

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

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

## Printing a menu settings page

From the home screen, navigate to:

🖥 > **Reports** > **Menu Settings Page**

## Printing a network setup page

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

**1** From the home screen, navigate to:

> ≣ > **Reports** > **Network Setup Page**

**2** Check the first section of the network setup page, and confirm that the status is `Connected`.

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

# Setting up the printer software

## Installing the printer software

**Note:** If you installed the printer software on this computer before but need to reinstall the software, then uninstall the current software first.

### For Windows users

**1** Close all open software programs.

**2** Insert the installation software CD.

If the installation dialog screen does not appear after a minute, then launch the CD manually:

**a** Click , or click **Start** and then click **Run**.

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

**c** Press **Enter**, or click **OK**.

**3** Click **Install**, and then follow the instructions on the computer screen.

### For Macintosh users

**1** Close all open applications.

**2** Insert the installation software CD.

If the installation dialog does not appear after a minute, then click the CD icon on the desktop.

**3** Double-click the software installer package, and then follow the instructions on the computer screen.

### Using the Internet

**1** Go to the Lexmark Web site at **www.lexmark.com**.

**2** Navigate to:

**SUPPORT & DOWNLOADS** > select your printer > select your operating system

**3** Download the driver and install the printer software.

**Note:** Updated printer software may be available at **http://support.lexmark.com**.

# Updating available options in the printer driver

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

## For Windows users

1 Open the printers folder:

    **a** Click ![Windows icon], or click **Start** and then click **Run**.

    **b** In the Start Search or Run box, type `control printers`.

    **c** Press **Enter**, or click **OK**.

2 Select the printer.

3 Right-click the printer, and then select **Properties**.

4 Click the **Configuration** tab.

5 Click **Update Now - Ask Printer** or manually add any installed hardware options under Configuration Options.

6 Click **Apply**.

## For Macintosh users

### In Mac OS X version 10.5 or later

1 From the Apple menu, navigate to:

    **System Preferences** > **Print & Fax** > select your printer > **Options & Supplies** > **Driver**

2 Add any installed hardware options, and then click **OK**.

### In Mac OS X version 10.4 or earlier

1 From the Finder, navigate to:

    **Go** > **Applications** > **Utilities**

2 Double-click **Printer Setup Utility** or **Print Center**.

3 Select your printer.

4 From the Printers menu, choose **Show Info**.

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

# Setting up wireless printing

**Note:** A Service Set Identifier (SSID) is a name assigned to a wireless network. Wireless Encryption Protocol (WEP) and Wi-Fi Protected Access (WPA) are types of security used on a network.

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

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

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

  Some ad hoc networks will also require the auto setting. Check with your system support person if you are not sure which channel to select.
- **Security Method**—There are three basic options for Security Method:
  - WEP key

    If your network uses more than one WEP key, enter up to four in the provided spaces. Select the key currently in use on the network by selecting the Default WEP Transmit Key.

    *or*
  - WPA or WPA2 passphrase

    WPA includes encryption as an additional layer of security. The choices are AES or TKIP. Encryption must be set for the same type on the router and on the printer, or the printer will not be able to communicate on the network.
  - No security

    If your wireless network does not use any type of security, then you will not have any security information.

    **Note:** Using an unsecured wireless network is not recommended.

If you are installing the printer on an 802.1X network using the Advanced method, then you may need the following:
- Authentication type
- Inner authentication type
- 802.1X username and password
- Certificates

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

## Installing the printer on a wireless network (Windows)

Before installing the printer on a wireless network, make sure:
- Your wireless network is set up and working properly.
- The computer you are using is connected to the same wireless network where you want to set up the printer.

**1** Connect the power cable to the printer and then to a properly grounded electrical outlet, and then turn the printer on.
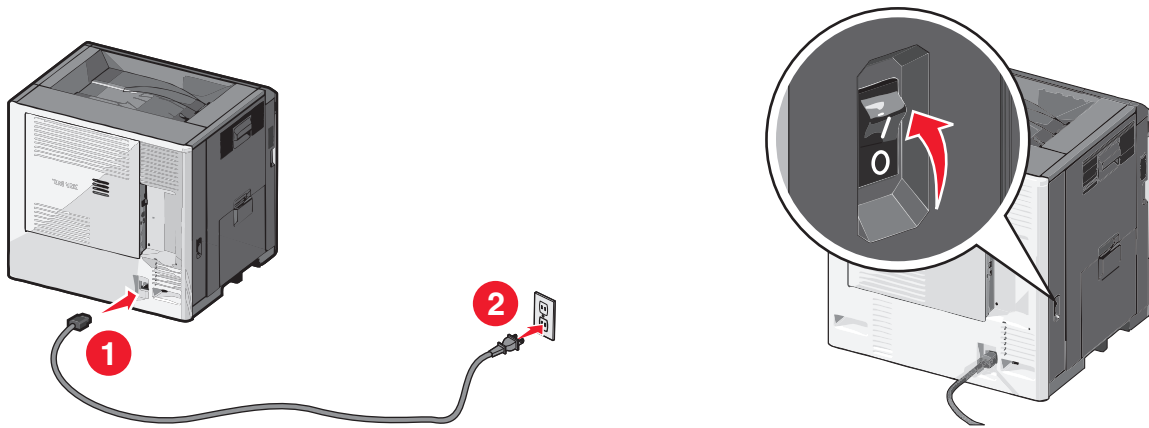
Make sure the printer and computer are fully on and ready.

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

**2** Insert the *Software and Documentation* CD.
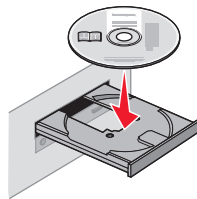
**3** Click **Install**, and then follow the instructions on the computer screen.

**4** Select **Wireless connection** when asked to choose a connection type.

**5** From the Wireless Configuration dialog, select **Guided Setup (Recommended)**.

> **Note:** Choose **Advanced Setup** only if you want to customize your installation.

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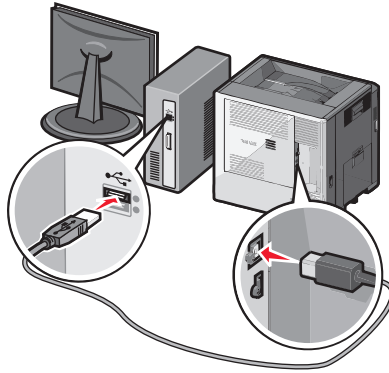


> **Note:** After the printer is configured, the software will instruct you to disconnect the temporary USB cable so you can print wirelessly.

**7** Follow the instructions on the computer screen.

**Note:** For more information on allowing other computers on the network to use the wireless printer, see the *Networking Guide*.

## Installing the printer on a wireless network (Macintosh)

Make sure to disconnect the Ethernet cable when installing the printer on a wireless network.

### Prepare to configure the printer

**1** Connect the power cable to the printer and then to a properly grounded electrical outlet, and then turn the printer on.
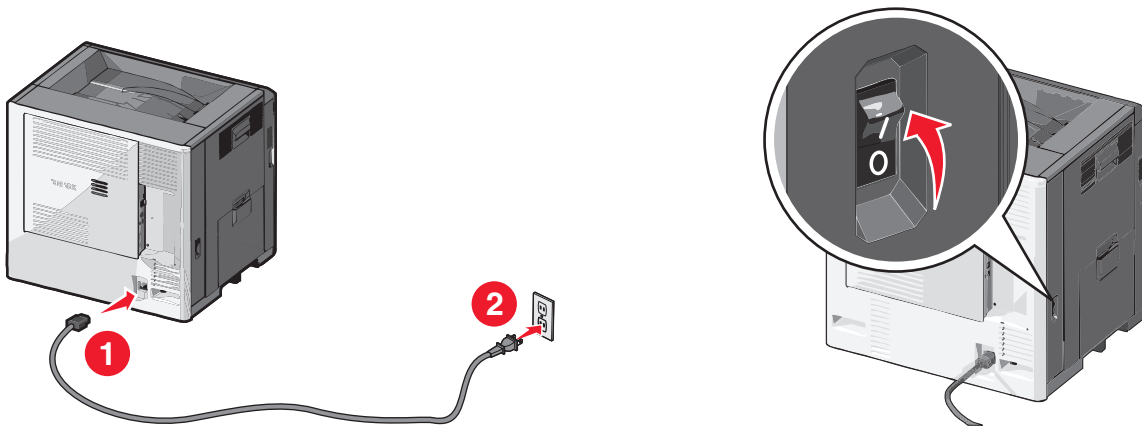


**2** Locate the printer MAC address.

    **a** From the home screen, navigate to:

        ⊞ > **Reports** > **Network Setup Page**

    **b** In the Standard Network Card section, look for **UAA (MAC)**.

        **Note:** You will need this information later.

## Enter the printer information

**1** Access the AirPort options:

### In Mac OS X version 10.5 or later

From the Apple menu, navigate to:

**System Preferences** > **Network** > **AirPort**

### In Mac OS X version 10.4 or earlier

From the Finder, navigate to:

**Applications** > **Internet Connect** > **AirPort**

**2** From the Network Name pop-up menu, select **print server [yyyyyy]**, where the **y**'s are the last six digits of the MAC address located on the MAC address sheet.

**3** Open a Web browser.

**4** From the Bookmarks menu, select **Show** or **Show All Bookmarks**.

**5** Under COLLECTIONS, select **Bonjour** or **Rendezvous**, and then double-click the printer name.

   **Note:** The application referred to as *Rendezvous* in Mac OS X version 10.2 is now called *Bonjour* by Apple Inc.

**6** From the Embedded Web Server, navigate to where the wireless settings information are stored.

## Configure the printer for wireless access

**1** Type the network name (SSID) in the appropriate field.

**2** Select **Infrastructure** as your Network Mode setting if you are using an access point (wireless router).

**3** Select the type of security you want to use to protect your wireless network.

**4** Enter the security information necessary for the printer to connect to the wireless network.

**5** Click **Submit**.

**6** Open the AirPort application on your computer:

### In Mac OS X version 10.5 or later

From the Apple menu, navigate to:

**System Preferences** > **Network** > **AirPort**

### In Mac OS X version 10.4 or earlier

From the Finder, navigate to:

**Applications** > **Internet Connect** > **AirPort**

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

# Configure your computer to use the printer wirelessly

To print on a network printer, each Macintosh user must install a custom printer driver file and create a print queue in the Printer Setup Utility or Print Center.

1 Install a printer driver file on the computer:

a Insert the *Software and Documentation* CD, and then double-click the installer package for the printer.

b Follow the instructions on the computer screen.

c Select a destination, and then click **Continue**.

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

e Type the user password, and then click **OK**.
All necessary applications are installed in the computer.

f Click **Close** when installation is complete.

2 Add the printer:

a For IP printing:

**In Mac OS X version 10.5 or later**
1 From the Apple menu, navigate to:
**System Preferences** > **Print & Fax**
2 Click **+**, and then click the **IP** tab.
3 Type the IP address of the printer in the address field, and then click **Add**.

**In Mac OS X version 10.4 or earlier**
1 From the Finder, navigate to:
**Applications** > **Utilities**
2 Double-click **Printer Setup Utility** or **Print Center**.
3 From the Printer List, choose **Add**, and then click **IP Printer**.
4 Type the IP address of the printer in the address field, and then click **Add**.

b For AppleTalk printing:

**Note:** Make sure AppleTalk is activated on your printer.

**In Mac OS X version 10.5**
1 From the Apple menu, navigate to:
**System Preferences** > **Print & Fax**
2 Click **+**, and then navigate to:
**AppleTalk** > select the printer from the list > **Add**

**In Mac OS X version 10.4 or earlier**
1 From the Finder, navigate to:
**Applications** > **Utilities**
2 Double-click **Printer Setup Utility** or **Print Center**.
3 From the Printer List, click **Add**.
4 Click **Default Browser** tab > **More Printers**.
5 From the first pop-up menu, select **AppleTalk**.

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**6** From the second pop-up menu, select **Local AppleTalk Zone**.

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

# Installing the printer on a wired network

These instructions apply to Ethernet and fiber optic network connections.

**Note:** Make sure you have completed the initial setup of the printer.

## For Windows users

**1** Insert the *Software and Documentation* CD.

If the installation screen does not appear after a minute, then launch the CD manually:

**a** Click 🔵, or click **Start** and then click **Run**.

**b** In the Start Search or Run box, type `D:\setup.exe`, where `D` is the letter of the CD or DVD drive.

**c** Press **Enter**, or click **OK**.

**2** Click **Install**, and then follow the instructions on the computer screen.

**Note:** To configure the printer using a static IP address, IPv6, or scripts, select **Advanced Options** > **Administrator Tools**.

**3** Select **Ethernet connection**, and then click **Continue**.

**4** Attach the appropriate cable to the computer and to the printer when instructed to do so.

**5** Select the printer from the list, and then click **Continue**.

**Note:** If the configured printer does not appear on the list, then click **Modify Search**.

**6** Follow the instructions on the computer screen.

## For Macintosh users

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

**2** Obtain the printer IP address. You can:

**a** View the information on the printer control panel home screen, or in the TCP/IP section under the Networks/Ports menu.

**b** Print a network setup page or menu settings page and locate the information in the TCP/IP section.

**Note:** You will need the IP address if you are configuring access for computers on a different subnet than the printer.

**3** Install the printer drivers, and then add the printer.

**a** Install a printer driver file on the computer:

**1** Insert the *Software and Documentation* CD, and then double-click the installer package for the printer.

**2** Follow the instructions on the computer screen.

**3** Select a destination, and then click **Continue**.

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

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**5** Type the user password, and then click **OK**.

All the necessary applications are installed in the computer.

**6** Click **Close** when installation is complete.

**b** Add the printer:

- For IP printing:

### In Mac OS X version 10.5 or later

**1** From the Apple menu, navigate to:

**System Preferences** > **Print & Fax**

**2** Click **+**, and then click the **IP** tab.

**3** Type the printer IP address in the address field, and then click **Add**.

### In Mac OS X version 10.4 or earlier

**1** From the Finder, navigate to:

**Applications** > **Utilities**

**2** Double-click **Printer Setup Utility** or **Print Center**.

**3** From the Printer List, click **Add**, and then click **IP Printer**.

**4** Type in the printer IP address in the address field, and then click **Add**.

- For AppleTalk printing:

**Note:** Make sure AppleTalk is activated on your printer.

### In Mac OS X version 10.5

**1** From the Apple menu, navigate to:

**System Preferences** > **Print & Fax**

**2** Click **+**, and then navigate to:

**AppleTalk** > select the printer from the list > **Add**

### In Mac OS X version 10.4 or earlier

**1** From the Finder, navigate to:

**Applications** > **Utilities**

**2** Double-click **Printer Setup Utility** or **Print Center**.

**3** From the Printer List, click **Add**.

**4** Click **Default Browser** tab > **More Printers**.

**5** From the first pop-up menu, select **AppleTalk**.

**6** From the second pop-up menu, select **Local AppleTalk Zone**.

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

**Note:** If the printer does not show up in the list, then you may need to add it using the IP address. For more information, contact your system support person.

# Changing port settings after installing a new network Internal Solutions Port

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

**Notes:**

- If the printer has a static IP address, then you do not need to make any changes to the computer configurations.
- If the computers are configured to use network name that will stay the same, instead of by IP address, then you do not need to make any changes to your computer configurations.
- If you are adding a wireless ISP to a printer previously configured for a wired connection, then make sure the wired network is disconnected when you configure the printer to operate wirelessly. If the wired connection remains connected, then the wireless configuration will complete, but the wireless ISP will not be active. In the event that the printer was configured for a wireless ISP while still attached to a wired connection, disconnect the wired connection, turn the printer off, and then turn the printer back on again. This will enable the wireless ISP.
- Only one network connection at a time is active. If you want to switch the connection type between wired and wireless, you must first turn the printer off, connect the cable (to switch to a wired connection) or disconnect the cable (to switch to a wireless connection), and then turn the printer on.

## For Windows users

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

   If you do not know the IP address of the printer, you can:
   - View the IP address on the printer control panel in the TCP/IP section under the Networks/Ports menu.
   - Print a network setup page or the menu settings pages and locate the IP address in the TCP/IP section.

2  Click ![Windows icon], or click **Start** and then click **Run**.

3  In the Start Search or Run box, type `control printers`.

4  Press **Enter**, or click **OK**.

   The printer folder opens.

5  Locate the printer that has changed.

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

6  Right-click the printer.

7  Click **Properties** > **Ports** tab.

8  Select the port from the list, and then click **Configure Port**.

9  Type the new IP address in the "Printer Name or IP Address" field.

10  Click **OK** > **Close**.

## For Macintosh users

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

If you do not know the IP address of the printer, you can:

- View the IP address on the printer control panel in the TCP/IP section under the Networks/Ports menu.
- Print a network setup page or the menu settings pages and locate the IP address in the TCP/IP section.

   **Note:** You will need the IP address if you are configuring access for computers on a different subnet than the printer.

**2** Add the printer:

- For IP printing:

   ### In Mac OS X version 10.5 or later

   **a** From the Apple menu, navigate to:
      **System Preferences** > **Print & Fax**
   **b** Click **+**, and then click the **IP** tab.
   **c** Type the IP address of your printer in the Address field, and then click **Add**.

   ### In Mac OS X version 10.4 or earlier

   **a** From the Finder, navigate to:
      **Applications** > **Utilities**
   **b** Double-click **Printer Setup Utility** or **Print Center**.
   **c** From the Printer List, click **Add**, and then click **IP Printer**.
   **d** Type the IP address of your printer in the Address field, and then click **Add**.

- For AppleTalk printing:

   **Note:** Make sure AppleTalk is activated on your printer.

   ### In Mac OS X version 10.5

   **a** From the Apple menu, navigate to:
      **System Preferences** > **Print & Fax**
   **b** Click **+**, and then navigate to:
      **AppleTalk** > select the printer from the list > **Add**

   ### In Mac OS X version 10.4 or earlier

   **a** From the Finder, navigate to:
      **Applications** > **Utilities**
   **b** Double-click **Printer Setup Utility** or **Print Center**.
   **c** From the Printer List, click **Add**.
   **d** Click the **Default Browser** tab > **More Printers**.
   **e** From the first pop-up menu, select **AppleTalk**.
   **f** From the second pop-up menu, select **Local AppleTalk Zone**.
   **g** Select the printer from the list, and then click **Add**.

# Setting up serial printing

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

After installing the serial or communication (COM) port, configure the printer and the computer so they can communicate. Make sure you have connected the serial cable to the COM port on your printer.

1 Set the parameters in the printer:

  a From the printer control panel, navigate to the menu with port settings.

  b Locate the menu with serial port settings.

  c Make any necessary changes to the serial settings.

  d Save the new settings, and then print a menu settings page.

2 Install the printer driver:

  a Insert the *Software and Documentation* CD.
    If the installation screen does not appear after a minute, then launch the CD manually::
    1 Click ⊞, or click **Start** and then click **Run**.
    2 In the Start Search or Run box, type `D:\setup.exe`, where `D` is the letter of the CD or DVD drive.
    3 Press **Enter**, or click **OK**.

  b Click **Advanced Options** > **Custom Install**.

  c Follow the instructions on the computer screen

  d From the Configure Printer Connection dialog, select **Connect through a port discovered on your computer**, and then select a port.

  e If the port is not in the list, then click **Refresh**.
    *or*
    Navigate to:
    **Add port** > select a port type > enter necessary information > **OK**

  f Click **Continue**.
    1 If you want to add another printer, then click **Add Another**.
    2 If you want to make changes, then select a printer, and then click **Edit**.
    3 Follow the instructions on the computer screen.

  g Click **Finish**.

3 Set the COM port parameters:

  After installing the printer driver, set the serial parameters in the COM port assigned to the printer driver.

  **Note:** Make sure the serial parameters in the COM port match the serial parameters you set in the printer.

  a Open the Device Manager.
    1 Click ⊞, or click **Start** and then click **Run**.
    2 In the Start Search or Run box, type `devmgmt.msc`.
    3 Press **Enter**, or click **OK**.

  b Look for Ports, and then click **+** to expand the list of available ports.

  c Right-click the COM port where you attached the serial cable to your computer (example: COM1).

  d Click **Properties**.

  e On the Port Settings tab, set the serial parameters to the same serial parameters in the printer.
    Check the serial heading of the menu settings page for the printer settings.

  f Click **OK**, and then close all the windows.

  g Print a test page to verify printer installation.

# Minimizing your printer's environmental impact

Lexmark is committed to environmental sustainability and is continually improving its printers to reduce their impact on the environment. We design with the environment in mind, engineer our packaging to reduce materials, and provide collection and recycling programs. For more information, see:

- The Notices chapter
- The Environmental Sustainability section of the Lexmark Web site at **www.lexmark.com/environment**
- The Lexmark recycling program at **www.lexmark.com/recycle**

By selecting certain printer settings or tasks, you may be able to reduce your printer's impact even further. This chapter outlines the settings and tasks that may yield a greater environmental benefit.

## Saving paper and toner

Studies show that as much as 80% of the carbon footprint of a printer is related to paper usage. You can significantly reduce your carbon footprint by using recycled paper and the following printing suggestions, such as printing on both sides of the paper and printing multiple pages on one side of a sheet of paper.

For information on how you can quickly save paper and energy using one printer setting, see "Using Eco-Mode" on page 57.

## Using recycled paper

As an environmentally conscious company, Lexmark supports the use of recycled office paper produced specifically for use in laser printers. For more information on recycled papers that work well with your printer, see "Using recycled paper and other office papers" on page 74.

## Conserving supplies

### Use both sides of the paper

If your printer model supports duplex printing, you can control whether print appears on one or two sides of the paper by selecting **2-sided printing** from the Print dialog or from the Lexmark Toolbar.

### Place multiple pages on one sheet of paper

You can print up to 16 consecutive pages of a multiple-page document onto one side of a single sheet of paper by selecting a setting from the Multipage printing (N-Up) section of the Print dialog screen.

### Check your first draft for accuracy

Before printing or making multiple copies of a document:

- Use the preview feature, which you can select from the Print dialog or from the Lexmark Toolbar to see how the document will look like before you print it.
- Print one copy of the document to check its content and format for accuracy.

## Avoid paper jams

Correctly set the paper type and size to avoid paper jams. For more information, see "Avoiding jams" on page 163.

### Print in black and white

To print all text and graphics using only the black print cartridge, set the printer to Black Only. For more information, see "Printing in black and white" on page 78.

# Saving energy

## Using Eco-Mode

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

If you do not know the IP address of the printer, you can:
- View the IP address on the printer control panel in the TCP/IP section under the Networks/Ports menu.
- Print a network setup page or the menu settings pages and locate the IP address in the TCP/IP section.

2 Click **Settings** > **General Settings** > **Eco-Mode** > select a setting > **Submit**.

| Choose | To |
| --- | --- |
| Off | Use factory default settings for all settings associated with Eco-Mode. This setting supports the performance specifications of your printer. |
| Energy | Reduce energy use, especially when the printer is idle.<br>• The printer enters Sleep mode after one minute of inactivity.<br>• When the printer enters Sleep mode, the printer control panel display is turned off. |
| Energy/Paper | Use all the settings associated with Energy mode and Paper mode. |
| Paper | • Enable the automatic duplex feature.<br>• Turn off print log features. |

## Reducing printer noise

To select a Quiet Mode setting using the Embedded Web Server:

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

If you do not know the IP address of the printer, you can:
- View the IP address on the printer control panel in the TCP/IP section under the Networks/Ports menu.
- Print a network setup page or the menu settings pages and locate the IP address in the TCP/IP section.

2 Click **Settings** > **General Settings** > **Quiet Mode** > select a setting > **Submit**

| Choose | To |
|---|---|
| Off<br><br>**Note:** Selecting **Photo** from the driver may disable Quiet Mode. | Use factory default settings. This setting supports the performance specifications of your printer. |
| On | Reduce printer noise.<br><br>• Print jobs will process at reduced speed.<br>• Fans run at reduced speed or are turned off.<br>• If your printer has faxing capability, fax sounds are reduced or disabled, including those made by the fax speaker and ringer. The fax is placed in standby mode.<br>• The alarm control and cartridge alarm sounds are turned off. |

# Adjusting Sleep Mode

To save energy, you can decrease the number of minutes before the printer enters Sleep Mode.

Available settings range from 1–240 minutes. The factory default setting is 30 minutes.

## Using the Embedded Web Server

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

If you do not know the IP address of the printer, you can:

- View the IP address on the printer control panel in the TCP/IP section under the Networks/Ports menu.
- Print a network setup page or the menu settings pages and locate the IP address in the TCP/IP section.

**2** Click **Settings** > **General Settings** > **Timeouts**.

**3** In the Sleep Mode field, enter the number of minutes you want the printer to wait before it enters Sleep Mode.

**4** Click **Submit**.

## Using the printer control panel

**1** From the home screen, navigate to:

> Settings > General Settings > Timeouts > Sleep Mode

**2** In the Sleep Mode field, select the number of minutes you want the printer to wait before it enters Sleep Mode.

**3** Touch ✓.

# Using Hibernate Mode

Hibernate is an ultra-low power operating mode. When operating in Hibernate mode, all other systems and devices are powered down safely.

## Using the Embedded Web Server

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

If you do not know the IP address of the printer, you can:

- View the IP address on the printer control panel in the TCP/IP section under the Networks/Ports menu.
- Print a network setup page or the menu settings pages and locate the IP address in the TCP/IP section.

**2** Click **Settings** > **General Settings** > **Sleep Button Settings**.

**3** From the Press Sleep Button or Press and Hold Sleep Button drop-down, select **Hibernate**.

**4** Click **Submit**.

### Using the printer control panel

**1** From the home screen, navigate to:

> Settings > **General Settings** > **Press Sleep Button** or **Press and Hold Sleep Button** > **Hibernate**

**2** Touch ✔.

## Adjusting the brightness of the display

To save energy, or if you are have trouble reading your display, adjust the brightness of the display.

Available settings range from 20–100. The factory default setting is 100.

### Using the Embedded Web Server

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

If you do not know the IP address of the printer, you can:

- View the IP address on the printer control panel in the TCP/IP section under the Networks/Ports menu.
- Print a network setup page or the menu settings pages and locate the IP address in the TCP/IP section.

**2** Click **Settings** > **General Settings**.

**3** In the Screen Brightness field, enter the brightness percentage you want for the display.

**4** Click **Submit**.

### Using the printer control panel

**1** From the home screen, navigate to:

> Settings > **General Settings**

**2** Touch the down arrow until `Screen Brightness` appears, and then select a setting.

**3** Touch ✔.

# Recycling

Lexmark provides collection programs and environmentally progressive approaches to recycling. For more information, see:

- The Notices chapter
- The Environmental Sustainability section of the Lexmark Web site at **www.lexmark.com/environment**
- The Lexmark recycling program at **www.lexmark.com/recycle**

# Recycling Lexmark products

To return Lexmark products 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 or region from the list.

**3** Follow the instructions on the computer screen.

**Note:** Printer supplies and hardware not listed in a Lexmark collection program may be recycled through your local recycling center. Contact your local recycling center to determine the items they accept.


# Recycling Lexmark packaging

Lexmark continually strives to minimize packaging. Less packaging helps to ensure that Lexmark printers are transported in the most efficient and environmentally sensitive manner and that there is less packaging to dispose of. These efficiencies result in fewer greenhouse emissions, energy savings, and natural resource savings.

Lexmark cartons are 100% recyclable where corrugated recycling facilities exist. Facilities may not exist in your area.

The foam used in Lexmark packaging is recyclable where foam recycling facilities exist. Facilities may not exist in your area.

When you return a cartridge to Lexmark, you can reuse the box that the cartridge came in. Lexmark will recycle the box.


# Returning Lexmark cartridges for reuse or recycling

The Lexmark Cartridge Collection Program diverts millions of Lexmark cartridges from landfills annually by making it both easy and free for Lexmark customers to return used cartridges to Lexmark for reuse or recycling. One hundred percent of the empty cartridges returned to Lexmark are either reused or demanufactured for recycling. Boxes used to return the cartridges are also recycled.

To return Lexmark cartridges for reuse or recycling, follow the instructions that came with your printer or cartridge and use the pre-paid shipping label. You can also:

**1** Visit our Web site at **www.lexmark.com/recycle**.

**2** From the Toner Cartridges section, select your country from the list.

**3** Follow the instructions on the computer screen.

# Loading paper and specialty media

This section explains how to load the 550-sheet tray, an optional 2,000-sheet tray, a multipurpose feeder, and an optional 550-sheet specialty media drawer. It also includes information about paper orientation, setting the Paper Size and Paper Type, and linking and unlinking trays.

## Setting the paper size and type

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 manually for all trays that do not contain plain paper.

From the home screen navigate to:

 > **Paper Menu** > **Paper Size/Type** > select a tray > select the paper size or type > 

The factory default Paper Type setting is Plain Paper.

## 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
- Portrait Width
- Portrait Height

**Notes:**

- The largest supported Universal size is 216 x 1219 mm (8.5 x 48 in.).
- The smallest supported Universal size is 76 x 127 mm (3 x 5 in.) and loaded in the multipurpose feeder only.

From the home screen, navigate to:

 > **Paper Menu** > **Universal Setup** > **Units of Measure** > select unit of measure > **Portrait Width** or **Portrait Height** > select width or height >

# Loading the standard or optional 550-sheet tray

The printer has one standard 550-sheet tray (Tray 1), and may have one or more optional 550-sheet trays. All 550-sheet trays support the same paper sizes and types.

> ⚠️ **CAUTION—POTENTIAL INJURY:** To reduce the risk of equipment instability, load each paper drawer or tray separately. Keep all other drawers or trays closed until needed.

**1** Pull the tray out.
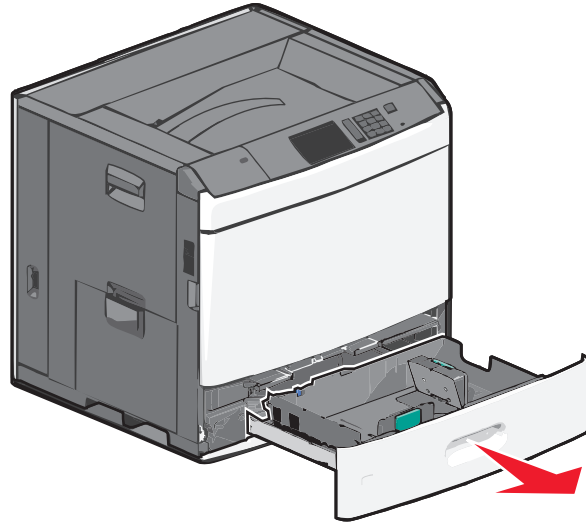


Notice the size indicators on the bottom of the tray. Use these indicators to help position the length and width guides.
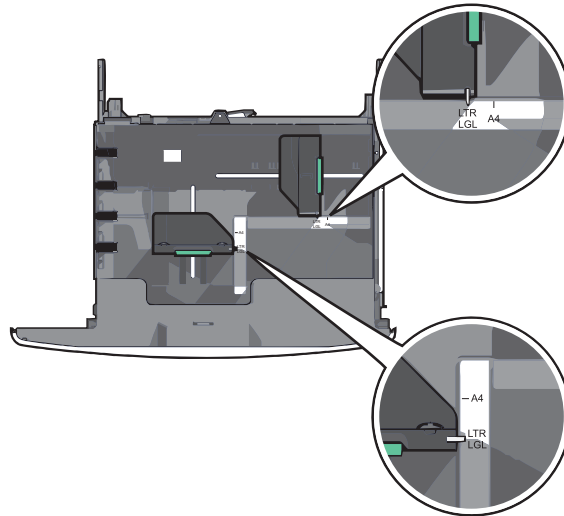
**2** Squeeze and then slide the width guide to the correct position for the paper size you are loading.
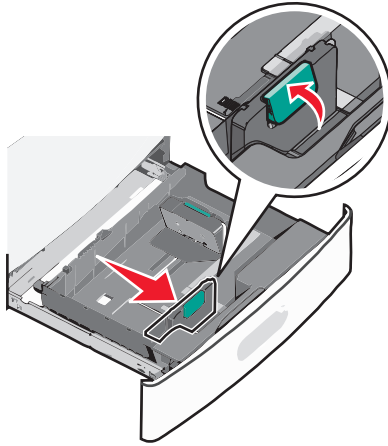
**3** Squeeze and then slide the length guide to the correct position for the paper size you are loading.

> **Note:** The length guide has a locking device. To unlock, push the button on top of the length guide backward. To lock, push the button forward when a length has been selected.
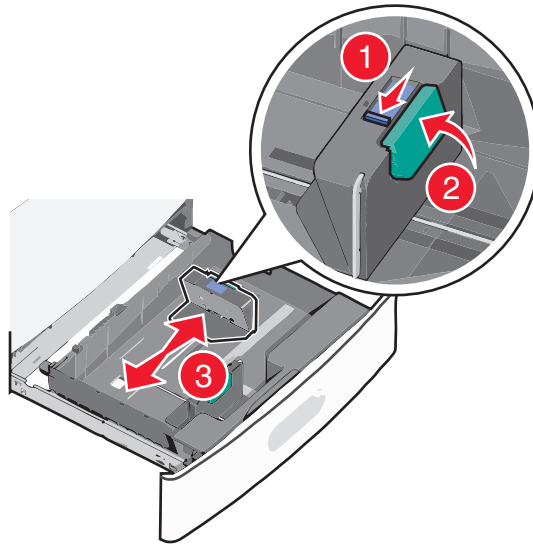
**4** Flex the sheets back and forth to loosen them. Do not fold or crease the paper. Straighten the edges on a level surface.
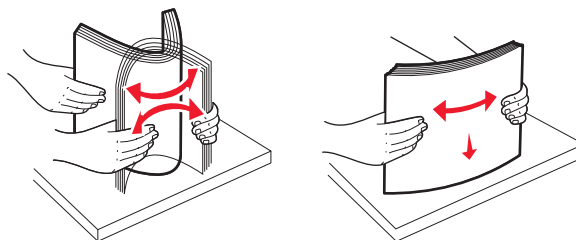
**5** Load the paper stack with the recommended print side faceup.

**Notes:**

- Place the print side facedown for duplex printing.
- Place pre‑punched paper with the holes toward the front of the tray.
- Place letterheads faceup with the header on the left side of the tray.
- Place letterheads facedown with the header on the right side of the tray for duplex printing.
- Make sure the paper is below the maximum fill line located on the edge of the paper tray. Overloading the tray can cause paper jams and possible printer damage.
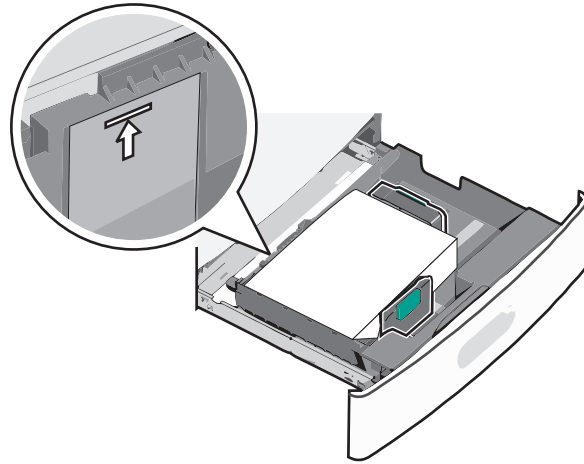


**6** Insert the tray.
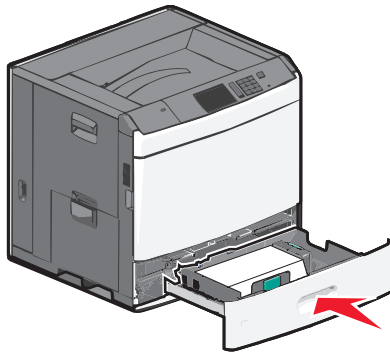


**7** From the printer control panel, verify the Paper Size and Paper Type for the tray based on the paper you loaded.

# Loading the 2000-sheet high-capacity feeder

The high-capacity feeder can hold up to 2,000 sheets of A4-, letter-, or legal-size paper (80 g/m$^2$ or 20 lb).

⚠ **CAUTION—POTENTIAL INJURY:** To reduce the risk of equipment instability, load each paper drawer or tray separately. Keep all other drawers or trays closed until needed.

**1** Pull the tray out.
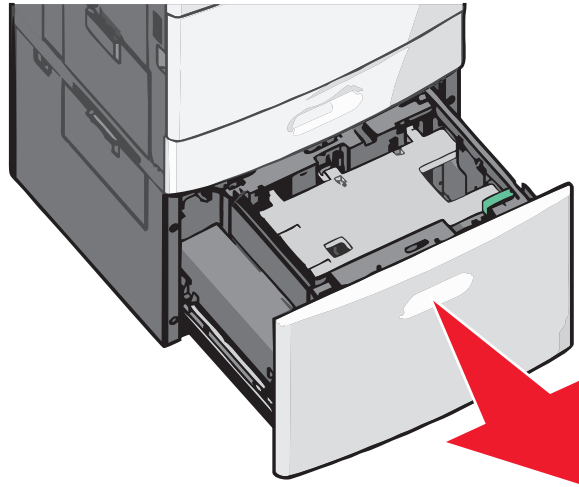


**2** Adjust the width guide as necessary.
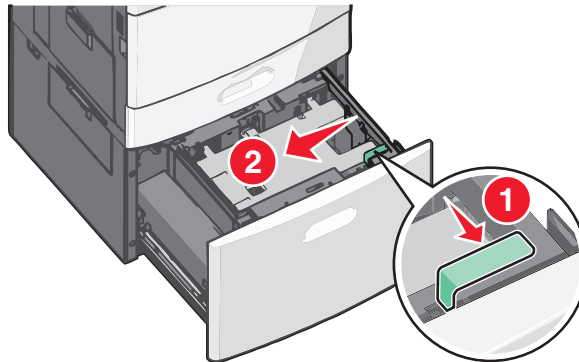


**3** Flex the sheets back and forth to loosen them. Do not fold or crease the paper. Straighten the edges on a level surface.
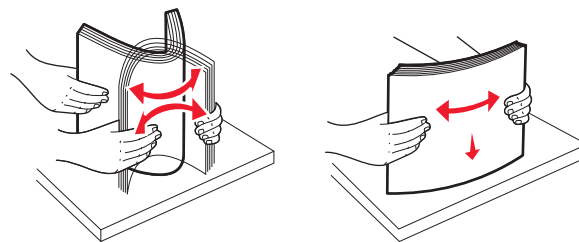
**4** Load paper into the tray with the print side faceup.
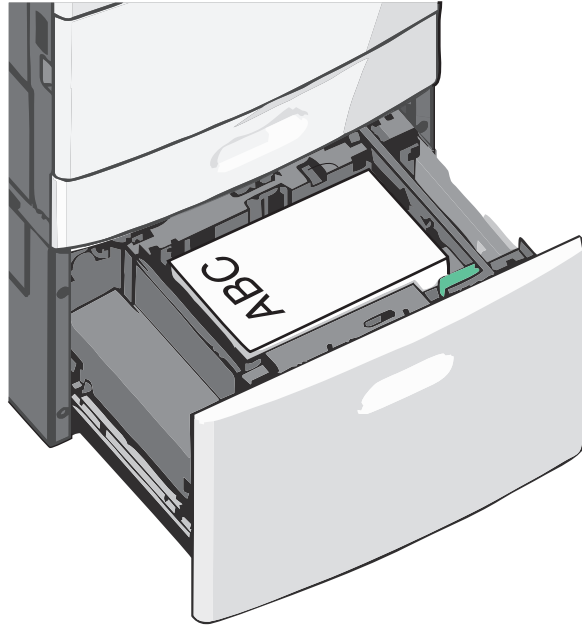


**Note:** Make sure the paper is below the maximum fill line located on the edge of the paper tray. Overloading the tray can cause paper jams.
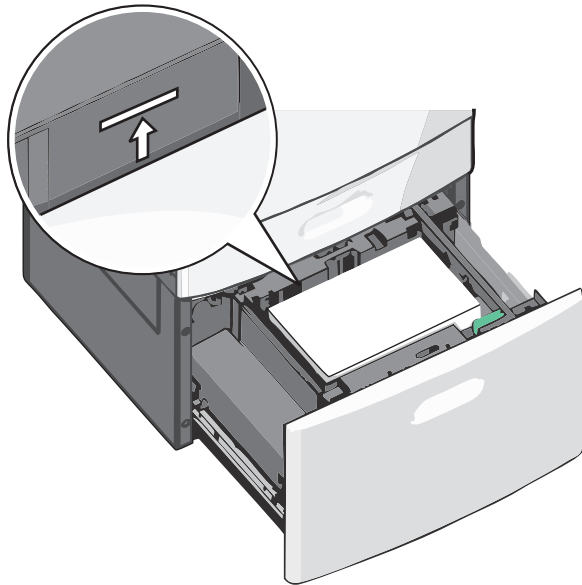


**Notes:**

- Place pre-punched paper with the holes toward the front of the tray.
- Place letterheads faceup with the header on the left side of the tray.
- Place letterheads facedown with the header on the right side of the tray for duplex printing.

**5** Insert the tray.

# Loading the multipurpose feeder

The multipurpose feeder can hold several sizes and types of print media, such as transparencies, labels, card stock, and envelopes. It can be used for single-page or manual printing, or as an additional tray.

The multipurpose feeder can hold approximately:

- 100 sheets of 75-g/m$^2$ (20-lb) paper
- 10 envelopes
- 75 transparencies

The multipurpose feeder accepts paper or specialty media within the following dimensions:

- Width—89 mm (3.5 in.) to 229 mm (9.02 in.)
- Length—127 mm (5 in.) to 1270 mm (50 in.)

**Note:** Maximum width and length can be applied only to short-edge feeding.

**Note:** Do not add or remove paper or specialty media when the printer is printing from the multipurpose feeder or when the printer control panel indicator light is blinking. Doing so may cause a jam.

**1** Pull down the multipurpose feeder door.
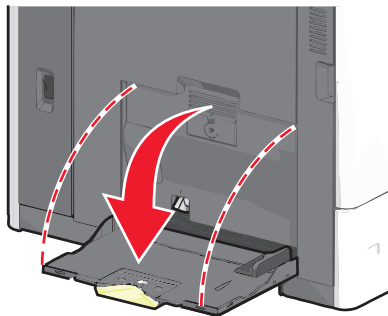


**2** For paper or specialty media that is longer than letter-size paper, gently pull the extension until it is fully extended.
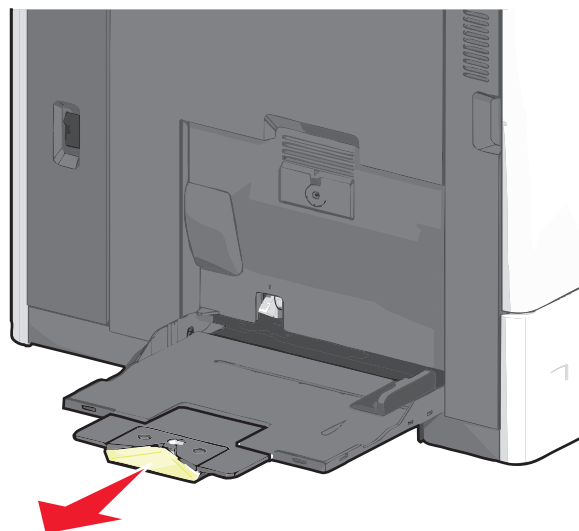
**3** Flex the sheets of paper or specialty media back and forth to loosen them. Do not fold or crease them. Straighten the edges on a level surface.

Paper



Envelopes



Transparencies

**Note:** Avoid scratching or touching the print side.
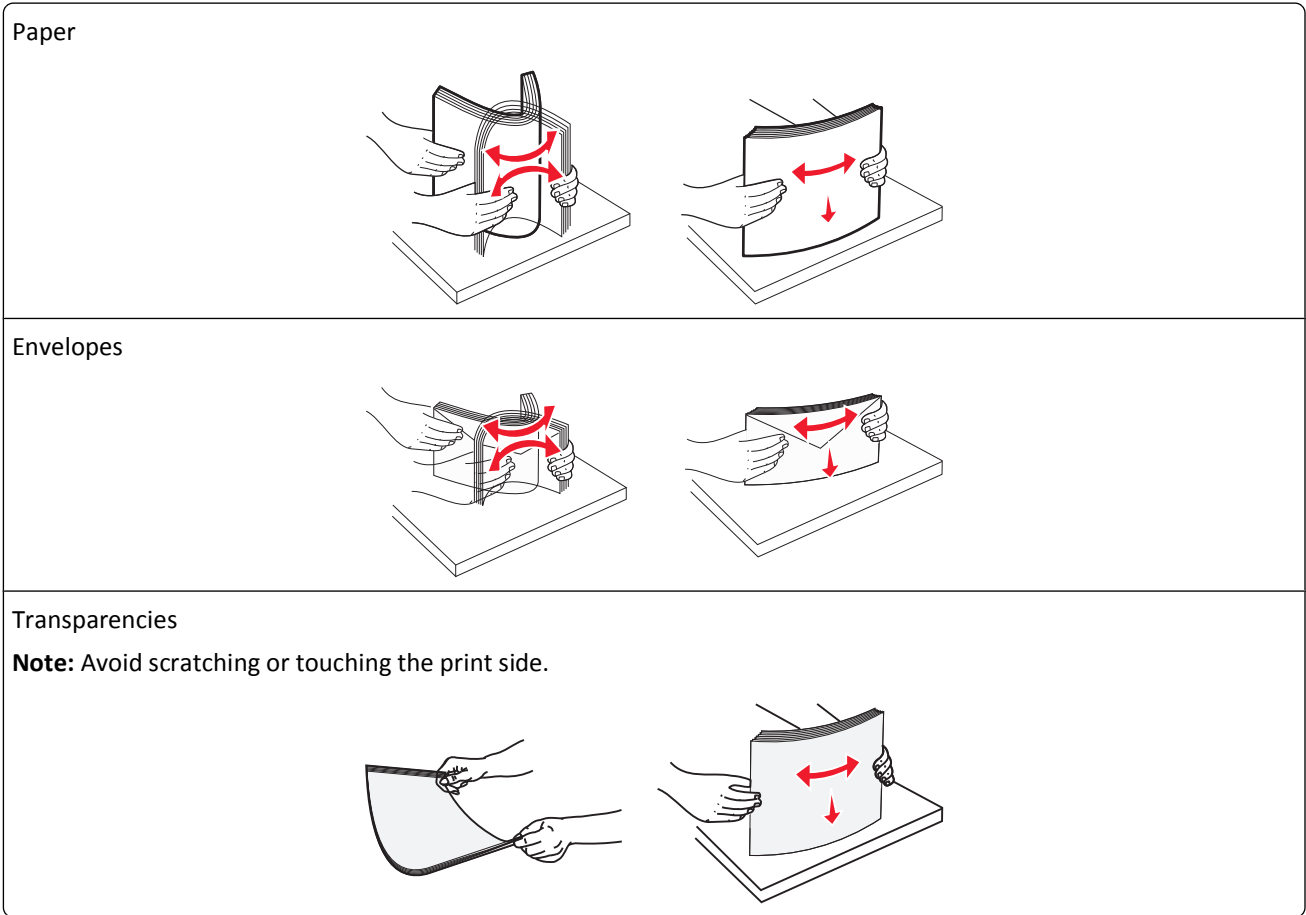


**4** Push the paper pick tab, and then load the paper or specialty media. Slide the stack gently into the multipurpose feeder until it comes to a stop, and then release the paper pick tab.
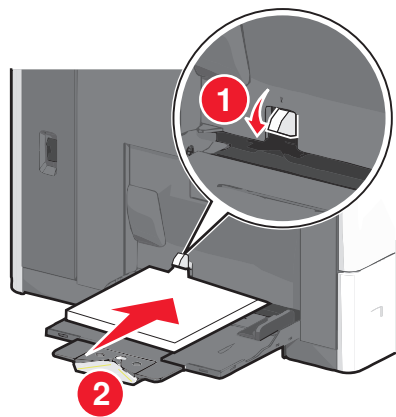


**Warning—Potential Damage:** Pulling the paper out, without pushing the paper pick tab first, may cause jams or the paper pick tab to break.

- Load paper and transparencies with the recommended print side facedown and the short edge entering the printer first.
- For duplex letterhead printing, place the letterhead faceup and the header entering the printer last.

Loading paper and specialty media

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- Load envelopes with the flap side up and to the right.
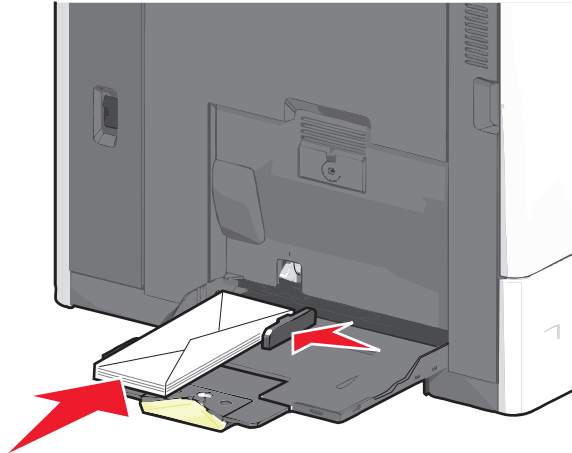


> **Warning—Potential Damage:** Never use envelopes with stamps, clasps, snaps, windows, coated linings, or self-stick adhesives. These envelopes may severely damage the printer.

**Notes:**

- Do not exceed the maximum stack height by forcing paper or transparencies under the stack height limiter.
- Load only one size and type of paper at a time.

**5** Adjust the width guide to lightly touch the edge of the stack. Make sure the paper or specialty media fits loosely in the multipurpose feeder, lies flat, and is not bent or wrinkled.
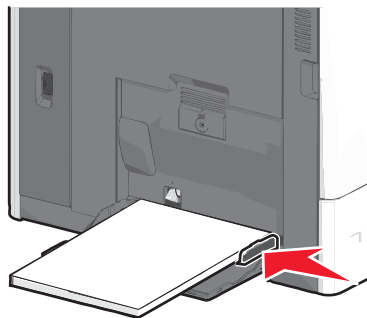


**6** From the printer control panel, set the Paper Size and Paper Type for the multipurpose feeder (MP Feeder Size and MP Feeder Type) based on the paper or specialty media loaded.

# Linking and unlinking trays

## Linking trays

Tray linking is useful for large print jobs or for printing 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 Tray 1 and 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

**Note:** Trays that do not have the same settings as any other tray are not linked.

Change one of the following tray settings:

- Paper Type

  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

  Load a different paper size to automatically change the Paper Size setting for a tray. 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 a tray. The temperature of the fuser varies according to the specified Paper Type. Prints may not be properly processed if an inaccurate Paper Type is selected.

# Linking exit bins

Link exit bins to create a single output source. The printer automatically uses the next available bin as the output source.

The standard exit bin holds up to 550 sheets of 20-lb paper. If you need additional output capacity, you can purchase other optional exit bins.

**Note:** Not all exit bins support every paper size and type.

**1** From the home screen, navigate to:

   ▤ > **Paper Menu** > **Bin Setup**

**2** Touch the bin or bins you want to link, and then touch **Configure Bins** > **Link**.

# Creating a custom name for a paper type

If the printer is on a network, you can use the Embedded Web Server to define a name other than Custom Type [x] for each of the custom paper types loaded into the printer.

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

   **Note:** If you do not know the IP address of the printer, then you can:

   - View the IP address on the printer control panel in the TCP/IP section under the Networks/Ports menu.
   - Print a network setup page or the menu settings pages and locate the IP address in the TCP/IP section.

**2** Click **Settings** > **Paper Menu** > **Custom Name** > type a name > **Submit**.

   **Note:** This custom name will replace the Custom Type [x] name under the Custom Types and Paper Size and Type menus.

**3** Click **Custom Types** > select a paper type > **Submit**.

## Assigning a custom paper type name

**1** From the home screen, navigate to:

![icon] > **Paper Menu** > **Paper Size/Type**

**2** Select the tray number or MP Feeder Type.

**3** Touch the left or right arrow until `Custom Type [x]` or another custom name appears.

**4** Touch ![check].

## Configuring a custom name

If the printer is on a network, then you can use the Embedded Web Server to define a name other than Custom Type [x] for each of the custom paper types loaded into the printer.

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

**Note:** If you do not know the IP address of the printer, then you can:

- View the IP address on the printer control panel in the TCP/IP section under the Networks/Ports menu.
- Print a network setup page or the menu settings pages and locate the IP address in the TCP/IP section.

**2** Click **Settings** > **Paper Menu** > **Custom Types** > select the custom name you want to configure > select a paper or specialty media type > **Submit**.

# 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 x 10 in.), we recommend 90 g/m$^2$ (24 lb) or heavier paper.

**Note:** Duplex is supported only for 60-g/m$^2$–120-g/m$^2$ (16-lb–32-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$^2$ (16 to 24 lb) 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 190°C (374°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 190°C (374°F) without melting or releasing hazardous emissions.

## Using recycled paper and other office papers

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

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

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

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

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

Recycled paper, paper of lower weight (<60 g/m$^2$ [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 in any laser printer (for example, if the paper curls excessively under normal printing conditions).

# Storing paper

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

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

# Supported paper sizes, types, and weights

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

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

For more information, see the *Card Stock & Label Guide* available on the Lexmark Web site at **http://support.lexmark.com**.

## Supported paper sizes

Measurements apply to simplex (one-sided) printing only. For duplex (two-sided) printing, the minimum size is 139.7 x 210 mm (5.50 x 8.27 in.).

| Paper size | Dimensions | Standard 550-sheet tray (Tray 1) | Optional 550-sheet tray | Optional 2,000-sheet tray | Multipurpose feeder | Duplexer |
|---|---|---|---|---|---|---|
| A4 | 210 x 297 mm (8.27 x 11.7 in.) | √ | √ | √ | √ | √ |
| A5 | 148 x 210 mm (5.83 x 8.27 in.) | √ | √ | X | √ | √ |
| A6 | 105 x 148 mm (4.13 x 5.83 in.) | X | X | X | √ | X |
| JIS B5 | 182 x 257 mm (7.17 x 10.1 in.) | √ | √ | X | √ | √ |
| Letter | 215.9 x 279.4 mm (8.5 x 11 in.) | √ | √ | √ | √ | √ |
| Legal | 215.9 x 355.6 mm (8.5 x 14 in.) | √ | √ | √ | √ | √ |
| Executive | 184.2 x 266.7 mm (7.25 x 10.5 in.) | √ | √ | X | √ | √ |
| Oficio (México) | 215.9 x 340.4 mm (8.5 x 13.4 in.) | √ | √ | X | √ | √ |
| Folio | 215.9 x 330.2 mm (8.5 x 13 in.) | √ | √ | X | √ | √ |
| Statement | 139.7 x 215.9 mm (5.5 x 8.5 in.) | √ | √ | X | √ | √ |

[1] Supported by C792 models only.

[2] This formats the envelope size setting for 215.9 x 355.6 mm (8.5 x 14 in.) unless the size is specified by the software application.

| Paper size | Dimensions | Standard 550-sheet tray (Tray 1) | Optional 550-sheet tray | Optional 2,000-sheet tray | Multipurpose feeder | Duplexer |
|---|---|---|---|---|---|---|
| Universal<br>Note: Turn size sensing off to support universal sizes that are close to standard media sizes. | 148 x 210 mm to 215.9 x 355.6 mm (5.83 x 8.27 in. to 8.5 x 14 in.) | ✓ | ✓ | X | ✓ | ✓ |
| | 76.2 x 127 mm (3 x 5 in.) to 215.9 x 355.6 mm (8.5 x 14 in.) | X | X | X | ✓ | X |
| | 76.2 x 127 mm (3 x 5 in.) to 215.9 x 914.4 mm (8.5 x 36 in.)[1] | X | X | X | ✓ | X |
| | 76.2 x 127 mm (3 x 5 in.) to 215.9 x 1219.2 mm (8.5 x 48 in.)[1] | X | X | X | ✓ | X |
| 7 3/4 Envelope (Monarch) | 98.4 x 190.5 mm (3.875 x 7.5 in.) | X | X | X | ✓ | X |
| 9 Envelope | 98.4 x 226.1 mm (3.875 x 8.9 in.) | X | X | X | ✓ | X |
| Com 10 Envelope | 104.8 x 241.3 mm (4.12 x 9.5 in.) | X | X | X | ✓ | X |
| DL Envelope | 110 x 220 mm (4.33 x 8.66 in.) | X | X | X | ✓ | X |
| C5 Envelope | 162 x 229 mm (6.38 x 9.01 in.) | X | X | X | ✓ | X |
| B5 Envelope | 176 x 250 mm (6.93 x 9.84 in.) | X | X | X | ✓ | X |
| Other Envelope[2] | 85.7 x 165 mm to 215.9 x 355.6 mm (3.375 x 6.50 in. to 8.5 x 14 in.) | X | X | X | ✓ | X |

[1] Supported by C792 models only.

[2] This formats the envelope size setting for 215.9 x 355.6 mm (8.5 x 14 in.) unless the size is specified by the software application.

# Supported paper types and weights

The printer supports 60–176 g/m² (16–47 lb) paper weights for one-sided printing. Two-sided printing is supported on 64–176 g/m² (17–47 lb) paper weights.

**Note:** Labels, transparencies, envelopes, and card stock always print at reduced speed.

| Paper type | Standard 550-sheet tray (Tray 1) | Optional 550-sheet tray | Optional 2,000-sheet tray | Multipurpose feeder | Duplexer |
|---|---|---|---|---|---|
| **Paper**<br>• Plain<br>• Recycled<br>• Glossy<br>• Heavy Glossy<br>• Bond<br>• Letterhead<br>• Preprinted<br>• Colored<br>• Light<br>• Heavy<br>• Rough/Cotton<br>• Custom Type [x] | ✓ | ✓ | ✓ | ✓ | ✓ |
| **Card stock** | ✓ | ✓ | X | ✓ | ✓ |
| **Transparencies**[1, 2] | X | X | X | ✓ | X |
| **Labels**[3]<br>• Paper<br>• Vinyl | ✓ | ✓ | X | ✓ | ✓ |
| **Envelopes**[4] | X | X | X | ✓ | X |
| [1] This media is supported only in the multipurpose feeder. | | | | | |
| [2] Do not use inkjet or 3M CG3710 transparencies. | | | | | |
| [3] Paper labels are supported. Other media such as vinyl may show print quality defects in some environments, and prolonged vinyl label usage may reduce fuser life. For more information, see the *Card Stock & Label Guide* available on the Lexmark Web site at **http://support.lexmark.com**. | | | | | |
| [4] Use envelopes that lie flat when individually placed facedown on a table. | | | | | |

# Printing

This chapter covers printing, printer reports, and job cancelation. The selection and handling of paper and specialty media can affect how reliably documents print. For more information, see "Avoiding jams" on page 163 and "Storing paper" on page 74.

## Printing a document

### Printing a document

**1** From the printer control panel Paper menu, set the Paper Type and Paper Size to match the loaded paper.

**2** Send the print job:

#### For Windows users

**a** With a document open, click **File** > **Print**.

**b** Click **Properties**, **Preferences**, **Options**, or **Setup**.

**c** Adjust settings as necessary.

**d** Click **OK** > **Print**.

#### For Macintosh users

**a** Customize the settings as needed in the Page Setup dialog:

    **1** With a document open, choose **File** > **Page Setup**.

    **2** Choose a paper size or create a custom size to match the loaded paper.

    **3** Click **OK**.

**b** Customize the settings as needed in the Print dialog:

    **1** With a document open, choose **File** > **Print**.
       If necessary, click the disclosure triangle to see more options.

    **2** From the Print dialog and pop-up menus, adjust the settings as needed.

       **Note:** To print on a specific paper type, adjust the paper type setting to match the loaded paper, or select the appropriate tray or feeder.

    **3** Click **Print**.

## Printing in black and white

From the home screen, navigate to:

> Settings > Print Settings > Quality Menu > Print Mode > Black Only >

## Adjusting toner darkness

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

If you do not know the IP address of the printer, you can:

- View the IP address on the printer control panel in the TCP/IP section under the Networks/Ports menu.
- Print a network setup page or the menu settings pages and locate the IP address in the TCP/IP section.

**2** Click **Settings** > **Print Settings** > **Quality Menu** > **Toner Darkness**.

**3** Adjust the toner darkness setting.

**4** Click **Submit**.

# Printing from a flash drive

## Printing from a flash drive

**Notes:**

- Before printing an encrypted PDF file, enter the file password from the printer control panel.
- You cannot print files for which you do not have printing permissions.

**1** Insert a flash drive into the USB port.
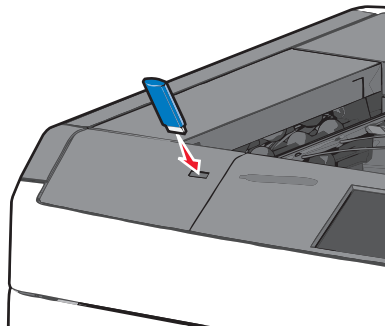


**Notes:**

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

**Warning—Potential Damage:** Do not touch the USB cable, any network adapter, any connector, the memory device, or the printer in the areas shown while actively printing, reading, or writing from the memory device. A loss of data can occur.

**2** From the printer control panel, touch the document you want to print.

**3** Touch the arrows to increase the number of copies to print, and then touch **Print**.

**Notes:**

- Do not remove the flash drive from the USB port until the document has finished printing.
- If you leave the flash drive in the printer after leaving the initial USB menu screen, then you can still print files from the flash drive as held jobs.

## Supported flash drives and file types

| Flash drive | File type |
|---|---|
| • Lexar JumpDrive 2.0 Pro (256MB, 512MB, or 1GB sizes)<br>• SanDisk Cruzer Mini (256MB, 512MB, or 1GB sizes)<br><br>**Notes:**<br><br>• Hi-Speed USB flash drives must support the Full-Speed standard. Devices supporting only USB low-speed capabilities are not supported.<br>• USB flash drives must support the FAT (*File Allocation Tables*) system. Devices formatted with NTFS (*New Technology File System*) or any other file system are not supported. | Documents:<br>• .pdf<br>• .xps<br>Images:<br>• .dcx<br>• .gif<br>• .JPEG<br>• .jpg<br>• .bmp<br>• .pcx<br>• .TIFF<br>• .tif<br>• .png |

# Printing specialty documents

## Tips on using letterhead

- Use letterhead designed specifically for laser printers.
- Print samples on the letterhead being considered for use before buying large quantities.
- Before loading letterhead, flex the sheets to prevent them from sticking together.
- Observe proper page orientation.

| Source | Print side | Paper orientation |
|---|---|---|
| – Standard 550-sheet tray<br>– Optional 550-sheet tray<br>– Optional 2000-sheet high-capacity feeder | Preprinted letterhead design is placed faceup. | The top edge of the sheet with the logo is placed at the left side of the tray. |
| Duplex (two-sided) printing from trays | Preprinted letterhead design is placed facedown. | The top edge of the sheet with the logo is placed at the right side of the tray. |
| Multipurpose feeder (simplex printing) | Preprinted letterhead design is placed facedown. | The top edge of the sheet with the logo should enter the multipurpose feeder first. |
| Multipurpose feeder (duplex printing) | Preprinted letterhead design is placed faceup. | The top edge of the sheet with the logo should enter the multipurpose feeder last. |
| **Note:** Check with the manufacturer or vendor to determine whether the chosen preprinted letterhead is acceptable for laser printers. | | |

## Tips on using transparencies

- Print a test page on the transparencies being considered for use before buying large quantities.
- Feed transparencies from the multipurpose feeder only.
- From the Paper menu, set the MP Feeder Type to Transparency.
- Use transparencies designed specifically for laser printers. Transparencies must be able to withstand temperatures of 230°C (446°F) without melting, discoloring, offsetting, or releasing hazardous emissions.
- To prevent print quality problems, avoid getting fingerprints on the transparencies.
- Before loading transparencies, flex the stack to prevent sheets from sticking together.
- We recommend Lexmark transparencies. For ordering information, see the Lexmark Web site at **www.lexmark.com**.

## Tips on using envelopes

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

- Use envelopes designed specifically for laser printers. Check with the manufacturer or vendor to ensure that the envelopes can withstand temperatures up to 220°C (446°F) without sealing, wrinkling, curling excessively, or releasing hazardous emissions.
- For best performance, use envelopes made from 90-g/m$^2$ (24-lb bond) paper or 25% cotton. All-cotton envelopes must not exceed 70-g/m$^2$ (20-lb bond) weight.

- Use only new envelopes from undamaged packages.
- 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 guides to fit the width of the envelopes.

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

## Tips on using labels

**Note:** Use paper label sheets for occasional use only. Vinyl, pharmacy, and dual-sided labels are not supported.

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

When printing on labels:
- Use labels designed specifically for laser/LED printers. Check with the manufacturer or vendor to verify that:
  - The labels can withstand temperatures up to 210°C (410°F) without sealing, excessive curling, wrinkling, or releasing hazardous emissions.

    **Note:** Labels can be printed at a higher fusing temperature up to 220°C (428°F) if Label Weight is set to Heavy. Select this setting using the Embedded Web Server, or from the printer control panel Paper menu.
  - Label adhesives, face sheet (printable stock), and topcoats can withstand up to 25 psi (172 kPa) pressure without delaminating, oozing around the edges, or releasing hazardous fumes.
- Do not use labels with slick backing material.
- Use full label sheets. Partial sheets may cause labels to peel off during printing, resulting in a jam. Partial sheets also contaminate the printer and the cartridge with adhesive, and could void the printer and cartridge warranties.
- Do not use labels with exposed adhesive.
- Do not print within 1 mm (0.04 in.) of the edge of the label, of the perforations, or between die-cuts of the label.
- Be sure adhesive backing does not reach to the sheet edge. Zone coating of the adhesive at least 1 mm (0.04 in.) away from edges is recommended. Adhesive material contaminates the printer and could void the warranty.
- If zone coating of the adhesive is not possible, remove a 1.6 mm (0.06 in.) strip on the leading and driver edge, and use a non-oozing adhesive.
- Portrait orientation works best, especially when printing bar codes.

# Tips on using card stock

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

- From the Paper menu, set the Paper Type to Card Stock.
- Select the appropriate Paper Texture setting.
- Be aware that preprinting, perforation, and creasing may significantly affect the print quality and cause jams or other paper handling problems.
- Check with the manufacturer or vendor to ensure the card stock can withstand temperatures up to 220°C (446°F) without releasing hazardous emissions.
- Do not use preprinted card stock manufactured with chemicals that may contaminate the printer. Preprinting introduces semi-liquid and volatile components into the printer.
- Use grain short card stock when possible.

# Printing confidential and other held jobs

## Storing print jobs in the printer

You can set the printer to store print jobs in the printer memory until you start the print job from the printer control panel.

All print jobs that can be initiated by the user at the printer are called *held jobs*.

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

| Print job type | Description |
|---|---|
| Confidential | Confidential lets you hold print jobs in the computer until you enter the PIN from the control panel.<br>**Note:** The PIN is set from the computer. It must be four digits, using the numbers 0–9. |
| Verify | Verify lets you print one copy of a print job while the printer holds the remaining copies. It allows you to examine if the first copy is satisfactory. The print job is automatically deleted from the printer memory once all copies are printed. |
| Reserve | Reserve allows the printer to store print jobs for printing at a later time. The print jobs are held until deleted from the Help Jobs menu. |
| Repeat | Repeat prints *and* stores print jobs in the printer memory for reprinting. |

# Printing confidential and other held jobs

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

## For Windows users

1 With a document open, click **File** > **Print**.

2 Click **Properties**, **Preferences**, **Options**, or **Setup**.

3 Click **Print and Hold**.

4 Select the print job type (Confidential, Repeat, Reserve, or Verify), and then assign a user name. For a confidential print job, also enter a four-digit PIN.

5 Click **OK** or **Print**.

6 From the printer home screen, release the print job.

- For confidential print jobs, navigate to:

  **Held jobs** > your user name > **Confidential Jobs** > enter PIN > select print job > specify number of copies > **Print**

- For other print jobs, navigate to:

  **Held jobs** > your user name > select print job > specify number of copies > **Print**

## For Macintosh users

1 With a document open, choose **File** > **Print**.

  If necessary, click the disclosure triangle to see more options.

2 From the print options or Copies & Pages pop-up menu, choose **Job Routing**.

3 Select the print job type (Confidential, Repeat, Reserve, or Verify), and then assign a user name. For a confidential print job, also enter a four-digit PIN.

4 Click **OK** or **Print**.

5 From the printer home screen, release the print job.

- For confidential print jobs, navigate to:

  **Held jobs** > your user name > **Confidential Jobs** > enter PIN > select print job > specify number of copies > **Print**

- For other print jobs, navigate to:

  **Held jobs** > your user name > select print job > specify number of copies > **Print**

# Printing information pages

## Printing a font sample list

1 From the home screen, navigate to:

  ▤ > **Reports** > **Print Fonts**

2 Touch **PCL Fonts** or **PostScript Fonts**.

## Printing a directory list

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

From the home screen, navigate to:

📋 > **Reports** > **Print Directory**

# 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 printer control panel, or from a computer depending on the operating system.

## Canceling a print job from the printer control panel

**1** Touch **Cancel Jobs** on the touch screen, or press ❌ on the keypad.

**2** Touch the job you want to cancel, and then touch **Delete Selected Jobs**.

## Canceling a print job from the computer

### For Windows users

**1** Open the printers folder:

   **a** Click 🔵, or click **Start** and then click **Run**.

   **b** In the Start Search or Run box, type `control printers`.

   **c** Press **Enter**, or click **OK**.

**2** Double-click the printer icon.

**3** Select the print job you want to cancel.

**4** From the keyboard, press **Delete**.

### For Macintosh users

In Mac OS X version 10.5 or later:

**1** From the Apple menu, choose **System Preferences** > **Print & Fax** > **Open Print Queue**.

**2** From the printer window, select the print job you want to cancel.

**3** From the icon bar at the top of the window, click the **Delete** icon.

In Mac OS X version 10.4 or earlier:

**1** From the Finder, navigate to:

   **Go** > **Applications**

**2** Double-click **Utilities** > **Print Center** or **Printer Setup Utility**.

**3** Double-click the printer icon.

**4** From the printer window, select the print job you want to cancel.

**5** From the icon bar at the top of the window, click the **Delete** icon.

# Understanding printer menus

## Menus list

| Supplies | Paper Menu | Reports | Settings |
|---|---|---|---|
| Cyan Cartridge | Default Source | Menu Settings Page | General Settings |
| Magenta Cartridge | Paper Size/Type | Device Statistics | Flash Drive Menu |
| Yellow Cartridge | Configure MP | Network Setup Page | Print Settings |
| Black Cartridge | Substitute Size | Network [x] Setup Page | Setup Menu |
| Waste Toner Bottle | Paper Texture | Profiles List | Finishing Menu |
| Fuser | Paper Weight | Print Fonts | Quality Menu |
| Transfer Module | Paper Loading | Print Directory | Job Accounting Menu |
| Staples | Custom Types | Asset Report | Utilities Menu |
| Hole Punch Box | Custom Names | | XPS Menu |
| | Custom Bin Names | | PDF Menu |
| | Universal Setup | | PostScript Menu |
| | Bin Setup | | PCL Emul Menu |
| | | | HTML Menu |
| | | | Image Menu |

| Security | Network/Ports | Help |
|---|---|---|
| Miscellaneous Security Settings | Active NIC | Print All Guides |
| Confidential Print | Standard Network or Network [x]* | Color Quality |
| Disk Wiping | Standard USB | Print Quality |
| Security Audit Log | Parallel [x] | Printing Guide |
| Set Date and Time | Serial [x] | Media Guide |
| | SMTP Setup | Print Defects Guide |
| | | Menu Map |
| | | Information Guide |
| | | Connection Guide |
| | | Moving Guide |
| | | Supplies Guide |

* Depending on the printer setup, this menu appears as Standard Network, Network [x], or Wireless Network.

# Supplies menu

| Menu item | Description |
|---|---|
| **Cyan Cartridge**<br>Early Warning<br>Invalid<br>Critically Low<br>Missing<br>Defective<br>OK<br>Unsupported | Shows the status of the cyan print cartridge |
| **Magenta Cartridge**<br>Early Warning<br>Invalid<br>Critically Low<br>Missing<br>Defective<br>OK<br>Unsupported | Shows the status of the magenta print cartridge |
| **Yellow Cartridge**<br>Early Warning<br>Invalid<br>Critically Low<br>Missing<br>Defective<br>OK<br>Unsupported | Shows the status of the yellow print cartridge |
| **Black Cartridge**<br>Early Warning<br>Invalid<br>Critically Low<br>Missing<br>Defective<br>OK<br>Unsupported | Shows the status of the black print cartridge |
| **Waste Toner Bottle**<br>Near Full<br>Replace<br>Missing<br>OK | Shows the status of the waste toner bottle |

| Menu item | Description |
|---|---|
| **Fuser**<br>Early Warning<br>Low<br>Replace<br>Missing<br>OK | Shows the status of the fuser |
| **Transfer module**<br>Early Warning<br>Low<br>Replace<br>Missing<br>OK | Shows the status of the transfer module |
| **Staple Cartridge**<br>Early Warning<br>Low<br>Replace<br>Missing<br>OK | Shows the status of the staple cartridge |
| **Hole Punch Box**<br>Near Full<br>Replace<br>Missing<br>OK | Shows the status of the hole punch box |

# Paper menu

## Default Source menu

| Menu item | Description |
|---|---|
| **Default Source**<br>Tray [x]<br>MP Feeder<br>Manual Paper<br>Manual Envelope | Sets a default paper source for all print jobs<br><br>**Notes:**<br><br>• Tray 1 (standard tray) is the factory default setting.<br>• From the Paper menu, Configure MP feeder must be set to Cassette for MP feeder to appear as a menu setting.<br>• If the same size and type of paper are in two trays and the Paper Size and Paper Type settings match, then the trays are automatically linked. When one tray is empty, the print job continues using the linked tray. |

# Paper Size/Type menu

| Menu item | Description |
|---|---|
| **Tray [x] Size**<br>   Letter<br>   Legal<br>   Executive<br>   Oficio (Mexico)<br>   Folio<br>   Statement<br>   Universal<br>   A4<br>   A5<br>   JIS B5 | Specifies the paper size loaded in each tray<br><br>**Notes:**<br><br>• Letter is the US factory default setting. A4 is the international factory default setting.<br>• For trays with automatic size sensing, only the size detected by the hardware appears.<br>• If the same size and type of paper are in two trays and the Paper Size and Paper Type settings match, then the trays are automatically linked. When one tray is empty, the print job uses the linked tray. |
| **Tray [x] Type**<br>   Plain Paper<br>   Card Stock<br>   Transparency<br>   Recycled<br>   Glossy<br>   Heavy Glossy<br>   Labels<br>   Vinyl Labels<br>   Bond<br>   Letterhead<br>   Preprinted<br>   Colored Paper<br>   Light Paper<br>   Heavy Paper<br>   Rough/Cotton Paper<br>   Custom Type [x] | Specifies the type of paper loaded in each tray<br><br>**Notes:**<br><br>• Plain Paper is the factory default setting for Tray 1. Custom Type [x] is the factory default setting for all other trays.<br>• If available, a user-defined name will appear instead of Custom Type [x].<br>• Use this menu item to configure automatic tray linking. |
| **Note:** Only installed trays are listed in this menu. | |

| Menu item | Description |
|---|---|
| **MP Feeder Size**<br>Letter<br>Legal<br>Executive<br>Oficio (Mexico)<br>Folio<br>Statement<br>Universal<br>7 3/4 Envelope<br>9 Envelope<br>10 Envelope<br>DL Envelope<br>C5 Envelope<br>B5 Envelope<br>Other Envelope<br>A4<br>A5<br>A6<br>JIS B5 | Specifies the paper size loaded in the multipurpose feeder<br><br>**Notes:**<br><br>• Letter is the US factory default setting. A4 is the international factory default setting.<br>• From the Paper menu, Configure MP Feeder must be set to Cassette for MP Feeder to appear as a menu item. |
| **MP Feeder Type**<br>Custom Type [x]<br>Plain Paper<br>Card Stock<br>Transparency<br>Recycled<br>Glossy<br>Heavy Glossy<br>Labels<br>Vinyl Labels<br>Bond<br>Envelope<br>Rough Envelope<br>Letterhead<br>Preprinted<br>Colored Paper<br>Light Paper<br>Heavy Paper<br>Rough/Cotton Paper | Specifies the type of paper loaded in the multipurpose feeder<br><br>**Notes:**<br><br>• Custom Type [x] is the factory default setting.<br>• From the Paper menu, Configure MP Feeder must be set to Cassette for MP Feeder to appear as a menu item. |
| **Note:** Only installed trays are listed in this menu. ||

| Menu item | Description |
|---|---|
| **Manual Paper Size**<br>Letter<br>Legal<br>Executive<br>Oficio (Mexico)<br>Folio<br>Statement<br>Universal<br>A4<br>A5<br>A6<br>JIS B5 | Specifies the size of the paper being manually loaded<br>**Note:** Letter is the US factory default setting. A4 is the international factory default setting. |
| **Manual Paper Type**<br>Plain Paper<br>Card Stock<br>Transparency<br>Recycled<br>Glossy<br>Heavy Glossy<br>Labels<br>Vinyl Labels<br>Bond<br>Letterhead<br>Preprinted<br>Colored Paper<br>Light Paper<br>Heavy Paper<br>Rough/Cotton Paper<br>Custom Type [x] | Specifies the type of paper being manually loaded<br>**Note:** Plain Paper is the factory default setting. |
| **Manual Envelope Size**<br>10 Envelope<br>DL Envelope<br>C5 Envelope<br>B5 Envelope<br>Other Envelope<br>7 3/4 Envelope<br>9 Envelope | Specifies the size of the envelope being manually loaded<br>**Note:** 10 Envelope is the US factory default setting. DL Envelope is the international factory default setting. |
| **Manual Envelope Type**<br>Envelope<br>Rough Envelope<br>Custom Type [x] | Specifies the type of envelope being manually loaded<br>**Note:** Envelope is the factory default setting. |
| **Note:** Only installed trays are listed in this menu. | |

# Configure MP menu

| Menu item | Description |
|---|---|
| **Configure MP**<br>   Cassette<br>   Manual<br>   First | Determines when the printer selects paper from the multipurpose feeder<br><br>**Notes:**<br><br>• Cassette is the factory default setting. Cassette configures the multipurpose feeder as the automatic paper source.<br>• Manual sets the multipurpose feeder only for manual feed print jobs.<br>• First configures the multipurpose feeder as the primary paper source. |

# Substitute Size menu

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

# Paper Texture menu

| Menu item | Description |
|---|---|
| **Plain Texture**<br>   Normal<br>   Rough<br>   Smooth | Specifies the relative texture of the plain paper loaded<br>**Note:** Normal is the factory default setting. |
| **Card Stock Texture**<br>   Normal<br>   Rough<br>   Smooth | Specifies the relative texture of the card stock loaded<br><br>**Notes:**<br><br>• Normal is the factory default setting.<br>• Settings appear only if card stock is supported. |
| **Transparency Texture**<br>   Normal<br>   Rough<br>   Smooth | Specifies the relative texture of the transparencies loaded<br>**Note:** Normal is the factory default setting. |
| **Recycled Texture**<br>   Normal<br>   Rough<br>   Smooth | Specifies the relative texture of the recycled paper loaded<br>**Note:** Normal is the factory default setting. |

| Menu item | Description |
|---|---|
| **Glossy Texture**<br>Normal<br>Rough<br>Smooth | Specifies the relative texture of the glossy paper loaded<br>**Note:** Normal is the factory default setting. |
| **Heavy Glossy Texture**<br>Normal<br>Rough<br>Smooth | Specifies the relative texture of the glossy paper loaded<br>**Note:** Normal is the factory default setting. |
| **Labels Texture**<br>Normal<br>Rough<br>Smooth | Specifies the relative texture of the labels loaded<br>**Note:** Normal is the factory default setting. |
| **Vinyl Labels Texture**<br>Normal<br>Rough<br>Smooth | Specifies the relative texture of the vinyl labels loaded<br>**Note:** Normal is the factory default setting. |
| **Bond Texture**<br>Rough<br>Smooth<br>Normal | Specifies the relative texture of the bond paper loaded<br>**Note:** Rough is the factory default setting. |
| **Envelope Texture**<br>Normal<br>Rough<br>Smooth | Specifies the relative texture of the envelopes loaded<br>**Note:** Normal is the factory default setting. |
| **Rough Envelope Texture**<br>Rough | Specifies the relative texture of the envelopes loaded<br>**Note:** Rough is the factory default setting. |
| **Letterhead Texture**<br>Normal<br>Rough<br>Smooth | Specifies the relative texture of the letterhead loaded<br>**Note:** Normal is the factory default setting. |
| **Preprinted Texture**<br>Normal<br>Rough<br>Smooth | Specifies the relative texture of the preprinted paper loaded<br>**Note:** Normal is the factory default setting. |
| **Colored Texture**<br>Normal<br>Rough<br>Smooth | Specifies the relative texture of the colored paper loaded<br>**Note:** Normal is the factory default setting. |
| **Light Texture**<br>Normal<br>Rough<br>Smooth | Specifies the relative texture of the paper loaded<br>**Note:** Normal is the factory default setting. |

| Menu item | Description |
|---|---|
| **Heavy Texture**<br>Normal<br>Rough<br>Smooth | Specifies the relative texture of the paper loaded<br>**Note:** Normal is the factory default setting. |
| **Rough/Cotton Texture**<br>Rough | Specifies the relative texture of the cotton paper loaded<br>**Note:** Rough is the factory default setting. |
| **Custom [x] Texture**<br>Normal<br>Rough<br>Smooth | Specifies the relative texture of the custom paper loaded<br>**Notes:**<br><br>• Normal is the factory default setting.<br>• Settings appear only if the custom type is supported. |

## Paper Weight menu

| Menu item | Description |
|---|---|
| **Plain Weight**<br>Normal<br>Heavy<br>Light | Specifies the relative weight of the plain paper loaded<br>**Note:** Normal is the factory default setting. |
| **Card Stock Weight**<br>Normal<br>Heavy<br>Light | Specifies the relative weight of the card stock loaded<br>**Notes:**<br><br>• Normal is the factory default setting.<br>• Settings appear only if card stock is supported. |
| **Transparency Weight**<br>Normal<br>Heavy<br>Light | Specifies the relative weight of the transparencies loaded<br>**Note:** Normal is the factory default setting. |
| **Recycled Weight**<br>Normal<br>Heavy<br>Light | Specifies the relative weight of the recycled paper loaded<br>**Note:** Normal is the factory default setting. |
| **Glossy Weight**<br>Normal<br>Heavy<br>Light | Specifies the relative weight of the glossy paper loaded<br>**Note:** Normal is the factory default setting. |
| **Heavy Glossy Weight**<br>Heavy | Specifies the relative weight of the glossy paper loaded<br>**Note:** Heavy is the factory default setting. |
| **Labels Weight**<br>Normal<br>Heavy<br>Light | Specifies the relative weight of the labels loaded<br>**Note:** Normal is the factory default setting. |

| Menu item | Description |
|---|---|
| **Vinyl Labels Weight**<br>Normal<br>Heavy<br>Light | Specifies the relative weight of vinyl labels loaded<br>**Note:** Normal is the factory default setting. |
| **Bond Weight**<br>Normal<br>Heavy<br>Light | Specifies the relative weight of the bond paper loaded<br>**Note:** Normal is the factory default setting. |
| **Envelope Weight**<br>Normal<br>Heavy<br>Light | Specifies the relative weight of the envelopes loaded<br>**Note:** Normal is the factory default setting. |
| **Rough Envelope Weight**<br>Heavy<br>Light<br>Normal | Specifies the relative weight of the envelopes loaded<br>**Note:** Heavy is the factory default setting. |
| **Letterhead Weight**<br>Normal<br>Heavy<br>Light | Specifies the relative weight of the letterhead loaded<br>**Note:** Normal is the factory default setting. |
| **Preprinted Weight**<br>Normal<br>Heavy<br>Light | Specifies the relative weight of the preprinted paper loaded<br>**Note:** Normal is the factory default setting. |
| **Colored Weight**<br>Normal<br>Heavy<br>Light | Specifies the relative weight of the colored paper loaded<br>**Note:** Normal is the factory default setting. |
| **Light Weight**<br>Light | Specifies the relative weight of the paper loaded<br>**Note:** Light is the factory default setting. |
| **Heavy Weight**<br>Heavy | Specifies the relative weight of the paper loaded<br>**Note:** Heavy is the factory default setting. |
| **Rough/Cotton Weight**<br>Normal<br>Heavy<br>Light | Specifies the relative weight of the cotton paper loaded<br>**Note:** Normal is the factory default setting. |
| **Custom [x] Weight**<br>Normal<br>Heavy<br>Light | Specifies the relative weight of the custom paper loaded<br>**Notes:**<br>• Normal is the factory default setting.<br>• Settings appear only if the custom type is supported. |

# Paper Loading menu

| Menu item | Description |
|---|---|
| **Card Stock Loading**<br>Off<br>Duplex | Determines whether 2-sided printing occurs for all print jobs that specify Card Stock as the paper type<br>**Note:** Off is the factory default setting. |
| **Recycled Loading**<br>Off<br>Duplex | Determines whether 2-sided printing occurs for all print jobs that specify Recycled as the paper type<br>**Note:** Off is the factory default setting. |
| **Glossy Loading**<br>Off<br>Duplex | Determines whether 2-sided printing occurs for all print jobs that specify Glossy as the paper type<br>**Note:** Off is the factory default setting. |
| **Heavy Glossy Loading**<br>Off<br>Duplex | Determines whether 2-sided printing occurs for all print jobs that specify Heavy Glossy as the paper type<br>**Note:** Off is the factory default setting. |
| **Labels Loading**<br>Off<br>Duplex | Determines whether 2-sided printing occurs for all print jobs that specify Labels as the paper type<br>**Note:** Off is the factory default setting. |
| **Vinyl Labels Loading**<br>Off<br>Duplex | Determines whether 2-sided printing occurs for all print jobs that specify Vinyl Labels as the paper type<br>**Note:** Off is the factory default setting. |
| **Bond Loading**<br>Off<br>Duplex | Determines whether 2-sided printing occurs for all print jobs that specify Bond as the paper type<br>**Note:** Off is the factory default setting. |
| **Letterhead Loading**<br>Off<br>Duplex | Determines whether 2-sided printing occurs for all print jobs that specify Letterhead as the paper type<br>**Note:** Off is the factory default setting. |
| **Preprinted Loading**<br>Off<br>Duplex | Determines whether 2-sided printing occurs for all print jobs that specify Preprinted as the paper type<br>**Note:** Off is the factory default setting. |
| **Colored Loading**<br>Off<br>Duplex | Determines whether 2-sided printing occurs for all print jobs that specify Colored as the paper type<br>**Note:** Off is the factory default setting. |
| **Light Loading**<br>Off<br>Duplex | Determines whether 2-sided printing occurs for all print jobs that specify Light as the paper type<br>**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, then all print jobs are sent through the duplex unit, including 1-sided print jobs.

| Menu item | Description |
|---|---|
| **Heavy Loading**<br>Off<br>Duplex | Determines whether 2-sided printing occurs for all print jobs that specify Heavy as the paper type<br>**Note:** Off is the factory default setting. |
| **Rough/Cotton Loading**<br>Off<br>Duplex | Determines whether 2-sided printing occurs for all print jobs that specify Rough or Cotton as the paper type<br>**Note:** Off is the factory default setting. |
| **Custom [x] Loading**<br>Off<br>Duplex | Determines whether 2-sided printing occurs for all print jobs that specify Custom [x] as the paper type<br>**Notes:**<br><br>• Off is the factory default setting.<br>• Custom [x] Loading is available only if the custom paper type is supported. |
| **Notes:**<br><br>• Duplex sets the printer default to 2-sided printing for every print job unless 1-sided printing is selected from Print Properties.<br>• If Duplex is selected, then all print jobs are sent through the duplex unit, including 1-sided print jobs. | |

## Custom Types menu

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

## Custom Names menu

| Menu item | Definition |
|---|---|
| **Custom Name [x]**<br>    [none] | Specify a custom name for a paper type. This name replaces the `Custom Type [x]` name in the printer menus. |

## Custom Bin Names menu

| Menu Item | Description |
|---|---|
| **Standard Bin** | Specifies a custom name for the Standard Bin |
| **Bin [x]** | Specifies a custom name for Bin [x] |

## Universal Setup menu

These menu items are used to specify the height and width 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**<br>    Inches<br>    Millimeters | Identifies the unit of measure<br>**Note:** Inches is the US factory default setting. Millimeters is the international factory default setting. |
| **Portrait Width**<br>    3–48 inches<br>    76–1219 mm | Sets the portrait width<br>**Notes:**<br>• If the width exceeds the maximum, then the printer uses the maximum width allowed.<br>• 8.5 inches is the US factory default setting. 216 mm is the international factory default setting.<br>• The width can be increased in 0.01-inch or in 1-mm increments. |
| **Portrait Height**<br>    3–48 inches<br>    76–1219 mm | Sets the portrait height<br>**Notes:**<br>• If the height exceeds the maximum, then the printer uses the maximum height allowed.<br>• 14 inches is the US factory default setting. 356 mm is the international factory default setting.<br>• The height can be increased in 0.01-inch or in 1-mm increments. |
| **Feed Direction**<br>    Short Edge<br>    Long Edge | Specifies the feed direction<br>**Notes:**<br>• Short Edge is the factory default setting.<br>• Long Edge appears only if the longest edge is shorter than the maximum width supported in the tray. |

# Bin Setup menu

| Menu item | Description |
|---|---|
| **Output Bin**<br>    Standard Bin<br>    Bin [x] | Specifies the default exit bin<br>**Note:** Standard Bin is the factory default setting. |
| **Configure Bins**<br>    Mailbox<br>    Link<br>    Mail Overflow<br>    Link Optional<br>    Type Assignment | Specifies configuration options for exit bins<br>**Notes:**<br><br>• Mailbox is the factory default setting. This setting treats each bin as a separate mailbox.<br>• Link configures all available bins as one large exit bin.<br>• Mail Overflow assigns an overflow bin when the mailbox bins become full.<br>• Link Optional links together all available exit bins except the standard bin and only appears when at least two optional bins are installed.<br>• Type Assignment assigns each paper type to an exit bin or linked bin set.<br>• Bins assigned the same name are automatically linked unless Link Optional is selected. |
| **Overflow Bin**<br>    Standard Bin<br>    Bin [x] | Specifies an alternate exit bin when a designated bin is full<br>**Note:** Standard Bin is the factory default setting. |
| **Assign Type/Bin**<br>    Plain Paper Bin<br>    Card Stock Bin<br>    Transparency Bin<br>    Recycled Bin<br>    Glossy Bin<br>    Heavy Glossy Bin<br>    Labels Bin<br>    Vinyl Labels Bin<br>    Bond Bin<br>    Envelope Bin<br>    Rough Envelope Bin<br>    Letterhead Bin<br>    Preprinted Bin<br>    Colored Bin<br>    Light Paper Bin<br>    Heavy Paper Bin<br>    Rough/Cotton Bin<br>    Custom [x] Bin | Selects an exit bin for each supported paper type<br>Select from the following options for each type:<br>    Disabled<br>    Standard Bin<br>    Bin [x]<br>**Note:** Disabled is the factory default setting. |

# Reports menu

## Reports menu

| Menu item | Description |
|---|---|
| Menu Settings Page | Prints a report containing information about the paper loaded into trays, installed memory, total page count, alarms, timeouts, printer control panel language, TCP/IP address, status of supplies, status of the network connection, and other information |
| Device Statistics | Prints a report containing printer statistics such as supply information and details about printed pages |
| Network Setup Page | Prints a report containing information about the network printer settings, such as the TCP/IP address information<br><br>**Note:** This menu item appears only in network printers or in printers connected to print servers. |
| Network [x] Setup Page | Prints a report containing information about the network printer settings, such as the TCP/IP address information<br><br>**Notes:**<br><br>• This selection is available when more than one network option is installed.<br>• This menu item appears only in network printers or in printers connected to print servers. |
| Profiles List | Prints a list of profiles stored in the printer |
| Print Fonts<br>  PCL Fonts<br>  PostScript Fonts | Prints a report of all the fonts available for the printer language currently set in the printer<br><br>**Note:** A separate list is available for PCL and PostScript emulations. |
| Print Directory | Prints a list of all the resources stored on an optional flash memory card or printer hard disk<br><br>**Notes:**<br><br>• Job Buffer Size must be set to 100%.<br>• Make sure the optional flash memory or printer hard disk is installed correctly and working properly. |
| Asset Report | Prints a report containing printer asset information, such as serial number and model name<br><br>**Note:** The report contains text and UPC barcodes that can be scanned into an asset database. |

# Network/Ports menu

## Active NIC menu

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

## Standard Network or Network [x] menus

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

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

| Menu item | Description |
|-----------|-------------|
| **Network Buffer**<br>Auto<br>3KB to [maximum size allowed] | Sets the size of the network input buffer<br>**Notes:**<br><br>• Auto is the factory default setting.<br>• The value can be changed in 1-KB increments.<br>• 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.<br>• To increase the maximum size range for the Network Buffer, disable or reduce the size of the parallel, serial, and USB buffers.<br>• Changing this setting from the printer control panel and then exiting the menus causes the printer to restart. The menu selection is then updated. |
| **Job Buffering**<br>Off<br>On<br>Auto | Temporarily stores print jobs on the printer hard disk before printing. This menu only appears if a formatted disk is installed.<br>**Notes:**<br><br>• Off is the factory default setting.<br>• On buffers print jobs on the printer hard disk.<br>• Auto buffers print jobs only if the printer is busy processing data from another input port.<br>• Changing this setting from the printer control panel and then exiting the menus causes the printer to restart. The menu selection is then updated. |
| **Mac Binary PS**<br>Auto<br>On<br>Off | Sets the printer to process Macintosh binary PostScript print jobs<br>**Notes:**<br><br>• Auto is the factory default setting.<br>• Off filters print jobs using the standard protocol.<br>• On processes raw binary PostScript print jobs. |
| **Standard Network Setup**<br>Reports<br>Network Card<br>TCP/IP<br>IPv6<br>Wireless<br>AppleTalk<br><br>**Network [x] Setup**<br>Reports<br>Network Card<br>TCP/IP<br>IPv6<br>Wireless<br>AppleTalk | Displays and sets the printer network settings.<br>**Note:** The Wireless menu appears only when the printer is connected to a wireless network. |

# Network Reports menu

This menu is available from the Network/Ports menu:

**Network/Ports > Standard Network** or **Network [x] > Standard Network Setup** or **Network [x] Setup > Reports** or **Network Reports**

| Menu item | Description |
|---|---|
| **Print Setup Page** | Prints a report containing information about the network printer settings, such as the TCP/IP address |

# Network Card menu

This menu is available from the Network/Ports menu:

**Network/Ports** > **Standard Network** or **Network [x]** > **Standard Network Setup** or **Network [x] Setup** > **Network Card**

| Menu item | Description |
|---|---|
| **View Card Status**<br>Connected<br>Disconnected | Lets you view the connection status of the Network Card |
| **View Card Speed** | Lets you view the speed of a currently active network card |
| **Network Address**<br>UAA<br>LAA | Lets you view the network addresses |
| **Job Timeout**<br>0<br>10–225 | Sets the amount of time in seconds before a network print job is canceled<br>**Note:** 90 seconds is the factory default setting. |
| **Banner Page**<br>Off<br>On | Allows the printer to print a banner page<br>**Note:** Off is the factory default setting. |

# TCP/IP menu

This menu is available from the Network/Ports menu:

**Network/Ports** > **Standard Network** or **Network [x]** > **Standard Network Setup** or **Network [x] Setup** > **TCP/IP**

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

| Menu item | Description |
|---|---|
| **Activate**<br>On<br>Off | Activates TCP/IP<br>**Note:** On is the factory default setting. |
| **Set Hostname** | Lets you set the current TCP/IP hostname<br>**Note:** This can be changed only from the Embedded Web Server. |
| **IP Address** | Lets you view or change the current TCP/IP address<br>**Note:** Manually setting the IP address sets the Enable DHCP and Enable Auto IP settings to Off. It also sets Enable BOOTP and Enable RARP to Off on systems that support BOOTP and RARP. |

| Menu item | Description |
|---|---|
| Netmask | Lets you view or change the current TCP/IP netmask |
| Gateway | Lets you view or change the current TCP/IP gateway |
| Enable DHCP<br>On<br>Off | Specifies the DHCP address and parameter assignment setting<br>**Note:** On is the factory default setting. |
| Enable RARP<br>On<br>Off | Specifies the RARP address assignment setting<br>**Note:** On is the factory default setting. |
| Enable BOOTP<br>On<br>Off | Specifies the BOOTP address assignment setting<br>**Note:** On is the factory default setting. |
| Enable AutoIP<br>Yes<br>No | Specifies the Zero Configuration Networking setting<br>**Note:** Yes is the factory default setting. |
| Enable FTP/TFTP<br>Yes<br>No | Enables the built-in FTP server, which allows you to send files to the printer using File Transfer Protocol.<br>**Note:** Yes is the factory default setting. |
| Enable HTTP Server<br>Yes<br>No | Enables the built-in web server (Embedded Web Server). When enabled, the printer can be monitored and managed remotely using a web browser.<br>**Note:** Yes is the factory default setting. |
| WINS Server Address | Lets you view or change the current WINS server address |
| Enable DDNS<br>Yes<br>No | Lets you view or change the current DDNS setting<br>**Note:** Yes is the factory default setting. |
| Enable mDNS<br>Yes<br>No | Lets you view or change the current mDNS setting<br>**Note:** Yes is the factory default setting. |
| DNS Server Address | Lets you view or change the current DNS server address |
| Enable HTTPS<br>Yes<br>No | Lets you view or change the current HTTPS setting<br>**Note:** Yes is the factory default setting. |

## IPv6 menu

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

This menu is available from the Network/Ports menu:

**Network/Ports > Standard Network** or **Network [x] > Standard Network Setup** or **Network [x] Setup > IPv6**

| Menu item | Description |
|---|---|
| **Enable IPv6**<br>On<br>Off | Enables IPv6 in the printer<br>**Note:** On is the factory default setting. |
| **Auto Configuration**<br>On<br>Off | Specifies whether the network adapter accepts the automatic IPv6 address configuration entries provided by a router<br>**Note:** On is the factory default setting. |
| **Set Hostname** | Lets you set the printer host name |
| **View Address** | Shows the printer IPv6 address<br>**Note:** The IPv6 address can be changed only from the Embedded Web Server. |
| **View Router Address** | Shows the router address<br>**Note:** The router address can be changed only from the Embedded Web Server. |
| **Enable DHCPv6**<br>On<br>Off | Enables DHCPv6 in the printer<br>**Note:** On is the factory default setting. |

## Wireless menu

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

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

The Wireless menu is available from the Network/Ports menu:

**Network/Ports > Standard Network** or **Network [x] > Standard Network Setup** or **Network [x] Setup > Wireless**

| Menu item | Description |
|---|---|
| **WPS PBC Mode** | Lets you connect the printer to a wireless network by pressing buttons on both the printer and the access point (wireless router) within a given period of time |
| **WPS PIN Mode** | Lets you connect the printer to a wireless network by using a PIN on the printer and entering it into the wireless settings of the access point |
| **WPS Auto Detect**<br>Disable<br>Enable | Automatically detects the connection method that an access point with WPS uses— WPS Push Button Configuration (PBC) or WPS Personal Identification Number (PIN)<br>**Note:** Disable is the factory default setting. |
| **Network Mode**<br>Ad hoc<br>Infrastructure | Specifies the network mode<br>**Notes:**<br>• Ad hoc is the factory default setting. This configures wireless connection directly between the printer and a computer.<br>• Infrastructure lets the printer access a network using an access point. |

| Menu item | Description |
|---|---|
| **Compatibility**<br>802.11b/g/n<br>802.11n<br>802.11b/g | Specifies the wireless standard for the wireless network<br>**Note:** The 802.11b/g/n is the factory default setting. |
| **Choose Network**<br>[list of available networks] | Lets you select an available network for the printer to use |
| **View Signal Quality** | Lets you view the quality of the wireless connection |
| **View Security Mode** | Lets you view the encryption method that a wireless network uses |

**Note:** *Wi-Fi Protected Setup (WPS)* is a simple and secure configuration that allows you to establish a wireless network and enable network security without requiring prior knowledge of Wi-Fi technology. It is no longer necessary to configure the network name (SSID) and WEP key or WPA passphrase for network devices.

# AppleTalk menu

This menu is available from the Network/Ports menu:

**Network/Ports** > **Standard Network** or **Network [x]** > **Standard Network Setup** or **Network [x] Setup** > **AppleTalk**

| Menu item | Description |
|---|---|
| **Activate**<br>Yes<br>No | Activates AppleTalk support<br>**Note:** Yes is the factory default setting. |
| **View Name** | Shows the assigned AppleTalk name<br>**Note:** The name can be changed only from the Embedded Web Server. |
| **View Address** | Shows the assigned AppleTalk address<br>**Note:** The address can be changed only from the Embedded Web Server. |
| **Set Zone**<br>[default]<br>[list of zones available on the network] | Provides a list of AppleTalk zones available on the network<br>**Note:** When "default" is selected, the printer uses the AppleTalk zone that the router identifies as the default zone for the network. If no default zone exists, then the zone marked with an * is the default setting. |

# Standard USB menu

| Menu item | Description |
|---|---|
| **PCL SmartSwitch**<br>On<br>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<br>**Notes:**<br>• On is the factory default setting.<br>• When set to Off, the printer does not examine incoming data. The printer uses PostScript emulation if the PS SmartSwitch is set to On. It uses the default printer language specified in the Setup menu if the PS SmartSwitch is set to Off. |

| Menu item | Description |
|---|---|
| **PS SmartSwitch**<br>On<br>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<br><br>**Notes:**<br><br>• On is the factory default setting.<br>• When set to Off, the printer does not examine incoming data. The printer uses PCL emulation if the PCL SmartSwitch is set to On. It uses the default printer language specified in the Setup menu if the PCL SmartSwitch is set to Off. |
| **NPA Mode**<br>Auto<br>On<br>Off | Sets the printer to perform the special processing required for bidirectional communication following the conventions defined by the NPA protocol<br><br>**Notes:**<br><br>• Auto is the factory default setting. Auto sets the printer to examine data, determine the format, and then process it appropriately.<br>• Changing this setting from the printer control panel and then exiting the menus causes the printer to restart. The menu selection is then updated. |
| **USB Buffer**<br>Auto<br>3KB to [maximum size allowed]<br>Disabled | Sets the size of the USB input buffer<br><br>**Notes:**<br><br>• Auto is the factory default setting.<br>• Disabled turns off job buffering. Any jobs already buffered on the printer hard disk are printed before normal processing resumes.<br>• The USB buffer size value can be changed in 1-KB increments.<br>• 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.<br>• To increase the maximum size range for the USB Buffer, disable or reduce the size of the parallel, serial, and network buffers.<br>• Changing this setting from the printer control panel and then exiting the menus causes the printer to restart. The menu selection is then updated. |
| **Job Buffering**<br>Off<br>On<br>Auto | Temporarily stores print jobs on the printer hard disk before printing<br><br>**Notes:**<br><br>• Off is the factory default setting.<br>• On buffers jobs on the printer hard disk.<br>• Auto buffers print jobs only if the printer is busy processing data from another input port.<br>• Changing this setting from the printer control panel and then exiting the menus causes the printer to restart. The menu selection is then updated. |
| **Mac Binary PS**<br>Auto<br>On<br>Off | Sets the printer to process Macintosh binary PostScript print jobs<br><br>**Notes:**<br><br>• Auto is the factory default setting.<br>• On processes raw binary PostScript print jobs.<br>• Off filters print jobs using the standard protocol. |

Understanding printer menus

| Menu item | Description |
|-----------|-------------|
| **ENA Address**<br>YYY.YYY.YYY.YYY | Sets the network address information for an external print server<br>**Note:** This menu item is available only if the printer is attached to an external print server through the USB port. |
| **ENA Netmask**<br>YYY.YYY.YYY.YYY | Sets the netmask information for an external print server<br>**Note:** This menu item is available only if the printer is attached to an external print server through the USB port. |
| **ENA Gateway**<br>YYY.YYY.YYY.YYY | Sets the gateway information for an external print server<br>**Note:** This menu item is available only if the printer is attached to an external print server through the USB port. |

# Parallel [x] menu

| Menu item | Description |
|-----------|-------------|
| **PCL SmartSwitch**<br>On<br>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<br>**Notes:**<br><br>• On is the factory default setting.<br>• When set to Off, the printer does not examine incoming data. 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**<br>On<br>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<br>**Notes:**<br><br>• On is the factory default setting.<br>• When set to Off, the printer does not examine incoming data. 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**<br>Auto<br>On<br>Off | Sets the printer to perform the special processing required for bidirectional communication following the conventions defined by the NPA protocol<br>**Notes:**<br><br>• Auto is the factory default setting.<br>• Changing this setting from the printer control panel and then exiting the menus causes the printer to restart. The menu selection is then updated. |

| Menu item | Description |
|---|---|
| **Parallel Buffer**<br>Auto<br>3KB to [maximum size allowed]<br>Disabled | Sets the size of the parallel input buffer<br><br>**Notes:**<br><br>• Auto is the factory default setting.<br>• Disabled turns off job buffering. Any print jobs already buffered on the printer hard disk are printed before normal processing resumes.<br>• The parallel buffer size setting can be changed in 1-KB increments.<br>• 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.<br>• To increase the maximum size range for the Parallel Buffer, disable or reduce the size of the USB, serial, and network buffers.<br>• Changing this setting from the printer control panel and then exiting the menus causes the printer to restart. The menu selection is then updated. |
| **Job Buffering**<br>Off<br>On<br>Auto | Temporarily stores print jobs on the printer hard disk before printing<br><br>**Notes:**<br><br>• Off is the factory default setting.<br>• On buffers print jobs on the printer hard disk.<br>• Auto buffers print jobs only if the printer is busy processing data from another input port.<br>• Changing this setting from the printer control panel and then exiting the menus causes the printer to restart. The menu selection is then updated. |
| **Advanced Status**<br>On<br>Off | Enables bidirectional communication through the parallel port<br><br>**Notes:**<br><br>• On is the factory default setting.<br>• Off disables parallel port negotiation. |
| **Protocol**<br>Fastbytes<br>Standard | Specifies the parallel port protocol<br><br>**Notes:**<br><br>• Fastbytes is the factory default setting. It provides compatibility with most existing parallel ports and is the recommended setting.<br>• Standard tries to resolve parallel port communication problems. |
| **Honor Init**<br>Off<br>On | Determines if the printer honors printer hardware initialization requests from the computer<br><br>**Notes:**<br><br>• Off is the factory default setting.<br>• The computer requests initialization by activating the Init signal from the parallel port. Many personal computers activate the Init signal each time the computer is turned on. |
| **Parallel Mode 2**<br>On<br>Off | Determines if the parallel port data is sampled on the leading or trailing edge of a strobe<br><br>**Note:** On is the factory default setting. |

| Menu item | Description |
|---|---|
| **Mac Binary PS**<br>Auto<br>On<br>Off | Sets the printer to process Macintosh binary PostScript print jobs<br><br>**Notes:**<br><br>• Auto is the factory default setting.<br>• Off filters print jobs using the standard protocol.<br>• On processes raw binary PostScript print jobs. |
| **ENA Address**<br>YYY·YYY·YYY·YYY | Sets the network address information for an external print server<br><br>**Note:** This menu item is available only if the printer is attached to an external print server through the USB port. |
| **ENA Netmask**<br>YYY·YYY·YYY·YYY | Sets the netmask information for an external print server<br><br>**Note:** This menu item is available only if the printer is attached to an external print server through the USB port. |
| **ENA gateway**<br>YYY·YYY·YYY·YYY | Sets the gateway information for an external print server<br><br>**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**<br>On<br>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<br><br>**Notes:**<br><br>• On is the factory default setting.<br>• When set to Off, the printer does not examine incoming data. 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**<br>On<br>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<br><br>**Notes:**<br><br>• On is the factory default setting.<br>• When set to Off, the printer does not examine incoming data. 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**<br>Auto<br>On<br>Off | Sets the printer to perform the special processing required for bidirectional communication following the conventions defined by the NPA protocol<br>**Notes:**<br>• Auto is the factory default setting. Auto sets the printer to examine data, determine the format, and then processes it appropriately.<br>• When set to On, the printer performs NPA processing. If the data is not in NPA format, it is rejected as bad data.<br>• When set to Off, the printer does not perform NPA processing.<br>• Changing this setting from the printer control panel and then exiting the menus causes the printer to restart. The menu selection is then updated. |
| **Serial Buffer**<br>Auto<br>3KB to [maximum size allowed]<br>Disabled | Sets the size of the serial input buffer<br>**Notes:**<br>• Auto is the factory default setting.<br>• Disabled turns off job buffering. Any jobs already buffered on the disk are printed before normal processing is resumed.<br>• The serial buffer size setting can be changed in 1-KB increments.<br>• 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.<br>• To increase the maximum size range for the Serial Buffer, disable or reduce the size of the parallel, serial, and network buffers.<br>• Changing this setting from the printer control panel and then exiting the menus causes the printer to restart. The menu selection is then updated. |
| **Job Buffering**<br>Off<br>On<br>Auto | Temporarily stores print jobs on the printer hard disk before printing<br>**Notes:**<br>• Off is the factory default setting. The printer does not buffer print jobs on the printer hard disk.<br>• On buffers print jobs on the printer hard disk.<br>• Auto buffers print jobs only if the printer is busy processing data from another input port.<br>• Changing this setting from the printer control panel and then exiting the menus causes the printer to restart. The menu selection is then updated. |
| **Protocol**<br>DTR<br>DTR/DSR<br>XON/XOFF<br>XON/XOFF/DTR<br>XONXOFF/DTRDSR | Selects the hardware and software handshaking settings for the serial port<br>**Notes:**<br>• DTR is the factory default setting.<br>• DTR/DSR is a hardware handshaking setting.<br>• XON/XOFF is a software handshaking setting.<br>• XON/XOFF/DTR and XON/XOFF/DTR/DSR are combined hardware and software handshaking settings. |

| Menu item | Description |
|---|---|
| **Robust XON**<br>Off<br>On | Determines whether the printer communicates availability to the computer<br>**Notes:**<br><br>• Off is the factory default setting.<br>• This menu item applies only to the serial port if Serial Protocol is set to XON/XOFF. |
| **Baud**<br>9600<br>19200<br>38400<br>57600<br>115200<br>138200<br>172800<br>230400<br>345600<br>1200<br>2400<br>4800 | Specifies the rate at which data can be received through the serial port<br>**Notes:**<br><br>• 9600 is the factory default setting.<br>• 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**<br>8<br>7 | Specifies the number of data bits sent in each transmission frame<br>**Note:** 8 is the factory default setting. |
| **Parity**<br>None<br>Ignore<br>Even<br>Odd | Sets the parity for serial input and output data frames<br>**Note:** None is the factory default setting. |
| **Honor DSR**<br>Off<br>On | Determines whether the printer uses the DSR Signal<br>**Notes:**<br><br>• Off is the factory default setting.<br>• DSR is a handshaking signal used by most serial cables. 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. Set this to On to prevent stray characters from printing. |

## SMTP Setup menu

| Menu item | Description |
|---|---|
| **Primary SMTP Gateway** | Specifies SMTP server gateway and port information<br>**Note:** 25 is the default SMTP gateway port. |
| **Primary SMTP Gateway Port** | |
| **Secondary SMTP Gateway** | |
| **Secondary SMTP Gateway Port** | |

| Menu item | Description |
|---|---|
| **SMTP Timeout**<br>5–30 | Specifies the amount of time in seconds before the server stops trying to send an e-mail<br><br>**Note:** 30 seconds is the factory default setting. |
| **Reply Address** | Specifies a reply address of up to 128 characters in the e-mail sent by the printer |
| **Use SSL**<br>Disabled<br>Negotiate<br>Required | Sets the printer to use SSL for increased security when connecting to the SMTP server<br><br>**Notes:**<br><br>• Disabled is the factory default setting.<br>• When the Negotiate setting is used, the SMTP server determines if SSL will be used. |
| **SMTP Server Authentication**<br>No authentication required<br>Login/Plain<br>CRAM-MD5<br>Digest-MD5<br>NTLM<br>Kerberos 5 | Specifies the type of user authentication required for scan to e-mail privileges<br><br>**Note:** "No authentication required" is the factory default setting. |
| **Device-Initiated E-mail**<br>None<br>Use Device SMTP Credentials | Specifies what credentials will be used when communicating to the SMTP server. Some SMTP servers require credentials to send an e-mail.<br><br>**Notes:** |
| **User-Initiated E-mail**<br>None<br>Use Device SMTP Credentials<br>Use Session User ID & Password<br>Use Session E-mail address & Password<br>Prompt User | • None is the factory default setting for Device and User-Initiated E-mail.<br>• Device Userid and Device Password are used to log in to the SMTP server when Use Device SMTP Credentials is selected. |
| **Device Userid** | |
| **Device Password** | |
| **Kerberos 5 Realm** | |
| **NTLM Domain** | |

# Security menu

## Miscellaneous Security Settings menu

| Menu item | Description |
|---|---|
| **Login Restriction**<br>Login failures<br>    1–10<br>Failure time frame<br>    1–60<br>Lockout time<br>    1–60<br>Panel Login Timeout<br>    1–900<br>Remote Login Timeout<br>    1–120 | Limits the number and time frames of failed login attempts from the printer control panel before *all* users are locked out<br><br>**Notes:**<br><br>• "Login failures" specifies the number of failed login attempts before users are locked out. 3 attempts is the factory default setting.<br>• "Failure time frame" specifies the time frame during which failed login attempts can be made before users are locked out. 5 minutes is the factory default setting.<br>• "Lockout time" specifies how long users are locked out after exceeding the login failures limit. 5 minutes is the factory default setting.<br>• Panel Login Timeout specifies how long the printer remains idle on the home screen before automatically logging the user off. 30 seconds is the factory default setting.<br>• Remote Login Timeout specifies how long a remote interface (for example, a Web page) can remain idle before automatically logging the user off. 10 minutes is the factory default setting. |

## Confidential Print menu

| Menu item | Description |
|---|---|
| **Max Invalid PIN**<br>Off<br>2–10 | Limits the number of times an invalid PIN can be entered<br><br>**Notes:**<br><br>• This menu appears only if a formatted, non-defective printer hard disk is installed.<br>• Once the limit is reached, the print job for that user name and that PIN are deleted. |
| **Confidential Job Expiration**<br>Off<br>1 hour<br>4 hours<br>24 hours<br>1 week | Limits the amount of time a confidential print job stays in the printer before it is deleted<br><br>**Notes:**<br><br>• If the Job Expiration setting is changed while confidential print jobs reside on the printer RAM or printer hard disk, then the expiration time for those print jobs does not change to the new default value.<br>• If the printer is turned off, then all confidential jobs held in printer RAM are deleted. |
| **Repeat Job Expiration**<br>Off<br>1 hour<br>4 hours<br>24 hours<br>1 week | Sets a time limit on how long the printer stores print jobs |
| **Note:** Off is the factory default setting. | |

| Menu item | Description |
| --- | --- |
| **Verify Job Expiration**<br>Off<br>1 hour<br>4 hours<br>24 hours<br>1 week | Sets a time limit on how long the printer stores print jobs needing verification |
| **Reserve Job Expiration**<br>Off<br>1 hour<br>4 hours<br>24 hours<br>1 week | Sets a time limit on how long the printer stores print jobs for printing at a later time |
| **Note:** Off is the factory default setting. | |

## Disk Wiping menu

Disk Wiping erases *only* print job data on the printer hard disk that *are not* currently in use by the file system. All permanent data on the printer hard disk are preserved, such as downloaded fonts, macros, and held jobs.

**Note:** This menu appears only if a formatted, non-defective printer hard disk is installed.

| Menu item | Description |
| --- | --- |
| **Wiping Mode**<br>Auto<br>Manual<br>Off | Disk Wiping erases *only* print job data that *is not* currently in use by the file system from the printer hard disk. All permanent data on the printer hard disk is preserved, such as downloaded fonts, macros, and held jobs.<br><br>**Notes:**<br><br>• Auto is the factory default setting.<br>• Due to the large amount of resources required for Automatic Wiping, activating this option may decrease printer performance, especially if the printer requires hard disk space faster than it can be wiped and returned to service. |
| **Manual Wiping**<br>Do not start now<br>Start now | Manual Wiping overwrites all disk space that has been used to hold data from a print job that has been processed (printed). This type of wipe *does not* erase any information related to an unprocessed print job.<br><br>**Notes:**<br><br>• "Do not start now" is the factory default setting.<br>• If the Disk Wiping access control is activated, then a user must successfully authenticate and have the required authorization in order to initiate the disk wipe. |

| Menu item | Description |
|---|---|
| **Automatic Method**<br><br>Single pass<br>Multiple pass | Automatic wiping marks all disk space used by a previous print job and does not permit the file system to reuse this space until it has been cleared.<br><br>Only Automatic wiping enables users to activate disk wiping without having to turn the printer off for an extended amount of time.<br><br>**Notes:**<br><br>• "Single pass" is the factory default setting.<br>• Highly confidential information should be wiped using *only* the Multiple pass method. |
| **Manual Method**<br><br>Single pass<br>Multiple pass | Both manual and scheduled wiping allow the file system to reuse marked disk space without having to wipe it first.<br><br>**Notes:**<br><br>• "Single pass" is the factory default setting.<br>• Highly confidential information should be wiped using *only* the Multiple pass method. |
| **Scheduled Method**<br><br>Single pass<br>Multiple pass | Both manual and scheduled wiping allow the file system to reuse marked disk space without having to wipe it first.<br><br>**Notes:**<br><br>• "Single pass" is the factory default setting.<br>• Highly confidential information should be wiped using *only* the Multiple Pass method .<br>• Scheduled wipes are initiated *without* displaying a user warning or confirmation message. |

## Security Audit Log menu

| Menu item | Description |
|---|---|
| **Export Log** | Enables an authorized user to export the audit log<br><br>**Notes:**<br><br>• To export the audit log from the printer control panel, a flash drive must be attached to the printer.<br>• From the Embedded Web Server, the audit log can be downloaded to a computer. |
| **Delete Log**<br><br>Yes<br>No | Specifies whether audit logs are deleted<br><br>**Note:** "Yes" is the factory default setting. |

| Menu item | Description |
|---|---|
| **Configure Log**<br>  Enable Audit<br>    No<br>    Yes<br>  Enable Remote Syslog<br>    No<br>    Yes<br>  Remote Syslog Facility<br>    0–23<br>  Severity of events to log<br>    0–7 | Specifies whether and how audit logs are created<br><br>**Notes:**<br><br>• Enable Audit determines if events are recorded in the secure audit log and remote syslog. No is the factory default setting.<br>• Enable Remote Syslog determines if logs are sent to a remote server. No is the factory default setting.<br>• Remote Syslog Facility determines the value used to send logs to the remote syslog server. 4 is the factory default setting.<br>• With the security audit log activated, the severity value of each event is recorded. 4 is the factory default setting. |

## Set Date and Time menu

| Menu item | Description |
|---|---|
| **Current Date and Time** | Shows the current date and time settings for the printer |
| **Manually Set Date and Time**<br>  [input date/time] | **Notes:**<br><br>• Date and Time is set in YYYY-MM-DD HH:MM format.<br>• Manually setting the date and time sets Enable NTP to Off. |
| **Time Zone**<br>  [list of time zones] | **Note:** GMT is the factory default setting. |
| **Automatically observe DST**<br>  On<br>  Off | **Note:** On is the factory default setting. This uses the applicable Daylight Saving Time associated with the Time Zone setting. |
| **Enable NTP**<br>  On<br>  Off | Enables Network Time Protocol, which synchronizes the clocks of devices on a network<br><br>**Notes:**<br><br>• On is the factory default setting.<br>• The setting is turned off if you manually set the date and time. |

# Settings menu

## General Settings menu

| Menu item | Description |
|---|---|
| **Display Language**<br>English<br>Francais<br>Deutsch<br>Italiano<br>Espanol<br>Greek<br>Dansk<br>Norsk<br>Nederlands<br>Svenska<br>Portuguese<br>Suomi<br>Russian<br>Polski<br>Magyar<br>Turkce<br>Cesky<br>Simplified Chinese<br>Traditional Chinese<br>Korean<br>Japanese | Sets the language of the text appearing on the display<br><br>**Note:** Some languages may not be available for all printers. |
| **Eco-Mode**<br>Off<br>Energy<br>Energy/Paper<br>Paper | Minimizes the use of energy, paper, or specialty media<br><br>**Notes:**<br><br>- Off is the factory default setting. Off resets the printer to its factory default settings.<br>- Energy minimizes the power used by the printer. Performance may be affected, but print quality is not.<br>- Energy/Paper minimizes the use of power, paper and specialty media.<br>- Paper minimizes the amount of paper and specialty media needed for a print job by duplexing each page. Performance may be affected, but print quality is not. |

| Menu item | Description |
|---|---|
| **Quiet Mode**<br>Off<br>On | Reduces the amount of noise produced by the printer<br><br>**Notes:**<br><br>• Off is the factory default setting. This setting supports the performance specifications of your printer.<br>• On configures the printer to produce as little noise as possible.<br>• For optimal printing of color-rich documents, set Quiet Mode to Off.<br>• Selecting Photo from the driver may disable Quiet Mode. |
| **Run Initial setup**<br>Yes<br>No | Runs the setup wizard<br><br>**Notes:**<br><br>• Yes is the factory default setting.<br>• After completing the setup wizard, the default setting becomes No. |
| **Keyboard**<br>Keyboard Type<br>English<br>Francais<br>Francais Canadien<br>Deutsch<br>Italiano<br>Espanol<br>Greek<br>Dansk<br>Norsk<br>Nederlands<br>Svenska<br>Suomi<br>Portuguese<br>Russian<br>Polski<br>Swiss German<br>Swiss French<br>Korean<br>Magyar<br>Turkce<br>Cesky<br>Simplified Chinese<br>Traditional Chinese<br>Japanese<br>Custom Key 1 | Specifies the language for the printer control panel keyboard<br><br>**Notes:**<br><br>• Keyboard Type specifies the language for the printer control panel keyboard.<br>• Custom Key 1 allows the user to assign a value to a custom key setting. A maximum of 6 characters is allowed. |

| Menu item | Description |
|---|---|
| **Paper Sizes**<br>US<br>Metric | Specifies the default paper measurement<br><br>**Notes:**<br><br>• The initial setting is determined by your country or region selection in the initial setup wizard.<br>• Changing this also changes the default setting for each input source in the Paper Size/Type menu. |
| **Displayed Information**<br>Left side<br>Right side<br>Custom Text [x]<br>[x] Toner<br>Fuser<br>Transfer Module | Specifies what is displayed on the upper left and right corners of the home screen<br><br>For the Left side and Right side menus, select from the following options:<br>None<br>IP Address<br>Hostname<br>Contact Name<br>Location<br>Date/Time<br>mDNS/DDNS Service Name<br>Zero Configuration Name<br>Custom Text [x]<br>Model Name<br><br>For the [x] Toner, [x] Fuser, and Transfer Module menus, select from the following options:<br>When to display<br>    Do not display<br>    Display<br>Message to Display<br>    Default<br>    Alternate<br>Default<br>    [text entry]<br>Alternate<br>    [text entry]<br><br>**Notes:**<br><br>• IP Address is the factory default setting for Left side.<br>• Date/Time is the factory default setting for Right side.<br>• "Do not display" is the factory default setting for "When to display."<br>• Default is the factory default setting for Message to Display. |

| Menu item | Description |
|---|---|
| **Displayed Information**<br>    Waste Toner Bottle<br>    Paper Jam<br>    Load Paper<br>    Service Errors | Lets you customize the displayed information for Waste Toner Bottle, Paper Jam, Load Paper, and Service Errors<br>Choose from the following options:<br>    Display<br>        No<br>        Yes<br>    Message to Display<br>        Default<br>        Alternate<br>    Default<br>        [text entry]<br>    Alternate<br>        [text entry]<br><br>**Notes:**<br><br>• No is the factory default setting for Display.<br>• Default is the factory default setting for Message to Display. |
| **Home screen customization**<br>    Change Language<br>    Search Held Jobs<br>    Held Jobs<br>    USB Drive<br>    Profiles and Solutions<br>    Bookmarks<br>    Jobs by user<br>    Forms and Favorites<br>    Eco-Settings<br>    Showroom<br>    Change Background | Lets you add or remove icons and buttons that appear on the home screen<br>Available options for each button are:<br>    Display<br>    Do Not Display |
| **Date Format**<br>    [MM-DD-YYYY]<br>    [DD-MM-YYYY]<br>    [YYYY-MM-DD] | Specifies the format for the printer date |
| **Time Format**<br>    12 hour<br>    24 hour | Specifies the format for the printer time<br>**Note:** 12 hour is the factory default setting. |
| **Screen Brightness**<br>    20–100 | Specifies the brightness of the printer control panel screen<br>**Note:** 100 is the factory default setting. |

| Menu item | Description |
|---|---|
| **Output Lighting**<br>Normal/Standby Mode<br>    Off<br>    Dim<br>    Bright<br>Sleep Mode<br>    Off<br>    Dim<br>    Bright | Sets the amount of light from the optional exit bin<br>**Notes:**<br><br>• Dim is the factory default setting for Normal/Standby Mode if Eco-Mode is set to Energy or Energy/Paper.<br>• Bright is the factory default setting for Normal/Standby Mode if Eco-Mode is set to Off or Paper.<br>• Off is the factory default setting for Sleep Mode if Eco-Mode is set to Energy or Energy/Paper.<br>• Dim is the factory default setting for Sleep Mode if Eco-Mode is set to Off or Paper. |
| **Error Lighting**<br>On<br>Off | Determines if indicator lights will blink when the printer encounters errors.<br>**Note:** On is the factory default setting. |
| **Audio Feedback**<br>Button Feedback<br>    On<br>    Off<br>Volume<br>    1–10 | **Notes:**<br><br>• On is the factory default setting for Button Feedback.<br>• 5 is the factory default setting for Volume. |
| **Show Bookmarks**<br>Yes<br>No | Determines whether the Bookmarks icon is displayed<br>**Notes:**<br><br>• Yes is the factory default setting.<br>• The Bookmarks icon appears inside Held Jobs. If Show Bookmarks is set to No, then the Held Jobs icon is only displayed on the home screen if one or more held jobs exist on the printer. |
| **Web Page Refresh Rate**<br>30–300 | Specifies the number of seconds between Embedded Web Server refreshes<br>**Note:** 120 seconds is the factory default setting. |
| **Contact Name** | Specifies a contact name for the printer |
| **Location** | Specifies the location of the printer<br>**Note:** The location will be stored on the Embedded Web Server. |

| Menu item | Description |
|---|---|
| **Alarms**<br>    Alarm Control<br>    Cartridge Alarm<br>    Staple Alarm<br>    Hole Punch Alarm | Sets an alarm to sound when the printer requires user intervention<br><br>Available options for each alarm type are:<br>    Off<br>    Single<br>    Continuous<br><br>**Notes:**<br><br>• Single is the factory default setting for Alarm Control and Cartridge Alarm. Single sounds three quick beeps.<br>• Off is the factory default setting for Staple Alarm and Hole Punch Alarm. Off means no alarm will sound.<br>• Continuous repeats three beeps every 10 seconds. |
| **Timeouts**<br>    Standby Mode<br>        Disabled<br>        1–240 | Specifies the number of minutes of inactivity before the system enters a lower power state<br><br>**Note:** 15 minutes is the factory default setting. |
| **Timeouts**<br>    Sleep Mode<br>        Disabled<br>        1–240 | Specifies the number of minutes of inactivity before some systems begin entering a minimum power state<br><br>**Notes:**<br><br>• 30 minutes is the factory default setting.<br>• A lower setting conserves more energy, but may require longer warm-up times.<br>• Select the lowest setting if the printer shares an electrical circuit with room lighting.<br>• 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.<br>• Sleep mode does not interact with Standby mode. |
| **Timeouts**<br>    Screen Timeout<br>        15–300 | Sets the amount of time (in seconds) the printer waits before returning to a ready state<br><br>**Note:** 30 seconds is the factory default setting. |
| **Timeouts**<br>    Print Timeout<br>        Disabled<br>        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<br><br>**Notes:**<br><br>• 90 seconds is the factory default setting.<br>• 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.<br>• Print Timeout is available only when using PCL emulation. This setting has no effect on PostScript emulation print jobs. |

| Menu item | Description |
|---|---|
| **Timeouts**<br>Wait Timeout<br>Disabled<br>15–65535 | Sets the amount of time (in seconds) the printer waits for additional data before canceling a print job<br><br>**Notes:**<br><br>• 40 seconds is the factory default setting.<br>• Wait Timeout is available only when the printer is using PostScript emulation. This setting has no effect on PCL emulation print jobs. |
| **Timeouts**<br>Job Hold Timeout<br>5–255 | Sets the amount of time (in seconds) the printer waits for user intervention before it holds jobs that require unavailable resources and continues to process other jobs in the print queue<br><br>**Notes:**<br><br>• 30 seconds is the factory default setting.<br>• This menu appears only when a printer hard disk is installed. |
| **Print Recovery**<br>Auto Continue<br>Disabled<br>5–255 | Lets the printer automatically continue printing from certain offline situations when not resolved within the specified time period<br><br>**Note:** Disabled is the factory default setting. |
| **Print Recovery**<br>Jam Recovery<br>Auto<br>On<br>Off | Specifies whether the printer reprints jammed pages<br><br>**Notes:**<br><br>• 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.<br>• On sets the printer to always reprint jammed pages.<br>• Off sets the printer to never reprint jammed pages. |
| **Print Recovery**<br>Page Protect<br>Off<br>On | Lets the printer successfully print a page that may not have printed otherwise<br><br>**Notes:**<br><br>• Off is the factory default setting. Off prints a partial page when there is not enough memory to print the whole page.<br>• On sets the printer to process the whole page so the entire page prints. |

| Menu item | Description |
|---|---|
| **Press Sleep Button**<br>Sleep<br>Hibernate<br>Do Nothing | Determines how the printer, while in Idle state, reacts to a short press of the Sleep button<br><br>**Notes:**<br><br>• Sleep is the factory default setting.<br>• Sleep or Hibernate sets the printer to operate at a lower power configuration.<br>• If the printer is in Sleep Mode, then the touch screen appears off and the Sleep button turns amber in color.<br>• Touch anywhere on the touch screen or press a button on the printer control panel to exit Sleep Mode.<br>• If the printer is in Hibernate mode, then the touch screen is completely off and the Sleep button turns amber in color and is blinking.<br>• |
| **Press and Hold Sleep Button**<br>Do Nothing<br>Sleep<br>Hibernate | Determines how the printer, while in Idle state, reacts to a long press of the Sleep button<br><br>**Notes:**<br><br>• Do Nothing is the factory default setting.<br>• Sleep or Hibernate sets the printer to operate at a lower power configuration.<br>• If the printer is in Sleep Mode, then the touch screen appears off and the Sleep button turns amber in color.<br>• Press and hold the Sleep button for 3 seconds or longer to enter Hibernate mode.<br>• Touch anywhere on the touch screen or press a button on the printer control panel to exit Sleep Mode. |
| **Factory Defaults**<br>Do Not Restore<br>Restore Now | Returns the printer settings to the factory default settings<br><br>**Notes:**<br><br>• Do Not Restore is the factory default setting. Do Not Restore keeps the user-defined settings.<br>• Restore Now 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. |

## Flash Drive menu

| Menu item | Description |
|---|---|
| **Copies**<br>1–999 | Specifies a default number of copies for each print job<br>**Note:** 1 is the factory default setting. |

| Menu item | Description |
|---|---|
| **Paper Source**<br>Tray [x]<br>MP Feeder<br>Manual Paper<br>Manuel Envelope | Sets a default paper source for all print jobs<br>**Note:** Tray 1 (standard tray) is the factory default setting. |
| **Color**<br>Color<br>Black Only | Generates color outputs<br>**Note:** Color is the factory default setting. |
| **Collate**<br>On (1,2,1,2,1,2)<br>Off (1,1,1,2,2,2) | Stacks the pages of a print job in sequence when printing multiple copies<br>**Note:** On is the factory default setting. |
| **Sides (Duplex)**<br>1 sided<br>2 sided | Specifies whether prints are on one side or on both sides of the paper<br>**Note:** 1 sided is the factory default setting. |
| **Staple**<br>Off<br>On | Specifies whether prints are stapled<br>**Notes:**<br>• Off is the factory default setting.<br>• This menu appears only when a stapler is installed. |
| **Hole Punch**<br>Off<br>On | Specifies whether prints have punched holes<br>**Notes:**<br>• Off is the factory default setting.<br>• This menu appears only when a puncher is installed. |
| **Hole Punch Mode**<br>2 holes<br>3 holes<br>4 holes | Determines the type of punch finishing performed on a printed output<br>**Notes:**<br>• 3 holes is the US factory default setting. 4 holes is the international factory default setting.<br>• This menu appears only when a puncher is installed. |
| **Duplex Binding**<br>Long Edge<br>Short Edge | Defines the way duplex 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<br>**Notes:**<br>• Long Edge is the factory default setting. Long edge assumes binding along the long edge of the page (left edge for portrait and top edge for landscape).<br>• Short edge assumes binding along the short edge of the page (top edge for portrait and left edge for landscape). |
| **Paper Saver Orientation**<br>Auto<br>Landscape<br>Portrait | Specifies the orientation of a multiple-page document<br>**Note:** Auto is the factory default setting. The printer chooses between portrait and landscape. |

| Menu item | Description |
|---|---|
| **Paper Saver**<br>Off<br>2-Up<br>3-Up<br>4-Up<br>6-Up<br>9-Up<br>12-Up<br>16-Up | Specifies that multiple-page images be printed on one side of a paper<br><br>**Notes:**<br><br>• Off is the factory default setting.<br>• The number selected is the number of page images that will print per side. |
| **Paper Saver Border**<br>None<br>Solid | Prints a border on each page image when using Paper Saver Border<br><br>**Note:** None is the factory default setting. |
| **Paper Saver Ordering**<br>Horizontal<br>Reverse Horizontal<br>Reverse Vertical<br>Vertical | Specifies the positioning of multiple-page images when using Paper Saver Ordering<br><br>**Notes:**<br><br>• Horizontal is the factory default setting.<br>• Positioning depends on the number of page images and whether they are in portrait or landscape orientation. |
| **Separator Sheets**<br>Off<br>Between Copies<br>Between Jobs<br>Between Pages | Specifies whether blank separator sheets are inserted<br><br>**Notes:**<br><br>• Off is the factory default setting.<br>• 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, then a blank page is inserted between each set of printed pages, such as after all page 1's and after all page 2's.<br>• Between Jobs inserts a blank sheet between print jobs.<br>• 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 Sheet Source**<br>Tray [x]<br>Manual Feeder | Specifies the paper source for separator sheets<br><br>**Notes:**<br><br>• Tray 1 (standard tray) is the factory default setting.<br>• From the Paper menu, Configure MP must be set to Cassette in order for Manual Feeder to appear as a menu setting. |
| **Blank Pages**<br>Do Not Print<br>Print | Specifies whether blank pages are inserted in a print job<br><br>**Note:** Do Not Print is the factory default setting. |

# Setup menu

| Menu item | Description |
|---|---|
| **Printer Language**<br>PS Emulation<br>PCL Emulation | Sets the default printer language<br><br>**Notes:**<br><br>• PS Emulation is the factory default setting. PostScript emulation uses a PS interpreter for processing print jobs.<br>• PCL Emulation uses a PCL interpreter for processing print jobs.<br>• Setting a printer language default does not prevent a software program from sending print jobs that use another printer language. |
| **Job Waiting**<br>Off<br>On | Specifies if print jobs are removed from the print queue when they require unavailable printer options or custom settings. These print jobs are stored in a separate print queue, so other jobs print normally. When the missing information and/or options are obtained, the stored jobs print.<br><br>**Notes:**<br><br>• Off is the factory default setting.<br>• This menu item appears only if a non-read-only printer hard disk is installed. This requirement ensures that stored jobs are not deleted if the printer loses power. |
| **Print Area**<br>Normal<br>Fit to Page<br>Whole Page | Sets the logical and physical printable area<br><br>**Notes:**<br><br>• 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.<br>• Fit to Page fits the page content into the selected paper size.<br>• Whole Page allows the image to be moved into the non-printable area defined by the Normal setting, but the printer clips the image at the Normal setting boundary. This setting affects only pages printed using a PCL 5e interpreter and has no effect on pages printed using the PCL XL or PostScript interpreter. |
| **Black Only Mode**<br>Off<br>On | Sets the printer to print text and graphics using only the black print cartridge<br>**Note:** Off is the factory default setting. |

| Menu item | Description |
|---|---|
| **Download Target**<br>RAM<br>Flash<br>Disk | Sets the storage location for downloads<br>**Notes:**<br><br>• RAM is the factory default setting. Storing downloads in RAM is temporary.<br>• 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.<br>• This menu item appears only if a flash and/or disk option is installed. |
| **Resource Save**<br>Off<br>On | Specifies how the printer handles temporary downloads, such as fonts and macros stored in RAM, when the printer receives a print job that requires more memory than is available<br>**Notes:**<br><br>• Off is the factory default setting. Off sets the printer to retain downloads only until memory is needed. Downloads are deleted in order to process print jobs.<br>• On sets the printer to retain downloads during language changes and printer resets. If the printer runs out of memory, `38 Memory Full` appears, but downloads are not deleted. |
| **Print All Order**<br>Alphabetical<br>Oldest First<br>Newest First | Specifies the order in which held and confidential jobs are printed when Print All is selected<br>**Notes:**<br><br>• Alphabetical is the factory default setting.<br>• Print jobs always appear in alphabetical order on the printer control panel. |

# Job Accounting menu

**Note:** This menu item appears only if a formatted, non-defective printer hard disk is installed. The printer hard disk cannot be read/write- or write-protected.

| Menu item | Description |
|---|---|
| **Job Accounting Log**<br>Off<br>On | Determines if the printer creates a log of the print jobs it receives<br>**Note:** Off is the factory default setting. |
| **Job Accounting Utilities** | Lets you print and delete log files or export them to a flash drive |
| **Accounting Log Frequency**<br>Monthly<br>Weekly | Determines how often a log file is created<br>**Note:** Monthly is the factory default setting. |

| Menu item | Description |
|---|---|
| **Log Action at End of Frequency**<br>None<br>E-mail Current Log<br>E-mail & Delete Current Log<br>Post Current Log<br>Post & Delete Current Log | Determines how the printer responds when the frequency threshold expires<br>**Note:** None is the factory default setting. |
| **Disk Near Full Level**<br>1–99<br>Off | Specifies the maximum size of the log file before the printer executes the Disk Near Full Action<br>**Note:** 5MB is the factory default setting. |
| **Disk Near Full Action**<br>None<br>E-mail Current Log<br>E-mail & Delete Current Log<br>E-mail & Delete Oldest Log<br>Post Current Log<br>Post & Delete Current Log<br>Post & Delete Oldest Log<br>Delete Current Log<br>Delete Oldest Log<br>Delete All Logs<br>Delete All But Current | Determines how the printer responds when the printer hard disk is nearly full<br>**Notes:**<br><br>• None is the factory default setting.<br>• The value defined in Disk Near Full Level determines when this action is triggered. |
| **Disk Full Action**<br>None<br>E-mail & Delete Current Log<br>E-mail & Delete Oldest Log<br>Post & Delete Current Log<br>Post & Delete Oldest Log<br>Delete Current Log<br>Delete Oldest Log<br>Delete All Logs<br>Delete All But Current | Determines how the printer responds when disk usage reaches the maximum limit (100MB)<br>**Note:** None is the factory default setting. |
| **URL to Post Logs** | Determines where the printer posts job accounting logs |
| **E-mail Address to Send Logs** | Specifies the e-mail address to which the device sends job accounting logs |
| **Log File Prefix** | **Note:** The current host name defined in the TCP/IP menu is used as the default log file prefix. |

# Finishing menu

| Menu item | Description |
|---|---|
| **Sides (Duplex)**<br>1 sided<br>2 sided | Specifies whether duplex (2-sided) printing is set as the default for all print jobs<br>**Notes:**<br><br>• 1 sided is the factory default setting.<br>• You can set 2-sided printing from the software program. For Windows users, click **File** > **Print**, and then click **Properties**, **Preferences**, **Options**, or **Setup**. For Macintosh users, choose **File** > **Print**, and then adjust the settings from the print dialog and pop-up menus. |
| **Duplex Binding**<br>Long Edge<br>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<br>**Notes:**<br><br>• Long Edge is the factory default setting. Long edge assumes binding along the long edge of the page (left edge for portrait and top edge for landscape).<br>• Short edge assumes binding along the short edge of the page (top edge for portrait and left edge for landscape). |
| **Copies**<br>1–999 | Specifies the default number of copies for each print job<br>**Note:** 1 is the factory default setting. |
| **Blank Pages**<br>Do Not Print<br>Print | Specifies whether blank pages are inserted in a print job<br>**Note:** Do Not Print is the factory default setting. |
| **Collate**<br>Off (1,1,1,2,2,2)<br>On (1,2,1,2,1,2) | Stacks the pages of a print job in sequence when printing multiple copies<br>**Notes:**<br><br>• Off is the factory default setting.<br>• On stacks the print job in sequence. |
| **Separator Sheets**<br>Off<br>Between Copies<br>Between Jobs<br>Between Pages | Specifies whether blank separator sheets are inserted<br>**Notes:**<br><br>• Off is the factory default setting.<br>• Between Copies inserts a blank sheet between each copy of a print job if Collate is set to On. If Collate is set to Off, then a blank page is inserted between each set of printed pages, such as after all page 1's and after all page 2's.<br>• Between Jobs inserts a blank sheet between print jobs.<br>• Between Pages inserts a blank sheet between each page of a print job. This setting is useful when printing transparencies or when inserting blank pages in a document. |
| **Separator Source**<br>Tray [x]<br>Manual Feeder | Specifies the paper source for separator sheets<br>**Notes:**<br><br>• Tray 1 (standard tray) is the factory default setting.<br>• From the Paper menu, Configure MP must be set to Cassette for Manual Feeder to appear as a menu setting. |

| Menu item | Description |
|---|---|
| **Paper Saver**<br>Off<br>2-Up<br>3-Up<br>4-Up<br>6-Up<br>9-Up<br>12-Up<br>16-Up | Specifies that multiple-page images be printed on one side of a paper<br><br>**Notes:**<br><br>• Off is the factory default setting.<br>• The number selected is the number of page images that will print per side. |
| **Paper Saver Ordering**<br>Horizontal<br>Reverse Horizontal<br>Reverse Vertical<br>Vertical | Specifies the positioning of multiple-page images<br><br>**Notes:**<br><br>• Horizontal is the factory default setting.<br>• Positioning depends on the number of page images and whether they are in portrait or landscape orientation. |
| **Paper Saver Orientation**<br>Auto<br>Landscape<br>Portrait | Specifies the orientation of a multiple-page document<br><br>**Note:** Auto is the factory default setting. The printer chooses between portrait and landscape. |
| **Paper Saver Border**<br>None<br>Solid | Prints a border on each page image<br><br>**Note:** None is the factory default setting. |
| **Staple Job**<br>Off<br>On | Specifies whether prints are stapled<br><br>**Note:** This menu appears only when a stapler is installed. |
| **Hole Punch**<br>Off<br>On | Specifies whether prints have punched holes<br><br>**Note:** This menu appears only when a puncher is installed. |
| **Hole Punch Mode**<br>2 holes<br>3 holes<br>4 holes | Determines the type of punch finishing performed on a print<br><br>**Notes:**<br><br>• 3 holes is the US factory default setting. 4 holes is the international factory default setting.<br>• This menu appears only when a puncher is installed. |
| **Offset Pages**<br>None<br>Between Copies<br>Between Jobs | Offsets pages at certain instances<br><br>**Notes:**<br><br>• None is the factory default setting.<br>• Between Copies offsets each copy of a print job if Collate is set to On. If Collate is set to Off, then each set of printed pages are offset, such as all page 1's and all page 2's.<br>• Between Jobs sets the same offset position for the entire print job regardless of the number of copies printed.<br>• This menu appears only when a stapler is installed. |

# Quality menu

| Menu item | Description |
|---|---|
| **Print Mode**<br>Color<br>Black Only | Specifies whether images are printed in monochrome grayscale or in color<br><br>**Notes:**<br><br>• Color is the factory default setting.<br>• The printer driver is capable of overriding this setting. |
| **Color Correction**<br>Auto<br>Off<br>Manual | Adjusts the color output on the printed page<br><br>**Notes:**<br><br>• Auto is the factory default setting. Auto applies different color conversion tables to each object on the printed page.<br>• Manual allows customization of color tables using the settings available from the Manual Color menu.<br>• Due to the differences in additive and subtractive colors, certain colors that appear on computer screens are impossible to duplicate on a printed page. |
| **Print Resolution**<br>4800 CQ<br>1200 dpi | Specifies the printed output resolution<br><br>**Notes:**<br><br>• 4800 CQ is the factory default setting.<br>• 1200 dpi provides the highest resolution output, and increases gloss. |
| **Toner Darkness**<br>1–5 | Lightens or darkens the printed output<br><br>**Notes:**<br><br>• 4 is the factory default setting.<br>• Selecting a smaller number can help conserve toner.<br>• If Print Mode is set to Black Only, a setting of 5 increases toner density and darkness for all print jobs.<br>• If Print Mode is set to Color, a setting of 5 is the same as a setting of 4. |
| **Enhance Fine Lines**<br>Off<br>On | Enables a print mode preferable for files such as architectural drawings, maps, electrical circuit diagrams, and flow charts<br><br>**Notes:**<br><br>• Off is the factory default setting.<br>• You can set this option from the software program. For Windows users, click **File** > **Print**, and then click **Properties**, **Preferences**, **Options**, or **Setup**. For Macintosh users, choose **File** > **Print**, and then adjust the settings from the print dialog and pop-up menus.<br>• To set this option using the Embedded Web Server, type the network printer IP address in a browser window. |
| **Color Saver**<br>Off<br>On | Reduces the amount of toner used for graphics and images. The amount of toner used for text is not reduced.<br><br>**Notes:**<br><br>• Off is the factory default setting.<br>• On overrides Toner Darkness settings. |

| Menu item | Description |
|---|---|
| **RGB Brightness**<br>-6 to 6 | Adjusts brightness in color outputs<br><br>**Notes:**<br><br>• 0 is the factory default setting.<br>• This does not affect files where CMYK color specifications are used. |
| **RGB Contrast**<br>0–5 | Adjusts contrast in color outputs<br><br>**Notes:**<br><br>• 0 is the factory default setting.<br>• This does not affect files where CMYK color specifications are used. |
| **RGB Saturation**<br>0–5 | Adjusts saturation in color outputs<br><br>**Notes:**<br><br>• 0 is the factory default setting.<br>• This does not affect files where CMYK color specifications are used. |
| **Color Balance**<br>Cyan<br>　-5 to 5<br>Magenta<br>　-5 to 5<br>Yellow<br>　-5 to 5<br>Black<br>　-5 to 5<br>Reset Defaults | Adjusts color in printed output by increasing or decreasing the amount of toner used for each color<br><br>**Note:** 0 is the factory default setting. |
| **Color Samples**<br>sRGB Display<br>sRGB Vivid<br>Display—True Black<br>Vivid<br>Off—RGB<br>US CMYK<br>Euro CMYK<br>Vivid CMYK<br>Off—CMYK | Prints sample pages for each of the RGB and CMYK color conversion tables used in the printer<br><br>**Notes:**<br><br>• Selecting any setting prints the sample.<br>• 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.<br>• 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. |

| Menu item | Description |
|---|---|
| **Manual Color**<br>RGB Image<br>    sRGB Display<br>    Display—True Black<br>    sRGB Vivid<br>    Off<br>    Vivid<br>RGB Text<br>    sRGB Vivid<br>    Off<br>    Vivid<br>    sRGB Display<br>    Display—True Black<br>RGB Graphics<br>    sRGB Vivid<br>    Off<br>    Vivid<br>    sRGB Display<br>    Display—True Black | Customizes the RGB color conversions<br><br>**Notes:**<br><br>• 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.<br>• 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.<br>• Vivid applies a color conversion table that produces brighter, more saturated colors.<br>• Display—True Black applies a color conversion table that uses only black toner for neutral gray colors. |
| **Manual Color**<br>CMYK Image<br>    US CMYK<br>    Euro CMYK<br>    Vivid CMYK<br>    Off<br>CMYK Text<br>    US CMYK<br>    Euro CMYK<br>    Vivid CMYK<br>    Off<br>CMYK Graphics<br>    US CMYK<br>    Euro CMYK<br>    Vivid CMYK<br>    Off | Customizes the CMYK color conversions<br><br>**Notes:**<br><br>• 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.<br>• 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.<br>• Vivid CMYK increases color saturation for the US CMYK color conversion table. |
| **Spot Color Replacement** | Provides the capability to assign specific CMYK values to named spot colors |
| **Color Adjust** | Initiates a recalibration of color conversion tables and allows the printer to make adjustments for color variations in output<br><br>**Notes:**<br><br>• Calibrating starts when the menu is selected. **Calibrating** appears on the display until the process is finished.<br>• Color variations in output sometimes result from changeable conditions such as room temperature and humidity. Color adjustments are made on printer algorithms. Color alignment is also recalibrated in this process. |

# Utilities menu

| Menu item | Description |
|---|---|
| **Remove Held Jobs**<br>Confidential<br>Held<br>Not Restored<br>All | Removes confidential and held jobs from the printer hard disk<br><br>**Notes:**<br><br>• Selecting a setting affects only print jobs that are resident in the printer. Bookmarks, print jobs on flash drives, and other types of held jobs are not affected.<br>• Not Restored removes all Print and Hold jobs that are *not* restored from the printer hard disk or memory. |
| **Format Flash**<br>Yes<br>No | Formats the flash memory<br><br>**Warning—Potential Damage:** Do not turn off the printer while the flash memory is being formatted.<br><br>**Notes:**<br><br>• Yes deletes all data stored in flash memory.<br>• No cancels the format request.<br>• Flash memory refers to the memory added by installing a flash memory option card in the printer.<br>• A flash memory option card must be installed in the printer and operating properly for this menu item to be available.<br>• The flash memory option card must not be read/write- or write-protected. |
| **Delete Downloads on Disk**<br>Delete Now<br>Do Not Delete | Removes downloads from the printer hard disk, including all held jobs, buffered jobs, and parked jobs<br><br>**Notes:**<br><br>• Delete Now configures the printer control panel to return to the originating screen after the deletion process is completed.<br>• Do Not Delete sets the printer control panel to return to the main Utilities menu. |
| **Activate Hex Trace** | Assists in isolating the source of a print job problem<br><br>**Notes:**<br><br>• When activated, all data sent to the printer is printed in hexadecimal and character representation, and control codes are not executed.<br>• To exit or deactivate Hex Trace, turn the printer off or reset the printer. |
| **Coverage Estimator**<br>Off<br>On | Provides an estimate of the percentage coverage of toner on a page. The estimate is printed on a separate page at the end of each print job.<br>**Note:** Off is the factory default setting. |

# XPS menu

| Menu item | Description |
|---|---|
| **Print Error Pages**<br>Off<br>On | Prints a page containing information on errors, including XML markup errors<br>**Note:** Off is the factory default setting. |

# PDF menu

| Menu item | Description |
|---|---|
| **Scale to Fit**<br>No<br>Yes | Scales page content to fit the selected paper size<br>**Note:** No is the factory default setting. |
| **Annotations**<br>Do Not Print<br>Print | Prints annotations in a PDF<br>**Note:** Do Not Print is the factory default setting. |

# PostScript menu

| Menu item | Description |
|---|---|
| **Print PS Error**<br>Off<br>On | Prints a page containing the PostScript error<br>**Note:** Off is the factory default setting. |
| **Lock PS Startup Mode**<br>Off<br>On | Enables users to disable the SysStart file<br>**Note:** Off is the factory default setting. |
| **Font Priority**<br>Resident<br>Flash/Disk | Establishes the font search order<br>**Notes:**<br><br>• Resident is the factory default setting.<br>• This menu item is available only if a formatted flash memory option card or printer hard disk is installed and operating properly.<br>• Make sure the flash memory option or printer hard disk is not read/write-, write-, or password-protected.<br>• Job Buffer Size must not be set to 100%. |
| **Image Smoothing**<br>Off<br>On | Enhances the contrast and sharpness of low-resolution images and smooths their color transitions<br>**Notes:**<br><br>• Off is the factory default setting.<br>• Image Smoothing has no effect on images that are 300 dpi or higher in resolution. |

# PCL Emul menu

| Menu item | Description |
|---|---|
| **Font Source**<br>Resident<br>Disk<br>Download<br>Flash<br>All | Specifies the set of fonts used by the Font Name menu item<br><br>**Notes:**<br><br>• Resident is the factory default setting. It shows the factory default set of fonts downloaded in RAM.<br>• Flash and Disk settings show all fonts resident in that option. Make sure the flash option is properly formatted and is not read/write-, or password-protected.<br>• Download shows all the fonts downloaded in RAM.<br>• All shows all fonts available to any option. |
| **Font Name**<br>RO Courier | Identifies a specific font and where it is stored<br><br>**Note:** RO Courier is the factory default setting. The RO Courier format 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. |
| **Symbol Set**<br>10U PC-8<br>12U PC-850 | Specifies the symbol set for each font name<br><br>**Notes:**<br><br>• 10U PC-8 is the US factory default setting. 12U PC-850 is the international factory default setting.<br>• A symbol set is a set of alphabetical 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**<br>Point Size<br>　1.00–1008.00 | Changes the point size for scalable typographic fonts<br><br>**Notes:**<br><br>• 12 is the factory default setting.<br>• Point Size refers to the height of the characters in the font. One point equals approximately 1/72 of an inch.<br>• Point sizes can be increased or decreased in 0.25-point increments. |
| **PCL Emulation Settings**<br>Pitch<br>　0.08–100 | Specifies the font pitch for scalable monospaced fonts<br><br>**Notes:**<br><br>• 10 is the factory default setting.<br>• Pitch refers to the number of fixed-space characters per inch (cpi).<br>• Pitch can be increased or decreased in 0.01-cpi increments.<br>• For non-scalable monospaced fonts, the pitch appears on the display but cannot be changed. |
| **PCL Emulation Settings**<br>Orientation<br>　Portrait<br>　Landscape | Specifies the orientation of text and graphics on a page<br><br>**Notes:**<br><br>• Portrait is the factory default setting.<br>• Portrait prints text and graphics parallel to the short edge of the page.<br>• Landscape prints text and graphics parallel to the long edge of the page. |

| Menu item | Description |
|---|---|
| **PCL Emulation Settings**<br>Lines per Page<br>  1–255 | Specifies the number of lines that print on each page<br>**Notes:**<br>• 60 is the US factory default setting. 64 is the international default setting.<br>• 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**<br>A4 Width<br>  198 mm<br>  203 mm | Sets the printer to print on A4-size paper<br>**Notes:**<br>• 198 mm is the factory default setting.<br>• The 203-mm setting sets the width of the page to allow the printing of eighty 10-pitch characters. |
| **PCL Emulation Settings**<br>Auto CR after LF<br>  Off<br>  On | Specifies whether the printer automatically performs a carriage return (CR) after a line feed (LF) control command<br>**Note:** Off is the factory default setting. |
| **PCL Emulation Settings**<br>Auto LF after CR<br>  Off<br>  On | Specifies whether the printer automatically performs a line feed (LF) after a carriage return (CR) control command<br>**Note:** Off is the factory default setting. |
| **Tray Renumber**<br>Assign MP Feeder<br>  Off<br>  None<br>  0–199<br>Assign Tray [x]<br>  Off<br>  None<br>  0–199<br>Assign Manual Paper<br>  Off<br>  None<br>  0–199<br>Assign Manual Env<br>  Off<br>  None<br>  0–199 | Configures the printer to work with printer software or programs that use different source assignments for trays, drawers, and feeders<br>**Notes:**<br>• Off is the factory default setting.<br>• None ignores the Select Paper Feed command. This selection is displayed only when it is selected by the PCL 5e interpreter.<br>• 0–199 allows a custom setting to be assigned. |

| Menu item | Description |
|---|---|
| **Tray Renumber**<br>View Factory Defaults<br>    MPF Default = 8<br>    T1 Default = 1<br>    T2 Default = 4<br>    T3 Default = 5<br>    T4 Default = 20<br>    T5 Default = 21<br>    Env Default = 6<br>    MPaper Default = 2<br>    MEnv Default = 3 | Displays the factory default setting assigned to each tray, drawer, or feeder |
| **Tray Renumber**<br>Restore Defaults<br>    Yes<br>    No | Returns all tray, drawer, and feeder assignments to the factory default settings |

# HTML menu

| Menu Item | | Description |
|---|---|---|
| **Font Name** | Joanna MT | Sets the default font for HTML documents |
| Albertus MT | Letter Gothic | **Note:** The Times font is used in HTML documents that do not specify a font. |
| Antique Olive | Lubalin Graph | |
| Apple Chancery | Marigold | |
| Arial MT | MonaLisa Recut | |
| Avant Garde | Monaco | |
| Bodoni | New CenturySbk | |
| Bookman | New York | |
| Chicago | Optima | |
| Clarendon | Oxford | |
| Cooper Black | Palatino | |
| Copperplate | StempelGaramond | |
| Coronet | Taffy | |
| Courier | Times | |
| Eurostile | TimesNewRoman | |
| Garamond | Univers | |
| Geneva | Zapf Chancery | |
| Gill Sans | NewSansMTCS | |
| Goudy | NewSansMTCT | |
| Helvetica | New SansMTJA | |
| Hoefler Text | NewSansMTKO | |
| Intl CG Times | | |
| Intl Courier | | |
| Intl Univers | | |

| Menu item | Description |
|---|---|
| **Font Size**<br>1–255 pt | Sets the default font size for HTML documents<br><br>**Notes:**<br><br>• 12 pt is the factory default setting.<br>• Font size can be increased in 1-point increments. |
| **Scale**<br>1–400% | Scales the default font for HTML documents<br><br>**Notes:**<br><br>• 100% is the factory default setting.<br>• Scaling can be increased in 1% increments. |
| **Orientation**<br>Portrait<br>Landscape | Sets the page orientation for HTML documents<br>**Note:** Portrait is the factory default setting. |

| Menu item | Description |
|---|---|
| **Margin Size**<br>8–255 mm | Sets the page margin for HTML documents<br><br>**Notes:**<br><br>• 19 mm is the factory default setting.<br>• Margin size can be increased in 1-mm increments. |
| **Backgrounds**<br>Print<br>Do Not Print | Specifies whether to print backgrounds on HTML documents<br>**Note:** Print is the factory default setting. |

## Image menu

| Menu item | Description |
|---|---|
| **Auto Fit**<br>On<br>Off | Selects the optimal paper size, scaling, and orientation<br>**Note:** On is the factory default setting. It overrides scaling and orientation settings for some images. |
| **Invert**<br>Off<br>On | Inverts bi-tonal monochrome images<br><br>**Notes:**<br><br>• Off is the factory default setting.<br>• This setting does not apply to GIF or JPEG images. |
| **Scaling**<br>Best Fit<br>Anchor Center<br>Fit Height/Width<br>Fit Height<br>Fit Width<br>Anchor Top Left | Scales the image to fit the selected paper size<br><br>**Notes:**<br><br>• Best Fit is the factory default setting.<br>• When Auto Fit is set to On, Scaling is automatically set to Best Fit. |
| **Orientation**<br>Portrait<br>Landscape<br>Rev Portrait<br>Rev Landscape | Sets the image orientation<br>**Note:** Portrait is the factory default setting. |

# Help menu

The Help menu consists of a series of Help pages that are stored in the printer as PDF files. 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 Lexmark Web site at **www.lexmark.com**.

| Menu item | Description |
|---|---|
| Print All Guides | Prints all the guides |
| Color Quality | Provides information about adjusting and customizing color printing |
| Print Quality | Provides information about solving print quality issues |
| Printing Guide | Provides information about loading paper and other speciality media |
| Media Guide | Provides a list of the paper sizes supported in trays, drawers, and feeders |
| Print Defects Guide | Provides help in determining the printer part causing a repetitive defect |
| Menu Map | Provides a list of the printer 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 |
| Supplies Guide | Provides part numbers for ordering supplies |

# Securing the printer hard disk and other installed memory

## Statement of Volatility

Your printer contains various types of memory that are capable of storing device and network settings, information from embedded solutions, and user data. The types of memory—along with the types of data stored by each—are described below.

- **Volatile memory**—Your device utilizes standard *Random Access Memory* (RAM) to temporarily buffer user data during simple print and copy jobs.

- **Non-volatile memory**—Your device may utilize two forms of non-volatile memory: EEPROM and NAND (flash memory). Both types are used to store the operating system, device settings, network information, scanner and bookmark settings, and embedded solutions.

- **Hard disk memory**—Some devices have a hard disk drive installed. The printer hard disk is designed for device-specific functionality and cannot be used for long term storage for data that is not print-related. The hard disk does not provide the capability for users to extract information, create folders, create disk or network file shares, or FTP information directly from a client device. The hard disk can retain buffered user data from complex scan, print, copy, and fax jobs, as well as form data, and font data.

There are several circumstances under which you might wish to erase the contents of the memory devices installed in your printer. A partial list includes:

- The printer is being decommissioned
- The printer hard drive is being replaced
- The printer is being moved to a different department or location
- The printer is being serviced by someone from outside your organization
- The printer is being removed from your premises for service

## Disposing of a hard drive

**Note:** Not all printers have a hard disk installed.

In high-security environments, it may be necessary to take additional steps to ensure that confidential data stored on the printer hard disk cannot be accessed once the printer—or its hard disk—is removed from your premises. While most data can be erased electronically, you may want to consider one or more of the following actions before disposing of a printer or hard disk:

- **Degaussing**—Flushes the hard drive with a magnetic field that erases stored data
- **Crushing**—Physically compresses the hard disk to break component parts and render them unreadable
- **Milling**—Physically shreds the hard disk into small metal bits

**Note:** While most data can be erased electronically, the only way to guarantee that all data is completely erased is to physically destroy each memory device on which data could have been stored.

# Erasing volatile memory

The volatile memory (RAM) installed on your printer requires a power source to retain information. To erase the buffered data, simply power down the device.

# Erasing non-volatile memory

There are several methods available for erasing data stored in non-volatile memory, depending on the type of memory device installed, and the type of data stored by that device. For information about how to erase each type of information, see the *Embedded Web Server Administrator Guide*.

- **Individual settings**—Erase individual printer settings using the printer control panel or the printer Embedded Web Server.
- **Device and network settings**—Erase device and network settings and restore factory defaults by resetting the NVRAM using the printer Config menu.
- **Security settings**—Restore factory defaults or erase security settings by selecting a behavior for the Security Reset Jumper in the Embedded Web Server, and then moving a hardware jumper located on the motherboard.
- **Fax data**—Erase fax settings and data by resetting the NVRAM using the printer Config menu. Use this when the printer does not contain a hard disk or if you have chosen NAND for fax storage.

  **Note:** If the printer hard disk is partitioned for fax storage, then you must reformat that partition to erase fax data and settings.

- **Embedded solutions**—Erase information and settings associated with embedded solutions by uninstalling the solutions or applications, or by restoring factory defaults using the printer Config menu.

## Using the printer control panel

**1** Turn the printer off.

**2** Hold down 2ABC and 6MNO while turning the printer on. Release the buttons only when the screen with the progress bar appears.

The printer performs a power-on sequence, and then the Configuration menu appears. Once the printer is fully powered up, the touch screen displays a list of functions, instead of the standard home screen icons such as Copy or Fax.

**3** Touch **Wipe All Settings**.

The printer will reboot several times during this process.

  **Note:** Wipe All Settings securely removes device settings, solutions, jobs, faxes, and passwords on the printer.

**4** Touch **Back**, and then **Exit Config Menu**.

The printer will power-on reset, and then return to normal operating mode.

# Erasing printer hard disk memory

**Note:** Not all printers have a hard disk installed.

Configuring Disk Wiping in the printer menus enables you to remove residual confidential material left by scan, print, copy, and fax jobs, by securely overwriting files that have been marked for deletion.

## Using the Embedded Web Server

**1** From the Embedded Web Server, click **Settings** > **Security** > **Disk Wiping**.

   **Note:** Printers without a hard disk will not display Disk Wiping in the Security menu.

**2** For Wiping Mode, select one of the following:

   - **Auto**—Use this to automatically wipe data following each use (can increase the time between jobs).
   - **Manual**—Use this to set up a schedule for disk wiping.

**3** Click **Submit**.

**4** From the Security menu, click **Disk Wiping**.

**5** If you have enabled Manual mode and wish to set up a schedule for disk wiping, click **Scheduled Disk Wiping**.

   **Notes:**

   - Scheduled Disk Wiping will not be displayed until after Manual mode has been selected and submitted.
   - If you do not wish to schedule disk wiping, you can skip steps 5 and 6.

**6** Use the Time and Day(s) options to designate when disk wiping should occur, and then click **Add**. Repeat as needed to schedule additional times for disk wiping. When finished, use the browser Back button to return to the Disk Wiping setup screen.

   **Note:** Disk wiping can take from several minutes to more than an hour, during which time the printer will be unavailable for other user tasks.

**7** From the Disk Wiping settings screen, select one of the following for each method of disk wiping (Automatic, Manual, and Scheduled):

   - **Single Pass**— This lets you overwrite the printer hard disk in a single pass with a repeating bit pattern.
   - **Multi-pass**—This lets you overwrite the printer hard disk with random bit patterns several times, followed by a verification pass. A secure overwrite is compliant with the DoD 5220.22-M standard for securely erasing data from a hard disk. Highly confidential information should be wiped using this method.

**8** Click **Submit**.

## Using the printer control panel

**1** Turn the printer off.

**2** Hold down 2ABC and 6MNO while turning the printer on. It takes approximately a minute to boot into the Configuration menu.

   Once the printer is fully powered up, the touch screen should display a list of functions, instead of standard home screen icons such as Copy or Fax.

**3** Release the buttons when the screen with the progress bar appears. The printer performs a power-on sequence, and then the Configuration menu appears.

**4** Touch **Wipe Disk**, and then touch one of the following:

- **Wipe disk (fast)**—This lets you overwrite the disk with all zeroes in a single pass.
- **Wipe disk (secure)**—This lets you overwrite the disk with random bit patterns several times, followed by a verification pass. A secure overwrite is compliant with the DoD 5220.22-M standard for securely erasing data from a hard disk. Highly confidential information should be wiped using this method.

**5** Touch **Yes** to proceed with disk wiping. A status bar will indicate the progress of the disk wiping task.

**Note:** Disk wiping can take from several minutes to more than an hour, during which the printer will be unavailable for other user tasks.

**6** Touch **Back**, and then **Exit Config Menu**.

The printer will power-on reset, and then return to normal operating mode.

# Configuring printer hard disk encryption

**Note:** Your printer may not have a hard disk installed.

Enabling hard disk encryption helps prevent the loss of sensitive data in the event your printer or its hard disk is stolen.

## Using the Embedded Web Server

**1** From the Embedded Web Server, click **Settings** > **Security** > **Disk Encryption**.

**Note:** Disk Encryption appears in the Security Menu only when a formatted, non-defective printer hard disk is installed.

**2** From the Disk encryption menu, select **Enable**.

**Notes:**

- Enabling disk encryption will erase the content of the printer hard disk.
- Disk encryption can take from several minutes to more than an hour, during which the printer will be unavailable for other user tasks.

**3** Click **Submit**.

## Using the printer control panel

**1** Turn off the printer.

**2** Hold down 2ABC and 6MNO while turning the printer on. Release the buttons only when the screen with the progress bar appears.

The printer performs a power-on sequence, and then the Configuration menu appears. Once the printer is fully powered up, the touch screen displays a list of functions, instead of standard home screen icons such as Copy or Fax.

**3** Touch **Disk Encryption** > **Enable**.

**Note:** Enabling disk encryption will erase the contents of the printer hard disk.

**4** Touch **Yes** to proceed with disk wiping.

A status bar will indicate the progress of the disk wiping task. After the disk has been encrypted, the printer will return to the Enable/Disable screen.

**Notes:**

- Do not turn off the printer during the encryption process. Doing so may result in loss of data.
- Disk encryption can take from several minutes to more than an hour, during which the printer will be unavailable for other user tasks.

**5** Touch **Back**, and then **Exit Config Menu**.

The printer will power-on reset, and then return to normal operating mode.

# Maintaining the printer

Periodically, certain tasks are required to maintain optimum print quality.

## Cleaning the exterior of the printer

**1** Make sure that the printer is turned off and unplugged from the wall outlet.

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

**2** Remove paper from the standard exit bin.

**3** Dampen a clean, lint-free cloth with water.

**Warning—Potential Damage:** Do not use household cleaners or detergents, as they may damage the finish of the printer.

**4** Wipe only the outside of the printer, making sure to include the standard exit bin.

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

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

## Cleaning the printhead lenses

Clean the printhead lenses when you encounter print quality problems.

**1** Open the front door.
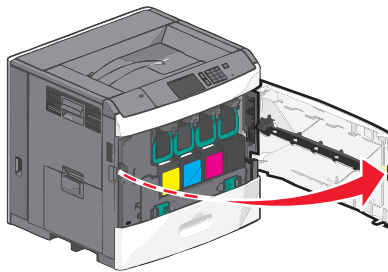


**2** Remove all print cartridges.

**Warning—Potential Damage:** Do not touch the shiny area on the photoconductor drum. Doing so can damage the photoconductor.
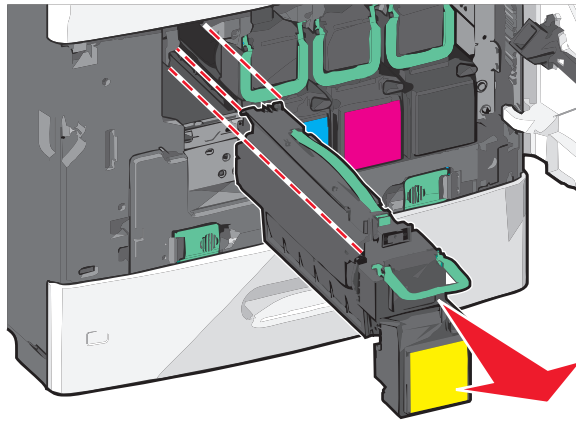
**3** Locate the four printhead lenses.
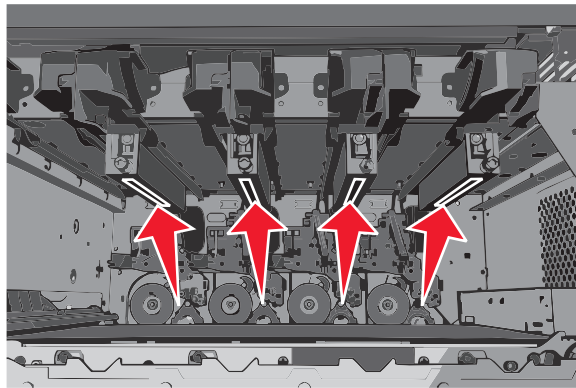


**4** Clean the lenses using compressed air.

**Warning—Potential Damage:** Do not touch the printhead lenses.

**5** Reinstall the print cartridges.

**6** Close the front door.
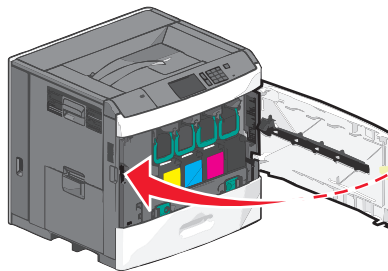


# Storing supplies

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

# Checking the status of supplies

A message appears on the display when a replacement supply item is needed or when maintenance is required.

## Checking the status of supplies from the printer control panel

From the home screen, touch **Status/Supplies** > **View Supplies**.

## Checking the status of supplies from a network computer

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

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

If you do not know the IP address of the printer, you can:
- View the IP address on the printer control panel in the TCP/IP section under the Networks/Ports menu.
- Print a network setup page or the menu settings pages and locate the IP address in the TCP/IP section.

2 Click **Device Status**.

The Device Status page appears, displaying a summary of supply levels.

# Ordering supplies

To order supplies in the U.S., contact Lexmark at 1-800-539-6275 for information about Lexmark authorized supplies dealers in your area. In other countries or regions, visit the Lexmark Web Site at **www.lexmark.com** or contact the place where you purchased the printer.

**Note:** All life estimates for printer supplies assume printing on letter- or A4-size plain paper.

## Ordering a print cartridge

When `88 [color] cartridge low` or `88 [color] cartridge nearly low` appears, order a new cartridge.

Estimated cartridge yield is based on the ISO/IEC 19798 standard. Extremely low print coverage (less than 1.25%) for extended periods of time may negatively affect actual yield and may cause cartridge parts to fail prior to exhaustion of toner.

**Recommended print cartridge and part number**

| Part name | Lexmark Return Program Cartridge | Regular cartridge |
|---|---|---|
| Cyan Print Cartridge | C792A1CG | C792A2CG |
| Cyan Extra High Yield Print Cartridge | C792X1CG | C792X2CG |
| Magenta Print Cartridge | C792A1MG | C792A2MG |
| Magenta Extra High Yield Print Cartridge | C792X1MG | C792X2MG |
| Yellow Print Cartridge | C792A1YG | C792A2YG |
| Yellow Extra High Yield Print Cartridge | C792X1YG | C792X2YG |
| Black Print Cartridge | C792A1KG | C792A2KG |
| Black Extra High Yield Print Cartridge | C792X1KG | C792X2KG |

# Ordering a fuser or a transfer module

When `80 Fuser Life Warning` or `83 Transfer Module Life Warning` appears, order a replacement fuser or a transfer module.

When `80 Replace Fuser` or `83 Replace Transfer Module` appears, install the new fuser or the new transfer module. For installation information, see the documentation that came with the part.

| Part name | Part number |
|---|---|
| Fuser | 40X7102 (100 volts) |
|  | 40X7100 (115 volts) |
|  | 40X7101 (230 volts) |
| Transfer Module | 40X7103 |

# Ordering a waste toner bottle

When `82 Waste toner bottle nearly full` appears, order a replacement waste toner bottle.

When `82 Replace waste toner bottle` appears, replace the waste toner bottle.

**Note:** Waste toner bottle reuse is not recommended.

| Part name | Part number |
|---|---|
| Waste toner bottle | C792X77G |

# Ordering staple cartridges

When `Staples Low` or `Staples Empty` appears, order the specified staple cartridge.

For more information, see the illustrations inside the stapler door.

| Part name | Part number |
|---|---|
| Staple Cartridges–3 pack | 25A0013 |
| (Since a pack contains 5,000 staples, a 3-pack contains 15,000 staples.) |  |

## Ordering a cleaning kit

Use the wet and dry wipes from the cleaning kit to clean the touch screen.

| Part name | Part number |
|---|---|
| Cleaning kit (wet and dry wipes) | 40X0392 |

# Replacing supplies

## Replacing a print cartridge

**1** Open the front door.
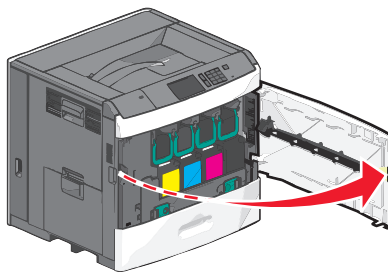


**2** Lift the green handle and pull the print cartridge. Grasp the top handle and lift the cartridge out of the machine.
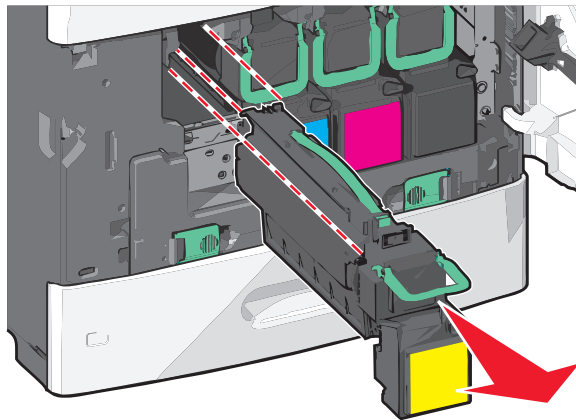
**3** Place the old cartridge in the replacement cartridge shipping box, and then attach the return label to the box for shipping.
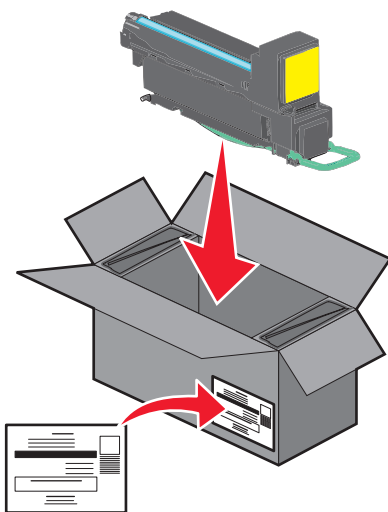


**4** Unpack a new print cartridge.

**Warning—Potential Damage:** Be careful not to touch the photoconductor drum. Doing so may affect the print quality of future print jobs.
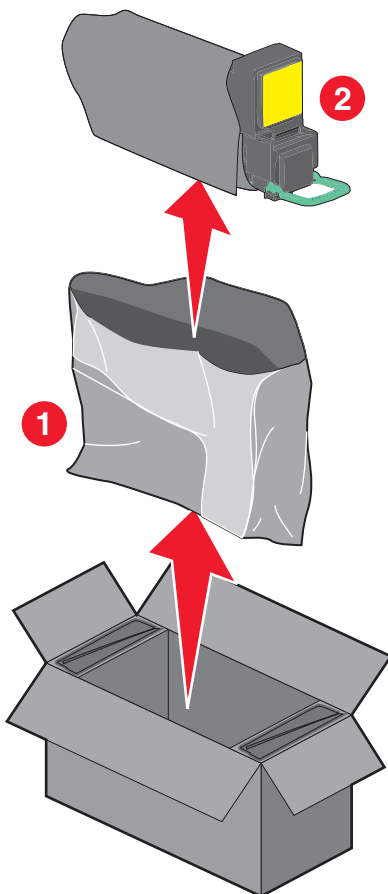
**5** Shake the new cartridge front-to-back and side-to-side to evenly distribute the toner.
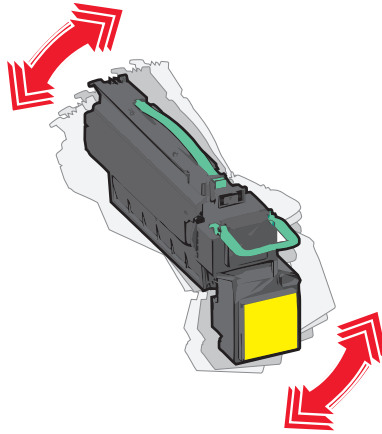


**6** Remove the red packing strip from the new cartridge.
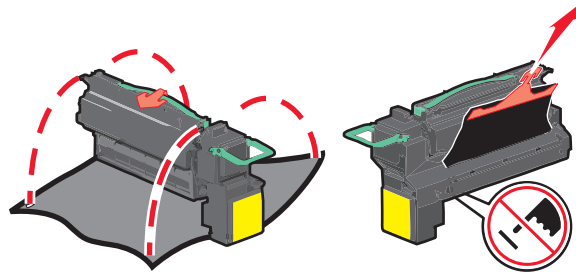


**7** Insert the new cartridge into the printer, and then push the green handle back in place.

**Note:** Make sure the cartridge is fully pushed in.
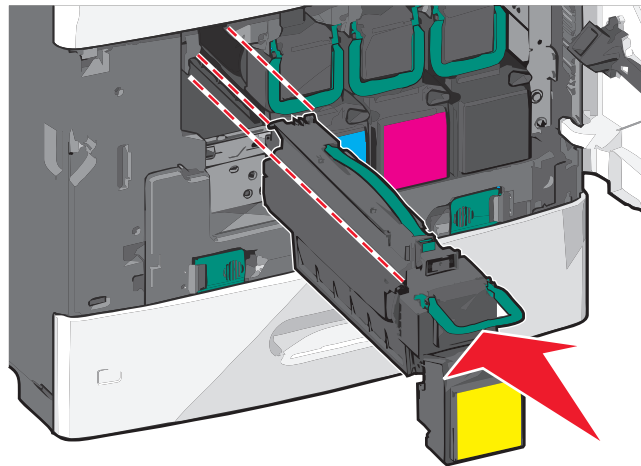
**8** Close the front door.
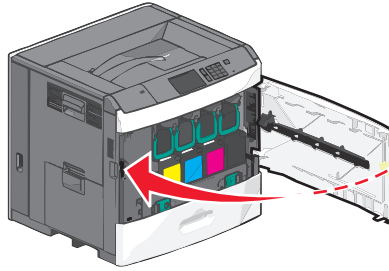


## Replacing the waste toner bottle

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

**1** Remove the replacement waste toner bottle from its shipping box, and then unpack it.
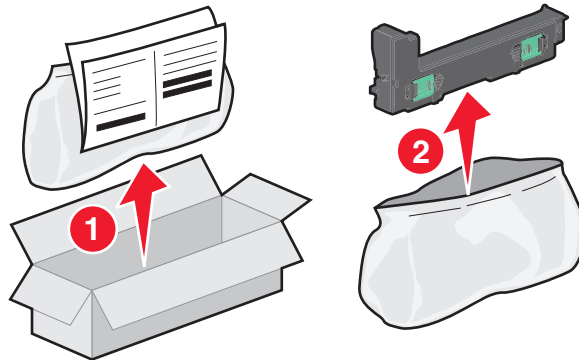


**2** Open the printer front door, and then open tray 1.

**3** Pull the green tabs sideways, and then grasp and pull the tabs with both hands to remove the waste toner bottle.
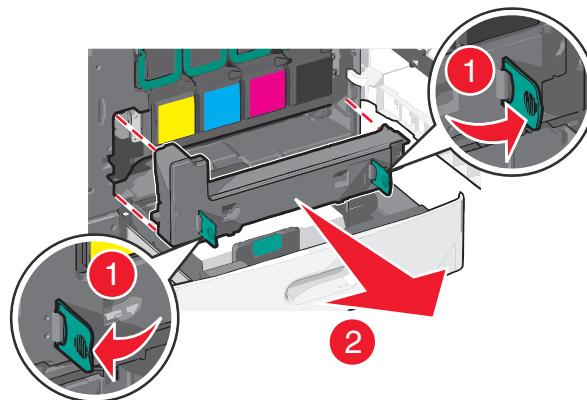


**4** Place the waste toner bottle in the recycling bag.

**5** Place the bag into the shipping box you removed the replacement part from.
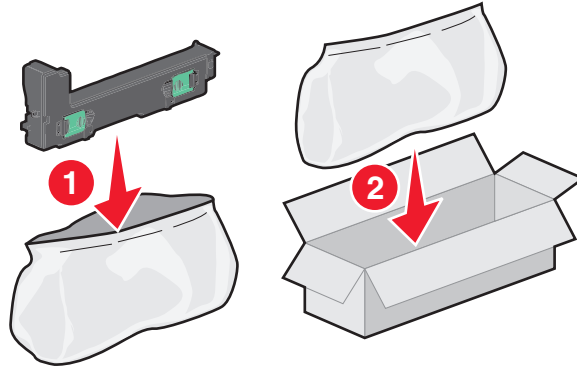
**6** Peel the recycling label off, and place it on the shipping box.
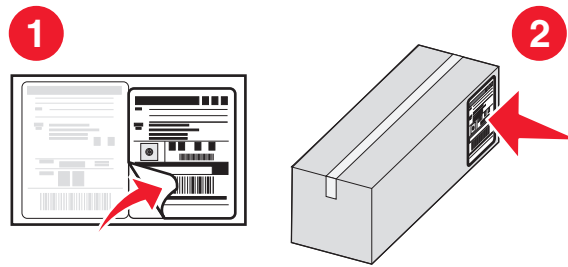
**7** Insert the new waste toner bottle into the printer.
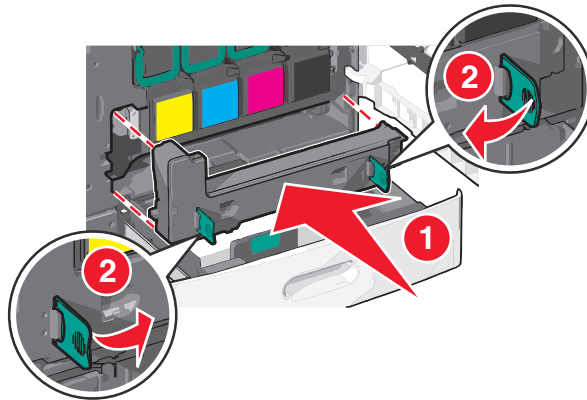
**8** Close tray 1, and then close the front door.

# Moving the printer

## Before moving the printer

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

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

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

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

**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.

## Shipping the printer

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

# Administrative support

## Finding advanced networking and administrator information

This chapter covers basic administrative support tasks using the Embedded Web Server. For more advanced system support tasks, see the *Networking Guide* on the *Software and Documentation* CD and the *Embedded Web Server Administrator's Guide* on the Lexmark Web site at **http://support.lexmark.com**.

## Using the Embedded Web Server

If the printer is installed on a network, then the Embedded Web Server is available for a range of functions including:

- Viewing a virtual display of the printer control panel
- Checking the status of the printer supplies
- Configuring printer settings
- Configuring network settings
- Viewing reports

To access the Embedded Web Server for your printer:

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

> **Notes:**
>
> - If you do not know the IP address of the printer, then print a network setup page, and then locate the IP address in the TCP/IP section.
> - If you are using a proxy server, then temporarily disable it to load the Embedded Web Server correctly.

**2** Press **Enter**.

## Checking the virtual display

**1** Open an Embedded Web Server associated with your printer.

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

If you do not know the IP address of the printer, you can:

- View the IP address on the printer control panel in the TCP/IP section under the Networks/Ports menu.
- Print a network setup page or the menu settings pages and locate the IP address in the TCP/IP section.

**2** Check the virtual display that appears in the top left corner of the screen.

The virtual display works as an actual display would work on a printer control panel, showing printer messages.

## Checking the status of the printer

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

If you do not know the IP address of the printer, you can:

- View the IP address on the printer control panel in the TCP/IP section under the Networks/Ports menu.
- Print a network setup page or the menu settings pages and locate the IP address in the TCP/IP section.

**2** Click **Device Status**.

The device status shows the following:

- Paper tray settings
- Level of toner in the print cartridge
- Percentage of life remaining in the maintenance kit
- Capacity measurements of certain printer parts

# Setting up e-mail alerts

Configure the printer to send you e-mail alerts when the supplies are getting low or when the paper needs to be changed or added, or when there is a paper jam.

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

If you do not know the IP address of the printer, you can:

- View the IP address on the printer control panel in the TCP/IP section under the Networks/Ports menu.
- Print a network setup page or the menu settings pages and locate the IP address in the TCP/IP section.

**2** Click **Settings**.

**3** Under Other Settings, click **E-mail Alert Setup**.

**4** Select the items for notification, and type the e-mail addresses.

**5** Click **Submit**.

**Note:** For information on setting up the e-mail server, contact your system support person.

# Viewing reports

You can view some reports from the Embedded Web Server. These reports are useful for assessing the status of the printer, the network, and supplies.

To view reports from a network printer:

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

If you do not know the IP address of the printer you can:

- View the IP address on the printer control panel in the TCP/IP section under the Networks/Ports menu.
- Print a network setup page or the menu settings pages and locate the IP address in the TCP/IP section.

**2** Click **Reports**, and then click the type of report you want to view.

# Restoring factory default settings

If you want to retain a list of the current menu settings for reference, then print a menu settings page before restoring the factory default settings.

**Warning—Potential Damage:** Restoring factory defaults returns most printer settings to the original factory default settings. Exceptions include the display language, custom sizes and messages, and network/port menu settings. All downloads stored in RAM are deleted. Downloads stored in flash memory or on a printer hard disk are not affected.

From the home screen, navigate to:

> Settings > General Settings > Factory Defaults > Restore Now >

# Clearing jams

By carefully selecting papers and specialty media and loading it properly, you should be able to avoid most jams. For more information, see "Avoiding jams" on page 163. If jams do occur, follow the steps outlined in this chapter.

To resolve the jam messages, you must clear the entire paper path, and touch **Continue** to clear the message and resume printing. The printer prints a new copy of the page that jammed if Jam Recovery is set to On or Auto; however, the Auto setting does not guarantee the page will print.

**Note:** Jam recovery is set to Auto by default. The printer reprints jammed pages unless the memory required to hold the pages is needed for other printer tasks.

## Avoiding jams

### Paper tray recommendations

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

### Paper recommendations

- Use only recommended paper or specialty media.
- Do not load wrinkled, creased, damp, bent, or curled paper.
- Flex and straighten paper before loading it.
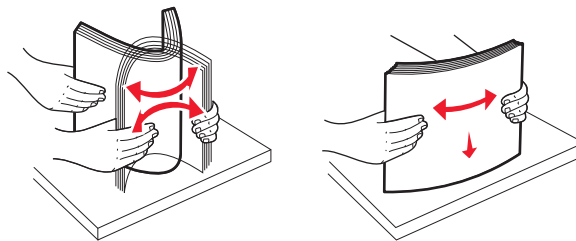


- Do not use paper that has been cut or trimmed by hand.
- Do not mix paper sizes, weights, or types in the same stack.
- Make sure all sizes and types are set correctly in the printer control panel menus.
- Store paper per manufacturer recommendations.

## Understanding jam numbers and locations

When a jam occurs, a message indicating the jam location appears on the display. To resolve any paper jam message, you must clear all jammed paper from the paper path.
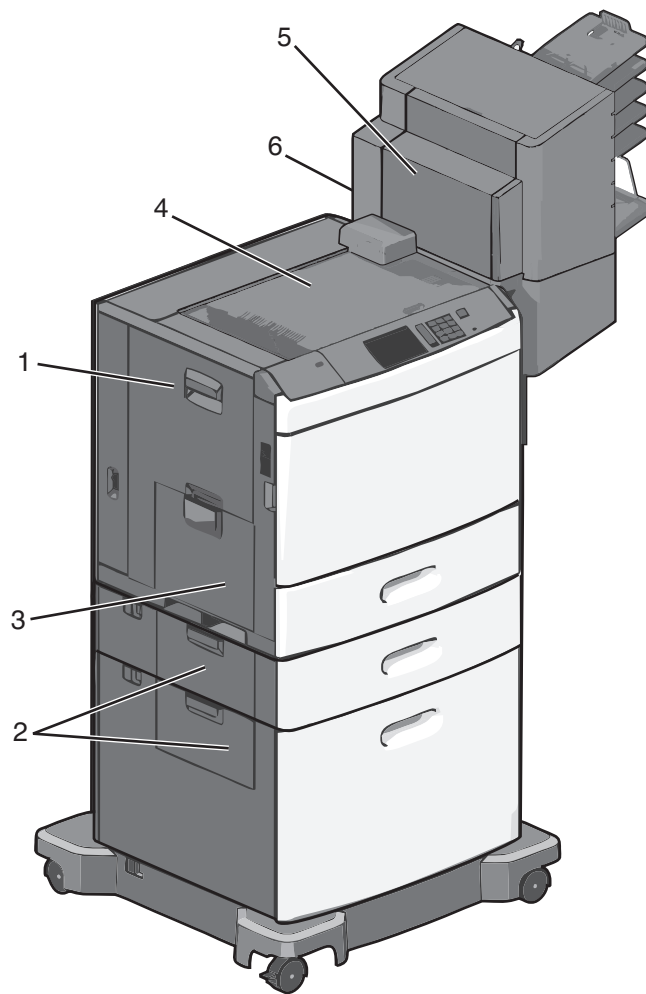
| Area | Jam numbers | What to do |
|------|-------------|------------|
| **1** | **200-239** | Open side door, and then remove the jammed paper. |
| **2** | **24x** | Open side door of the specified tray, and then remove the jammed paper. |
| **3** | **250** | Remove all paper from the multipurpose feeder, and then remove the jammed paper. |
| **4** | **400-403, 460-461** | Open the Horizontal Transport Unit (HTU) door, and then remove the jammed paper. |
| **5** | **431-458** | Push the button to slide the finisher or mailbox to the right, open the finisher or mailbox door, and then remove the jammed paper. |
| **6** | **455** | Open staple door, remove the staple cartridge, and then remove the jammed staple. |

# 200 paper jam

**1** Open the side door of the printer.

⚠ **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** Firmly grasp the jammed paper, and then gently pull it out.
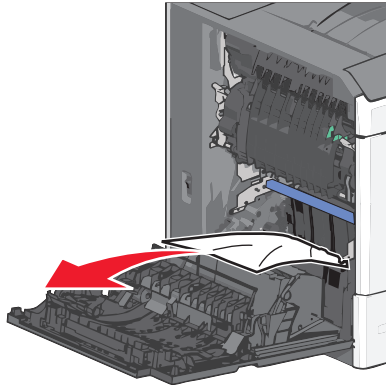


**Note:** Make sure all paper fragments are removed.

**3** Close the side door of the printer.

**4** From the printer control panel, touch **Continue, jam cleared**.

# 201 paper jam

**1** Open the side door of the printer.

⚠ **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** Determine where the jam is located, and then remove it:

   **a** If paper is inside the fuser unit, then open the fuser access door.
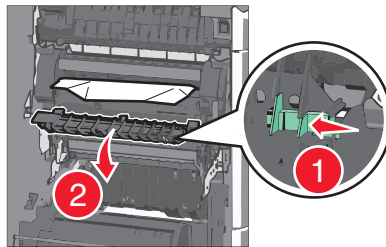


   **b** Firmly grasp the jammed paper on each side, and then gently pull it out.

      **Warning—Potential Damage:** Do not touch the center of the fuser unit. Doing so will damage the fuser.

      **Note:** Make sure all paper fragments are removed.

**3** Close the side door of the printer.

**4** From the printer control panel, touch **Continue, jam cleared**.

# 202–203 paper jams

If paper is visible in the standard exit bin, then firmly grasp the paper on each side, and then gently pull it out.

**Note:** Make sure all paper fragments are removed.
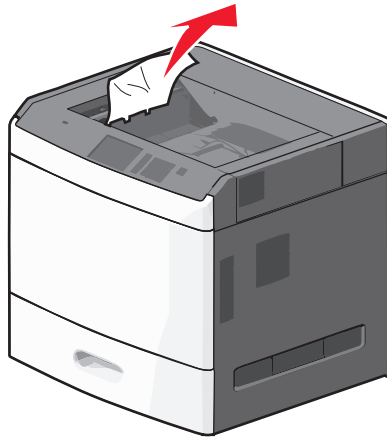


## Paper jam in the fuser

**1** Open the side door of the printer.

> ⚠ **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** If paper is visible inside the fuser unit, then open the fuser access door.
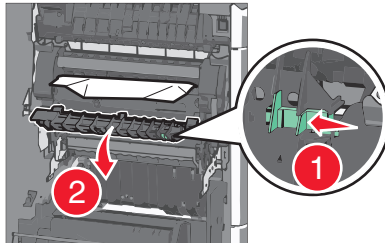


**3** Firmly grasp the jammed paper on each side, and then gently pull it out.

> **Warning—Potential Damage:** Do not touch the center of the fuser unit. Doing so will damage the fuser.

> **Note:** Make sure all paper fragments are removed.

**4** Close the side door.

## Paper jam under the fuser

**1** Open the side door of the printer.

> ⚠ **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** If paper is visible under the fuser, then firmly grasp the jammed paper on each side, and then gently pull it out.

> **Note:** Make sure all paper fragments are removed.

**3** Close the side door of the printer.

**4** From the printer control panel, touch **Continue, jam cleared**.

# 230 paper jam

**1** Open the side door of the printer.

> ⚠ **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** Slide the latch to open the duplex cover.
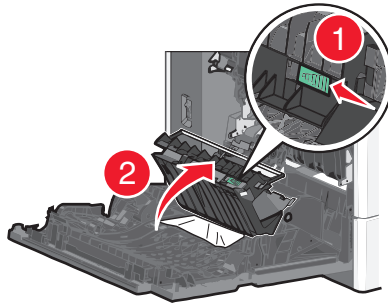


**3** Grasp the jammed paper, and then gently pull it out.

> **Note:** Make sure all paper fragments are removed.
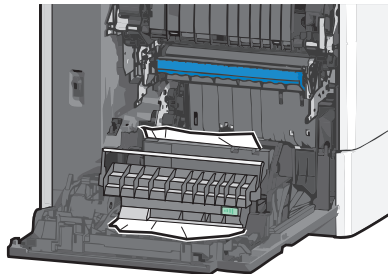


**4** Close the duplex cover.

**5** Close the side door of the printer.

**6** From the printer control panel, touch **Continue, jam cleared**.

# 231–239 paper jams

1 Open the side door of the printer.

> ⚠ **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 Slide the latch to open the duplex cover.
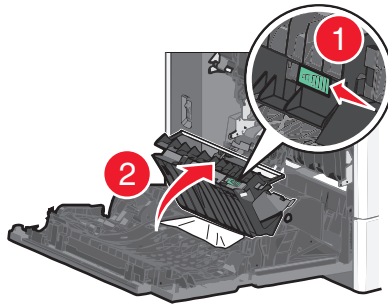
3 Grasp the jammed paper, and then gently pull it out.

**Note:** Make sure all paper fragments are removed.
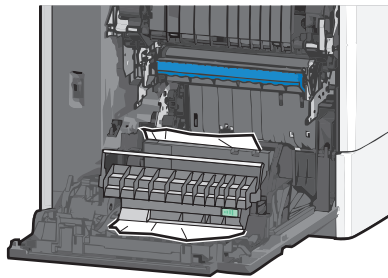
4 Close the duplex cover.

5 Close the side door of the printer.

6 From the printer control panel, touch **Continue, jam cleared**.

# 24x paper jam

## Paper jam in Tray 1

1 Open the side door.

2 Grasp the jammed paper on each side, and then gently pull it out.

3 Close the side door.

4 From the printer control panel, touch **Continue, jam cleared**.

## Paper jam in the optional trays

**1** Open the side door of the specified optional tray.

**2** Grasp the jammed paper on each side, and then gently pull it out.
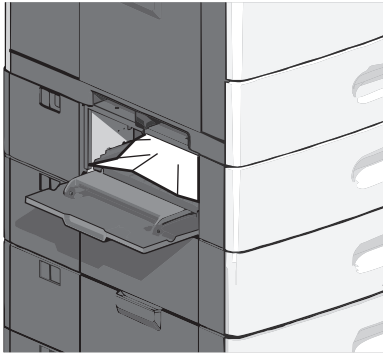


**3** Close the side door.

**4** From the printer control panel, touch **Continue, jam cleared**.

# 250 paper jam

**1** Push the paper pick tab, and then remove all paper from the multipurpose feeder.
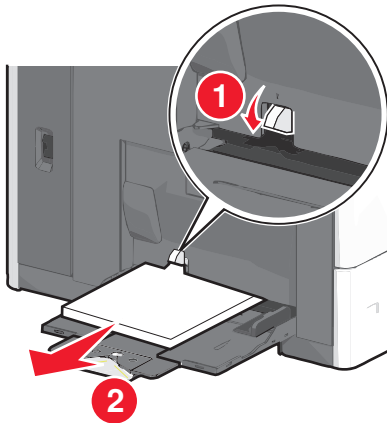


**Warning—Potential Damage:** Pulling the paper out, without pushing the paper pick tab first, may cause the paper pick tab to break.

**2** Grasp the jammed paper on each side, and then gently pull it out.

**Note:** Make sure all paper fragments are removed.

**3** Reload paper into the multipurpose feeder, and then adjust the paper guides.

**4** From the printer control panel, touch **Continue, jam cleared**.

# 400–403 and 460–461 paper jams

**1** Open the paper transport unit door.
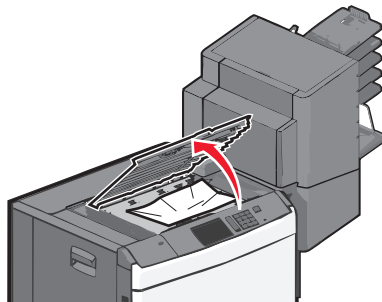
**2** Firmly grasp the jammed paper, and then gently pull it out.

**Note:** Make sure all paper fragments are removed.

**3** Close the paper transport unit door.

**4** From the printer control panel, touch **Continue, jam cleared**.

# 431–454, and 456–458 paper jams

**1** Push the button, and then slide the output finisher or mailbox to the right.
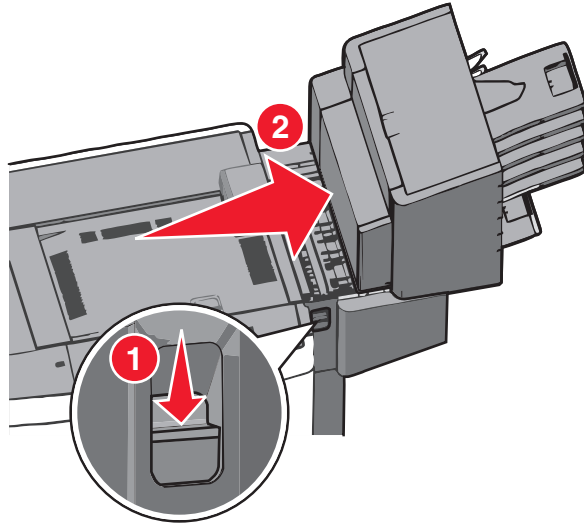
**2** Open the finisher or mailbox access door.
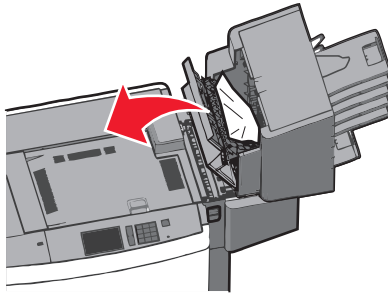
**3** Grasp the jammed paper, and then gently pull it out.

   **Note:** Make sure all paper fragments are removed.

**4** Close the finisher or mailbox access door.

**5** Slide the finisher or mailbox to the left until it *clicks* in place.

**6** From the printer control panel, touch **Continue, jam cleared**.

# 455 staple jam

**1** Press the latch to open the stapler door.

   **Note:** The stapler door is located behind the finisher.
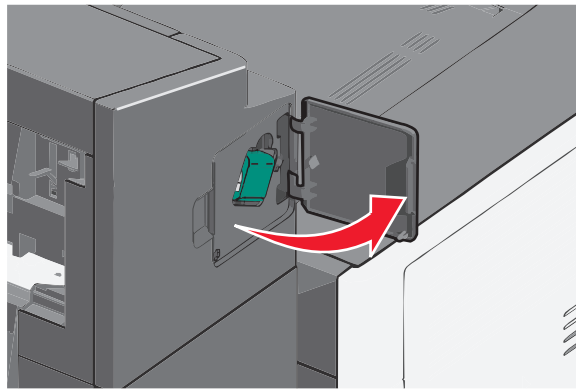
**2** Lower the latch of the staple cartridge holder, and then pull the staple cartridge holder out of the printer.
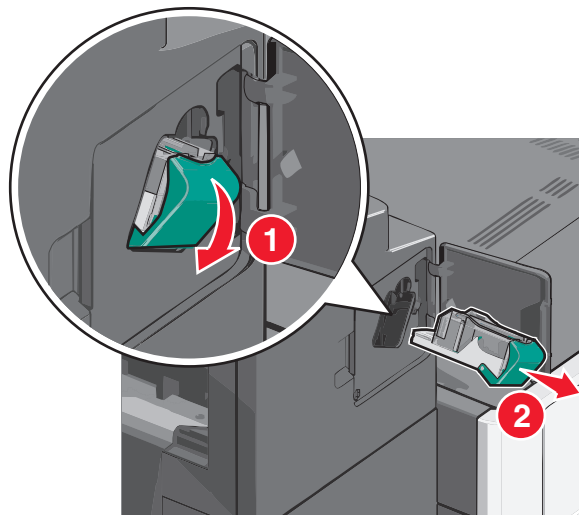
**3** Use the metal tab to lift the staple guard, and then remove any jammed or loose staples.

Clearing jams
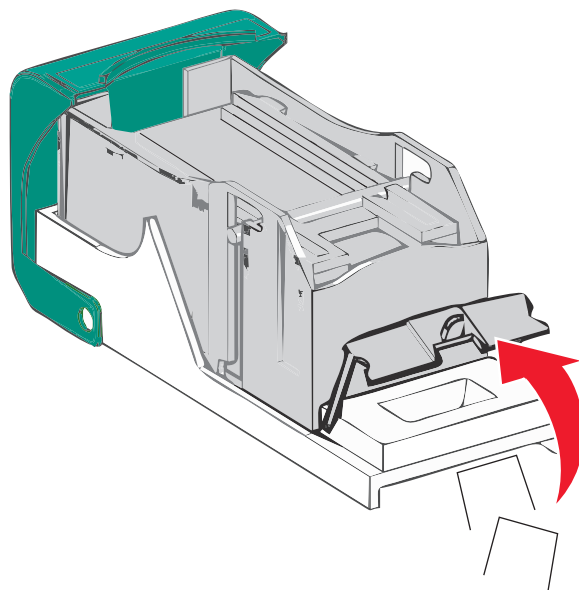
**4** Close the staple guard.
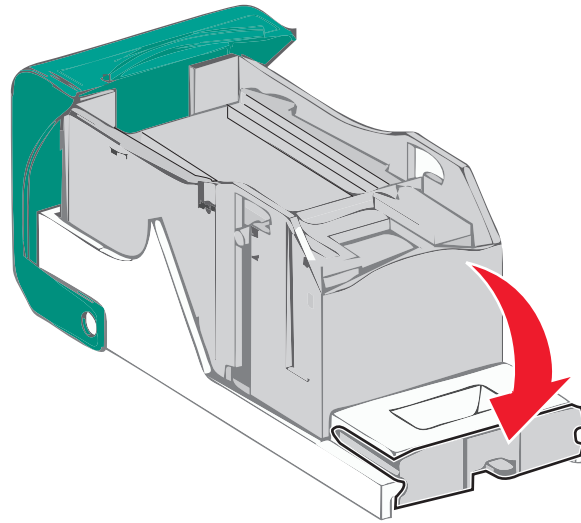


**5** Press down on the staple guard until it *clicks* into place.

**6** Push the staple cartridge holder firmly back into the stapler unit until the staple cartridge holder *clicks* into place.
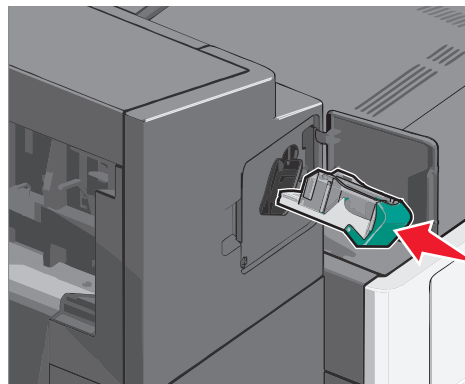


**7** Close the stapler door.

**8** From the printer control panel, touch **Continue, jam cleared**.

# 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 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.

## Understanding printer messages

### Adjusting color

Wait for the process to complete.

### An error has occurred with the USB drive. Please remove and reinsert drive.

Try one or more of the following:

- Remove and reinsert the flash drive.
- If the error message remains, the flash memory may be defective and require replacement.

### Change [paper source] to [custom type name]

Try one or more of the following:

- Touch **Use current [paper source]** to ignore the message and print from the selected tray.
- Load the correct paper size and type in the tray, verify the paper size and type settings are specified in the printer control panel Paper menu, and then touch **Paper changed, continue**.
- Touch **Cancel job** to cancel the print job.

### Change [paper source] to [custom type name] load [orientation]

Try one or more of the following

- Touch **Use current [paper source]** to ignore the message and print from the selected tray.
- Load the correct paper size and type in the tray, verify the paper size and type settings are specified in the printer control panel Paper menu, and then touch **Paper changed, continue**.
- Touch **Cancel job** to cancel the print job.

## Change [paper source] to [custom string]

Try one or more of the following:
- Touch **Use current [paper source]** to ignore the message and print from the selected tray.
- Load the correct paper size and type in the tray, verify the paper size and type settings are specified in the printer control panel Paper menu, and then touch **Paper changed, continue**.
- Touch **Cancel job** to cancel the print job.

## Change [paper source] to [custom string] load [orientation]

Try one or more of the following:
- Touch **Use current [paper source]** to ignore the message and print from the selected tray.
- Load the correct paper size and type in the tray, verify the paper size and type settings are specified in the printer control panel Paper menu, and then touch **Paper changed, continue**.
- Touch **Cancel job** to cancel the print job.

## Change [paper source] to [paper size] [paper type]

Try one or more of the following:
- Touch **Use current [paper source]** to ignore the message and print from the selected tray.
- Load the correct paper size and type in the tray, verify the paper size and type settings are specified in the printer control panel Paper menu, and then touch **Paper changed, continue**.
- Touch **Cancel job** to cancel the print job.

## Change [paper source] to [paper size] [paper type] load [orientation]

Try one or more of the following:
- Touch **Use current [paper source]** to ignore the message and print from the selected tray.
- Load the correct paper size and type in the tray, verify the paper size and type settings are specified in the printer control panel Paper menu, and then touch **Paper changed, continue**.
- Touch **Cancel job** to cancel the print job.

## Close paper transport cover

Close the paper transport unit cover or door.

## Close left side door

Close the left side door of the printer.

## Close [tray] door

Close the specified tray door.

## Close finisher side door

Close the side door of the finisher.

## Close finisher top cover

Close the top cover of the finisher.

## Close front door

Close the front door of the printer.

## Disk corrupted

The printer attempted a hard disk recovery on a corrupted hard disk, and the hard disk cannot be repaired. The hard disk must be reformatted.

Touch **Format disk** to reformat the printer hard disk and clear the message.

**Note:** Formatting deletes all the files stored on the printer hard disk.

## Disk near full. Securely clearing disk space.

Try one or more of the following:
- Touch **Continue** to clear the message and continue printing.
- Delete fonts, macros, and other data stored on the printer hard disk.
- Install a hard disk with higher capacity.

## Disk problem

The printer hard disk must be reformatted.

Touch **Format disk** to reformat the printer hard disk and clear the message.

**Note:** Formatting deletes all the files stored on the printer hard disk.

## Empty the hole punch box

1 Empty the hole punch box.

   For instructions on emptying the hole punch box, from the printer control panel touch **More Information**.

2 Reinsert the hole punch box into the finisher, and then touch **Continue** to clear the message.

## Error reading USB drive. Remove USB.

An unsupported USB device has been inserted. Remove the USB device, and then install a supported one.

## Insert staple cartridge

Try one or more of the following:

- Insert a staple cartridge.

- Touch **Continue** to clear the message and print without using the staple finisher.

## Insert Tray [x]

Insert the specified tray into the printer.

## Insert the hole punch box

Insert the hole punch box into the finisher, and then touch **Continue** to clear the message.

## Install bin [x]

Try one or more of the following:

- Install the specified bin:
  1 Turn the printer off.
  2 Unplug the power cord from the wall outlet.
  3 Install the specified bin.
  4 Connect the power cord to a properly grounded electrical outlet.
  5 Turn the printer back on.
- Cancel the print job.

## Install envelope feeder

Try one or more of the following:

- Install the envelope feeder:
  1 Turn the printer off.
  2 Unplug the power cord from the wall outlet.
  3 Install the envelope feeder.
  4 Connect the power cord to a properly grounded electrical outlet.
  5 Turn the printer back on.
- Cancel the print job.

## Install Tray [x]

Try one or more of the following:

- Install the specified tray:
  1 Turn the printer off.
  2 Unplug the power cord from the wall outlet.
  3 Install the specified tray.

**4** Connect the power cord to a properly grounded electrical outlet.

**5** Turn the printer back on.

- Cancel the print job.

# Load [src] with [custom type name]

Try one or more of the following:

- Load the specified paper in the tray or feeder.
- Touch **Paper loaded, continue** to clear the message and continue printing.

  If the printer finds a tray that has the correct paper type and size, it feeds from that tray. If the printer cannot find a tray with the correct paper type and size, it prints from the default paper source.

- Cancel the print job.

# Load [src] with [custom string]

Try one or more of the following:

- Load the specified paper in the tray or feeder.
- Touch **Paper loaded, continue** to clear the message and continue printing.

  If the printer finds a tray that has the correct paper type and size, it feeds from that tray. If the printer cannot find a tray with the correct paper type and size, it prints from the default paper source.

- Cancel the print job.

# Load [src] with [size]

Try one or more of the following:

- Load the specified paper in the tray or feeder.
- Touch **Paper loaded, continue** to clear the message and continue printing.

  If the printer finds a tray that has the correct paper type and size, it feeds from that tray. If the printer cannot find a tray with the correct paper type and size, it feeds from the default paper source.

- Cancel the print job.

# Load [src] with [type] [size]

Try one or more of the following:

- Load the specified paper in the tray or feeder.
- Touch **Paper loaded, continue** to clear the message and continue printing.

  If the printer finds a tray that has the correct paper type and size, it feeds from that tray. If the printer cannot find a tray with the correct paper type and size, it feeds from the default paper source.

- Cancel the print job.

## Load Manual Feeder with [custom type name]

Try one or more of the following:

- Load the specified paper in the manual feeder.
- Touch **Prompt each page, paper loaded** or **Do not prompt, paper loaded** to clear the message and continue printing.
- Touch **Automatically select paper** to use the paper loaded in the tray.
- Cancel the print job.

## Load Manual Feeder with [custom string]

Try one or more of the following:

- Load the specified paper in the manual feeder.
- Touch **Prompt each page, paper loaded** or **Do not prompt, paper loaded** to clear the message and continue printing.
- Touch **Automatically select paper** to use the paper loaded in the tray.
- Cancel the print job.

## Load Manual Feeder with [paper type] [paper size]

Try one or more of the following:

- Load the specified paper in the manual feeder.
- Touch **Prompt each page, paper loaded** or **Do not prompt, paper loaded** to clear the message and continue printing.
- Touch **Automatically select paper** to use the paper loaded in the tray.
- Cancel the print job.

## Load staples

Try one or more of the following:

- Replace the specified staple cartridge in the finisher.
- Touch **Continue** to clear the message and continue printing.
- Touch **Cancel job** to cancel the print job.

## Paper changes needed

Try one or more of the following:

- Touch **Use current supplies** to clear the message and continue printing.
- Cancel the current print job.

# Reattach bin [x]

Try one or more of the following:

- Turn the printer off and then back on.
- Reattach the specified bin:
  1. Turn the printer off.
  2. Unplug the power cord from the wall outlet.
  3. Remove the specified bin.
  4. Reattach the bin.
  5. Connect the power cord to a properly grounded electrical outlet.
  6. Turn the printer back on.
- Remove the specified bin:
  1. Turn the printer off.
  2. Unplug the power cord from the wall outlet.
  3. Remove the specified bin.
  4. Contact Customer Support.
- Touch **Continue** to clear the message and print without using the specified bin.

# Reattach bin [x] – [y]

Try one or more of the following:

- Turn the printer off and then back on.
- Reattach the specified bins:
  1. Turn the printer off.
  2. Unplug the power cord from the wall outlet.
  3. Remove the specified bins.
  4. Reattach the bins.
  5. Connect the power cord to a properly grounded electrical outlet.
  6. Turn the printer back on.
- Remove the specified bins:
  1. Turn the printer off.
  2. Unplug the power cord from the wall outlet.
  3. Remove the specified bins.
  4. Contact Customer Support.
- Touch **Continue** to clear the message and print without using the specified bins.

# Remove paper from standard output bin

Remove the stack of paper from the standard exit bin.

## Remove paper from bin [x]

Remove the paper from the specified bin. The printer automatically senses paper removal and resumes printing.

If removing the paper does not clear the message, then touch **Continue**.

## Remove paper from all bins

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

## Remove paper from [linked bin set name]

Remove the paper from the specified bin. The printer automatically senses paper removal and resumes printing.

If removing the paper does not clear the message, then touch **Continue**.

## Remove packaging material, [area name]

Remove any remaining packaging material from the specified location.

## Restore held jobs?

Try one or more of the following:
- Touch **Restore** to restore all held jobs stored on the printer hard disk.
- Touch **Do not restore** if you do not want any print jobs to be restored.

## Slide finisher to the left

Slide the mailbox or finisher to the left until it *clicks* into place.

## Some held jobs were not restored

Touch **Continue** to delete the specified job.

**Note:** Held jobs that are not restored stay on the hard disk and are inaccessible.

## Supply needed to complete job

A supply needed to complete the job is missing. Touch **Cancel** to clear the message.

## Unsupported disk

An unsupported disk has been inserted. Remove the unsupported disk, and then install a supported one.

## 31.xx Missing or defective [color] cartridge

Try one or more of the following:

**1** Remove and reinstall the specified print cartridge.

For instructions on removing a print cartridge, touch **More Information**.

**2** Touch **Continue** to clear the message.

> **Note:** If the message is not cleared, then replace the defective print cartridge.

## 32.xx [color] cartridge part number unsupported by device

**1** Remove the unsupported print cartridge, and then install a supported one.

For instructions on removing a print cartridge, touch **More Information**.

**2** Touch **Continue** to clear the message.

## 34 Incorrect paper size, open [src]

Try one or more of the following:

- Load the appropriate paper or specialty media in the proper tray.
- Confirm that the wheel on tray 1 is set to the paper size loaded in the tray. Make sure this size is the size you are trying to print.
- Touch **Continue** to clear the message and print using a different tray.
- Check length and width guides of the tray and make sure the paper is properly loaded in the tray.
- Make sure the Print Properties or Print dialog settings have 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 print job.

## 35 Insufficient memory to support Resource Save feature

Try one or more of the following:

- Touch **Continue** to disable Resource Save and continue printing.
- To enable Resource Save after receiving this message, make sure the link buffers are set to Auto, and then exit the menus to activate the link buffer changes. When `Ready` appears, enable Resource Save.
- Install additional memory.

## 36 Printer service required

Touch **Continue** to clear the message or contact customer support.

## 37 Insufficient memory to collate job

Try one or more of the following:
- Touch **Continue** to print the portion of the job already stored and begin collating the rest of the print job.
- Cancel the current print job.

## 37 Insufficient memory for Flash Memory Defragment operation

Try one or more of the following:
- Touch **Continue** to stop the defragment operation and continue printing.
- Delete fonts, macros, and other data in printer memory.
- Install additional printer memory.

## 37 Insufficient memory, some Held Jobs were deleted

The printer deleted some held jobs in order to process current jobs.

Touch **Continue** to clear the message.

## 37 Insufficient memory, some held jobs will not be restored

The printer was unable to restore some or all of the confidential or held jobs on the printer hard disk.

Touch **Continue** to clear the message.

## 38 Memory full

Try one or more of the following:
- Touch **Continue** to clear the message.
- Cancel the current print job.
- Install additional printer memory.

## 39 Complex page, some data may not have printed

Try one or more of the following:
- Touch **Continue** to clear the message and continue printing.
- Cancel the current print job.
- Install additional printer memory.

## 40 [color] invalid refill, change cartridge

Replace the specified cartridge to continue printing.

## 51 Defective flash detected

Try one or more of the following:

- Touch **Continue** to clear the message and continue printing.
- Cancel the current print job.

## 52 Not enough free space in flash memory for resources

Try one or more of the following:

- Touch **Continue** to clear the message and continue printing.

  Downloaded fonts and macros not previously stored in flash memory are deleted.
- Delete fonts, macros, and other data stored in flash memory.
- Upgrade to a larger capacity flash memory card.

## 53 Unformatted flash detected

Try one or more of the following:

- Touch **Continue** to stop the defragment operation and continue printing.
- Format the flash memory. If the error message remains, the flash memory may be defective and require replacing.

## 54 Serial option [x] error

Try one or more of the following:

- Check that the serial cable is connected properly and is the correct one for the serial port.
- Check that the serial interface parameters (protocol, baud, parity, and data bits) are set correctly on the printer and on the host computer.
- Touch **Continue** to continue printing.
- Turn the printer power off and then back on to reset the printer.

## 54 Standard network software error

Try one or more of the following:

- Touch **Continue** to continue printing.
- Turn the printer off and then back on to reset the printer.
- Upgrade (flash) the network firmware in the printer or print server.

## 54 Network [x] software error

Try one or more of the following:

- Touch **Continue** to continue printing.
- Turn the printer off, wait for about 10 seconds, and then turn the printer back on.
- Upgrade (flash) the network firmware in the printer.

## 55 Unsupported option in slot [x]

**1** Turn the printer off.

**2** Unplug the power cord from the wall outlet.

**3** Remove the unsupported option card from the printer system board, and then replace it with a supported card.

**4** Connect the power cord to a properly grounded electrical outlet.

**5** Turn the printer back on.

## 56 Parallel port [x] disabled

Try one or more of the following:

- Touch **Continue** to clear the message.

  The printer discards any data received through the parallel port.

- Make sure the Parallel Buffer menu item is not set to Disabled.

## 56 Serial port [x] disabled

Try one or more of the following:

- Touch **Continue** to clear the message.

  The printer discards any data received through the serial port.

- Make sure the Serial Buffer menu is not set to Disabled.

## 56 Standard USB port disabled

Try one or more of the following:

- Touch **Continue** to clear the message.

  The printer discards any data received through the USB port.

- Make sure the USB Buffer menu item is not set to Disabled.

## 56 Standard parallel port disabled

Try one or more of the following:

- Touch **Continue** to clear the message.

  The printer discards any data received through the parallel port.

- Make sure the Parallel Buffer menu item is not set to Disabled.

## 56 USB port [x] disabled

Try one or more of the following:

- Touch **Continue** to clear the message.

  The printer discards any data received through the USB port.

- Make sure the USB Buffer menu is not set to Disabled.

## 57 Configuration change, some held jobs were not restored

Something has changed in the printer to invalidate the held jobs. Possible changes include:

- The printer firmware has been updated.
- Paper input options needed for the print job were removed.
- The print job was created using data from a device in the USB port and the device is no longer in the USB port.
- The printer hard disk contains print jobs that were stored while installed in a different printer model.

Touch **Continue** to clear the message.

## 58 Input config error

1 Turn the printer off.

2 Unplug the power cord from the wall outlet.

3 Check if all tray configurations are correct. Remove unnecessary trays if needed.

4 Connect the power cord to a properly grounded electrical outlet.

5 Turn the printer back on.

## 58 Too many bins attached

1 Turn the printer off.

2 Unplug the power cord from the wall outlet.

3 Remove the additional bins.

4 Connect the power cord to a properly grounded electrical outlet.

5 Turn the printer back on.

## 58 Too many disks installed

1 Turn the printer off.

2 Unplug the power cord from the wall outlet.

3 Remove the excess disks.

4 Connect the power cord to a properly grounded electrical outlet.

5 Turn the printer back on.

## 58 Too many flash options installed

1 Turn the printer off.

2 Unplug the power cord from the wall outlet.

3 Remove the excess flash memory.

**4** Connect the power cord to a properly grounded outlet.

**5** Turn the printer back on.

## 58 Too many trays attached

**1** Turn the printer off.

**2** Unplug the power cord from the wall outlet.

**3** Remove the additional trays.

**4** Connect the power cord to a properly grounded outlet.

**5** Turn the printer back on.

## 59 Incompatible output bin [x]

Try one or more of the following:
- Remove the specified output bin.
- Touch **Continue** to clear the message and continue printing without using the specified output bin.

## 61 Remove defective disk

Try one or more of the following:
- Touch **Continue** to clear the message and continue printing.
- Install a different printer hard disk before performing any operations that require a printer hard disk.

## 62 Disk full

Try one or more of the following:
- Touch **Continue** to clear the message and continue processing.
- Delete fonts, macros, and other data stored on the printer hard disk.
- Install a printer hard disk with larger capacity.

## 80.xx Fuser near life warning

**1** Order a replacement fuser immediately.

**2** When print quality is reduced, install the new fuser, following the instruction sheet that came with the replacement part.

**3** Touch **Continue** to clear the message and continue printing.

## 80.xx Fuser life warning

- Order a replacement fuser immediately. When print quality is reduced, install the new fuser, following the instruction sheet that came with the replacement part.
- Touch **Continue** to clear the message and continue printing.

## 80.xx Replace fuser

Replace the fuser using the instruction sheet that came with the replacement part.

## 80.xx Fuser missing

**1** Replace the fuser, following the instruction sheet that came with the replacement part.

**2** Touch **Continue** to clear the message and continue printing.

## 82.xx Waste toner bottle nearly full

Order a replacement waste toner bottle immediately.

**1** Replace the waste toner bottle.

For instructions on installing the waste toner bottle, from the printer control panel touch **More Information**.

**2** Touch **Continue** to clear the message and continue printing.

## 82.xx Replace waste toner bottle

**1** Replace the waste toner bottle.

For instructions on replacing the waste toner bottle, from the printer control panel touch **More Information**.

**2** Touch **Continue** to clear the message and continue printing.

## 82.xx Waste toner bottle missing

Reinsert the waste toner bottle into the printer.

## 83.xx Transfer module life warning

**1** Replace the transfer module, following the instruction sheet that came with the replacement part.

**2** Touch **Continue** to clear the message and continue printing.

## 83.xx Transfer module missing

Insert the transfer module into the printer.

## 83.xx Replace transfer module

Replace the transfer module, following the instruction sheet that came with the replacement part.

## 88.xx [color] cartridge nearly low

Order a replacement for the specified print cartridge.

## 88.xx [color] cartridge low

**1** Remove the specified cartridge.

**Warning—Potential Damage:** Be careful not to touch the photoconductor drum. Doing so may affect the print quality of future print jobs.

**2** Firmly shake the cartridge side-to-side and front-to-back several times to redistribute the toner.

**3** Reinsert the cartridge, and then touch **Continue** to clear the message and continue printing.

**Notes:**

- Repeat this procedure multiple times until the print remains faded. When the print remains faded, replace the cartridge.
- Have a new cartridge available when the current one no longer prints satisfactorily.

## 88.xx [Color] cartridge very low

The specified print cartridge is very low.

**1** For instructions on replacing a print cartridge, from the printer control panel touch **More Information**.

**2** Touch **Continue** to clear the message and continue printing.

## 88.xx [Color] cartridge critically low

The specified print cartridge is critically low.

**1** For instructions on replacing a print cartridge, from the printer control panel touch **More Information**.

**2** Touch **Continue** to clear the message and continue printing.

## 1565 Emulation error, load emulation option

The printer automatically clears the message in 30 seconds and then disables the download emulator on the firmware card.

To fix this, download the correct download emulator version from the Lexmark Web site at **www.lexmark.com**.

# Solving printing problems

## Multiple-language PDF files do not print

The PDF files may contain unavailable fonts.

**1** Open the document you want to print in Adobe Acrobat.

**2** Click the printer icon > **Advanced** > **Print as image** > **OK** > **OK**.

# Printer control panel display is blank or displays only diamonds

The printer self test failed. Turn the printer off, wait about 10 seconds, and then turn the printer 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 flash drive is supported.

# Print jobs do not print

Try one or more of the following:

### MAKE SURE THERE IS NO PROBLEM WITH YOUR PRINTER

From the printer control panel, check the status. If necessary, follow the recovery instructions.

### MAKE SURE THE PRINTER IS READY TO PRINT

Make sure `Ready` appears on the display before sending a print job.

### CHECK IF A SUPPLY IS MISSING OR NEEDS REPLACEMENT

Remove and then reinstall or replace the supply.

### CHECK IF THE STANDARD EXIT BIN IS FULL

Remove the paper stack from the standard exit bin.

### CHECK 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 the printer is connected to your computer through a USB port, then make sure you are running a supported operating system and using a compatible printer software.

### MAKE SURE THE INTERNAL PRINT SERVER IS WORKING PROPERLY

- Make sure the internal print server is properly installed and that the printer is connected to the network.
- Print a network setup page and check that the status shows `Connected`. If the status is `Not Connected`, then 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.

The printer software is available on the Lexmark Web site at **http://support.lexmark.com**.

### MAKE SURE YOU ARE USING A RECOMMENDED USB, SERIAL, OR ETHERNET CABLE

For more information, visit the Lexmark Web site at **http://support.lexmark.com**.

### MAKE SURE PRINTER CABLES ARE SECURELY CONNECTED

Check the cable connections to the printer and print server to make sure they are secure.

For more information, see the setup documentation that came with the printer.

## Confidential and other held jobs do not print

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

### PARTIAL JOB, NO JOB, OR BLANK PAGE PRINTS

The print job may contain a formatting error or invalid data.
- Delete the print job, and then print it again.
- For PDF documents, recreate the PDF and then print it again.

If you are printing from the Internet, then the printer may be reading multiple job titles as duplicates and deleting all jobs except the first one.
- For Windows users, open Print Properties. From the Print and Hold dialog, select the "Keep duplicate documents" check box under the User name text box before entering a PIN number.
- For Macintosh users, save each print job, naming each job differently, and then send the individual jobs to the printer.

### 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.

## Print job takes longer than expected

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 print job.

### TURN OFF THE PAGE PROTECT SETTING

From the home screen, navigate to:

 > **Settings** > **General Settings** > **Print Recovery** > **Page Protect** > **Off** > 

### CHANGE THE ENVIRONMENTAL SETTINGS

When using Eco-Mode or Quiet Mode settings, you may notice a reduction in performance.

# Job prints from the wrong tray or on the wrong paper

## CHECK THE PAPER TYPE AND PAPER SIZE SETTINGS
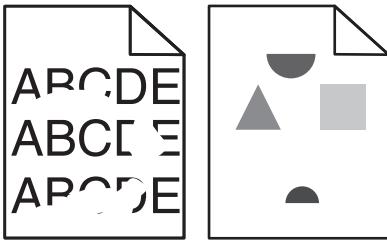
Make sure the paper type setting matches the paper loaded in the tray:

1 From the printer control panel Paper menu, check the paper type and paper size settings.

2 Before sending the job to print, specify the correct type setting:
   - For Windows users, specify the paper type from Print Properties.
   - For Macintosh users, specify the paper type from the Print dialog.

# Incorrect characters print
- Make sure the printer is not in Hex Trace mode. If **Ready Hex** appears on the display, you must exit Hex Trace mode before you can print your job. Turn the printer off and back on to exit Hex Trace mode.
- Make sure the SmartSwitch settings are set to On in the Network and USB menus.

# Tray linking does not work

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

## LOAD THE SAME SIZE AND TYPE OF PAPER
- Load the same size and type of paper in each tray to be linked.
- Move the paper guides to the correct positions for the paper size loaded in each tray.

## USE THE SAME PAPER SIZE AND PAPER TYPE SETTINGS
- Print a menu settings page and compare the settings for each tray.
- If necessary, adjust the settings from the Paper Size/Type menu.

**Note:** The standard 550-sheet tray and the multipurpose feeder do 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

### Increase the Print Timeout value

1 From the home screen, navigate to:

 ▦ > **Settings** > **General Settings** > **Timeouts** > **Print Timeout**

2 Increase the Print Timeout value, and then touch ✔.

# Solving home screen applications problems

## An application error has occurred

### Check the system log for relevant details

1 Type the printer IP address or host name in the address field of your Web browser.

 If you do not know the IP address or host name of the printer, then you can:
 - View the information on the printer control panel home screen, or in the TCP/IP section under the Networks/Ports menu.
 - Print a network setup page or menu settings page and locate the information in the TCP/IP section.

2 Click **Settings** or **Configuration**.

3 Click **Device Solutions** > **Solutions (eSF)** > **System** tab > **Log**.

4 From the Filter menu, select an application status.

5 From the Application menu, select an application, and then click **Submit**.

### Contact customer support

If you still cannot isolate the problem, then contact customer support.

# 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 AVAILABLE IN THE PRINTER DRIVER

It may be necessary to manually add the option in the printer driver to make it available for print jobs. For more information, see "Updating available options in the printer driver" on page 45.

### 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.

## Paper tray problems

Try one or more of the following:

### MAKE SURE THE PAPER IS LOADED CORRECTLY

1 Open the paper tray.

2 Check for paper jams or misfeeds.

3 Make sure the paper guides are aligned against the edges of the paper.

4 Make sure the paper tray closes properly.

### RESET THE PRINTER

Turn the printer off, wait about 10 seconds, and then turn the printer on.

### MAKE SURE THE PAPER TRAY IS INSTALLED CORRECTLY

If the paper tray is listed on the menu settings page, but paper jams when it enters or exits the tray, then it may not be properly installed. Reinstall the paper tray. For more information, see the hardware setup documentation that came with the paper tray, or go to **http://support.lexmark.com** to view the paper tray instruction sheet.

## 2,000-sheet drawer problems

### CHECK THE DRAWER CONNECTION

Make sure the 2,000-sheet drawer is properly connected to the printer.

### LOAD PAPER

If the tray is empty, then load paper in the tray or feeder

### CLEAR ANY JAMS

Open the side door of the tray or feeder, and then remove any jammed paper.

### AVOID PAPER JAMS

- Flex the paper.
- Make sure the drawer is properly installed.
- Make sure paper is loaded correctly.
- Make sure the paper stack you load does not exceed the maximum stack height indicated in the tray.
- Make sure the paper or specialty media meets specifications and is not damaged.
- Make sure the guides are positioned correctly for the paper size loaded.

## Cannot detect flash memory card

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

## Cannot detect printer hard disk

Make sure the printer hard disk is securely connected to the printer system board.

## Internal Solutions Port does not operate correctly

Try one or more of the following:

### CHECK THE INTERNAL SOLUTIONS PORT (ISP) CONNECTIONS

Make sure the ISP is securely connected to the printer system board.

### CHECK THE CABLE

Make sure you are using the correct cable and that it is securely connected to the Internal Solutions (ISP) port.

### MAKE SURE THE NETWORK SOFTWARE IS CONFIGURED CORRECTLY

For information on installing the network printing software, see the *Networking Guide* on the *Software and Documentation* CD.

## Internal print server does not operate correctly

Try one or more of the following:

### CHECK THE PRINT SERVER CONNECTIONS

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

### MAKE SURE THE NETWORK SOFTWARE IS CONFIGURED CORRECTLY

For more information on installing the network printing software, do the following:

1 Open the *Software and Documentation* CD.

2 Click **Additional**.

3 Under Publications on this CD, select **Networking Guide**.

## Memory card

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

## USB/parallel interface card does not operate correctly

### CHECK THE USB/PARALLEL INTERFACE CARD CONNECTION

Make sure the USB/parallel interface card is securely connected to the printer system board.

### CHECK THE CABLE

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 specialty media. For more information, see the chapter about paper and specialty media guidelines.

### MAKE SURE THERE IS NOT TOO MUCH PAPER IN THE PAPER TRAY

Make sure the stack of paper you load does not exceed the maximum stack height indicated in the tray or on the multipurpose feeder.

### CHECK THE PAPER GUIDES

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

### THE PAPER MAY HAVE ABSORBED MOISTURE DUE TO HIGH HUMIDITY

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

## Paper jam message remains after jam is cleared

### CHECK THE PAPER PATH

The paper path is not clear. Clear jammed paper from the entire paper path, and then touch **Continue**.

## Jammed pages are not reprinted

### TURN ON JAM RECOVERY

1 From the home screen, navigate to:

   ▦ > **Settings** > **General Settings** > **Print Recovery**

2 Touch the arrows next to `Jam Recovery` until `On` or `Auto` appears.

3 Touch ✅.

# Solving print quality problems

If the solutions here do not correct the problem, contact customer support. You may have a printer part that requires adjustment or replacement.

## Printer is printing blank pages
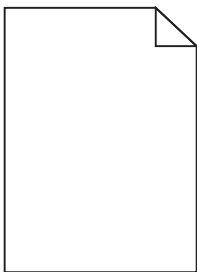


Try one or more of the following:

### MAKE SURE THERE IS NO PACKING MATERIAL LEFT ON THE TONER OR PRINT CARTRIDGE

Remove the cartridge and make sure the packing material is properly removed. Reinstall the cartridge.

#### MAKE SURE THE TONER OR PRINT CARTRIDGE IS NOT LOW ON TONER

When `88.xx [color] cartridge low` appears, make sure that toner is distributed evenly among all four cartridges:

**1** Remove the cartridge.

   **Warning—Potential Damage:** Be careful not to touch the photoconductor drum. Doing so may affect the print quality of future print jobs.

**2** Firmly shake the cartridge side-to-side and front-to-back several times to redistribute the toner.

**3** Reinsert the cartridge.

   **Note:** If print quality does not improve, then replace the cartridge of the color that is not printing.

If the problem continues, then the printer may need to be serviced. For more information, contact customer support.

## Characters have jagged or uneven edges
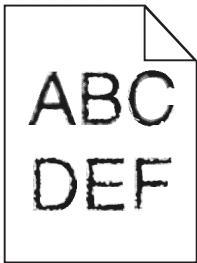


If you are using downloaded fonts, verify that the fonts are supported by the printer, the host computer, and the software program.

## Clipped images

Try one or more of the following:

#### CHECK THE GUIDES

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

#### CHECK THE PAPER SIZE SETTING

Make sure the paper size setting matches the paper loaded in the tray:

**1** From the printer control panel Paper menu, check the Paper Size setting.

**2** Before sending the job to print, specify the correct size setting:
   - For Windows users, specify the size from Print Properties.
   - For Macintosh users, specify the size from the Page Setup dialog.

## Fine horizontal lines appear on color pages

You may notice fine, horizontal lines in photographs or pages with a high concentration of color. This can occur when the printer is in Quiet Mode. To fix this, set Quiet Mode to **Off (Image/Photo)**.

# Shadow images appear on prints

Try one or more of the following:

## CHECK THE PAPER TYPE AND WEIGHT SETTINGS

Make sure the paper type and weight settings match the paper loaded in the tray or feeder:

**1** From the printer control panel Paper menu, check the Paper Type and Paper Weight settings.

**2** Before sending the print job, specify the correct paper type setting:
- For Windows users, specify the paper type from Print Properties.
- For Macintosh users, specify the paper type from the Print dialog.

## MAKE SURE THE PRINT CARTRIDGE IS NOT LOW ON TONER

When `88.xx [color] cartridge low` appears, make sure that toner is distributed evenly among all four print cartridges or whichever color has the shadow images.

**1** Remove the print cartridge.

**Warning—Potential Damage:** Be careful not to touch the photoconductor drum. Doing so may affect the print quality of future print jobs.

**2** Firmly shake the cartridge side-to-side and front-to-back several times to redistribute the toner.

**3** Reinsert the print cartridge.

**Note:** If print quality does not improve, replace the print cartridge of the color that is giving a shadow.

If the problem continues, the printer may need to be serviced. For more information, contact customer support.

# Gray background on prints
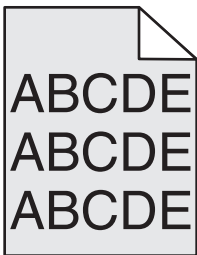
## MAKE SURE THERE IS NO WORN OR DEFECTIVE PRINT CARTRIDGE

Replace the worn or defective print cartridge.

# Incorrect margins
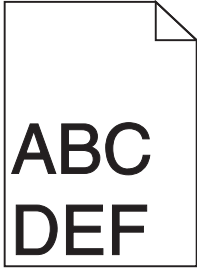
ABC
DEF

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

### CHECK THE PAPER GUIDES

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

### CHECK THE PAPER SIZE SETTING

Make sure the paper size setting matches the paper loaded in the tray:

1 From the printer control panel Paper menu, check the Paper Size setting.

2 Before sending the job to print, specify the correct size setting:
   - For Windows users, specify the size from Print Properties.
   - For Macintosh users, specify the size from the Page Setup dialog.

# Light colored line, white line, or incorrectly colored line appears on prints
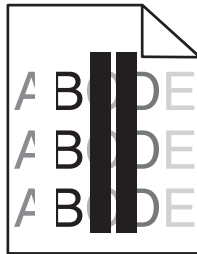
Try one or more of the following:

### MAKE SURE THERE IS NO DEFECTIVE PRINT CARTRIDGE

Replace the defective print cartridge.

### MAKE SURE THE TRANSFER BELT IS NOT DEFECTIVE

Replace the defective transfer belt. For more information, see the instruction sheet that came with the replacement part.

## Paper curl

Try one or more of the following:

### CHECK THE PAPER TYPE AND WEIGHT SETTINGS

Make sure the paper type and weight settings match the paper loaded in the tray or feeder:

1 From the printer control panel Paper menu, check the Paper Type and Paper Weight settings.

2 Before sending the print job, specify the correct paper type setting:
- For Windows users, specify the paper type from Print Properties.
- For Macintosh users, specify the paper type from the Print dialog.

### LOAD PAPER FROM A FRESH PACKAGE

Paper absorbs moisture due to high humidity. Store paper in its original wrapper until you use it.

## Print irregularities



Try one or more of the following:

### LOAD PAPER FROM A FRESH PACKAGE

The paper may have absorbed moisture due to high humidity. Store paper in its original wrapper until you use it.

### CHECK THE PAPER TYPE AND WEIGHT SETTINGS

Make sure the paper type and weight settings match the paper loaded in the tray or feeder:

1 From the printer control panel Paper menu, check the Paper Type and Paper Weight settings.

2 Before sending the print job, specify the correct paper type setting:
- For Windows users, specify the paper type from Print Properties.
- For Macintosh users, specify the paper type from the Print dialog.

### AVOID TEXTURED PAPER WITH ROUGH FINISHES

### MAKE SURE THERE IS NO DEFECTIVE PRINT CARTRIDGE

Replace the worn or defective print cartridge.

### MAKE SURE THE TRANSFER BELT IS NOT DEFECTIVE

Replace the defective transfer belt. For more information, see the instruction sheet that came with the replacement part.

### MAKE SURE THE FUSER IS NOT DEFECTIVE

Replace the defective fuser. For more information, see the instruction sheet that came with the replacement part.

## Print is too dark
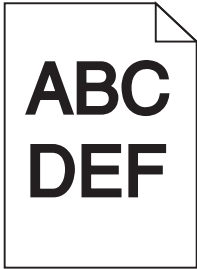
ABC
DEF

Try one or more of the following:

### LOAD PAPER FROM A FRESH PACKAGE

The paper may have absorbed moisture due to high humidity. Store paper in its original wrapper until you use it.

### AVOID TEXTURED PAPER WITH ROUGH FINISHES

### CHECK THE PAPER TYPE SETTING

Make sure the Paper Type setting matches the paper loaded in the tray or feeder:
- From the printer control panel Paper menu, check the Paper Type setting.
- For Windows users, check this setting from Print Properties.
- For Macintosh users, check this setting from the Print dialog.

### MAKE SURE THERE IS NO DEFECTIVE PRINT CARTRIDGE

Replace the defective print cartridge.

## Print is too light
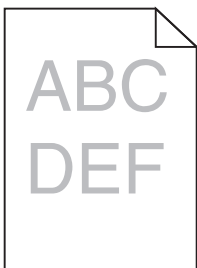
ABC
DEF

Try one or more of the following:

### LOAD PAPER FROM A FRESH PACKAGE

The paper may have absorbed moisture from high humidity. Store paper in its original wrapper until you use it.

### AVOID TEXTURED PAPER WITH ROUGH FINISHES

### CHECK THE PAPER TYPE SETTING

Make sure the Paper Type setting matches the paper loaded in the tray or feeder:
- From the printer control panel Paper menu, check the Paper Type setting.
- For Windows users, check this setting from Print Properties.
- For Macintosh users, check this setting from the Print dialog.

### MAKE SURE THE PRINT CARTRIDGE IS NOT LOW ON TONER

When `88.xx [color] cartridge low` appears, make sure the toner is distributed evenly within the print cartridge.

**1** Remove the print cartridge.

**Warning—Potential Damage:** Be careful not to touch the photoconductor drum. Doing so may affect the print quality of future print jobs.

**2** Firmly shake the cartridge side-to-side and front-to-back several times to redistribute the toner.

**3** Reinsert the print cartridge.

**Note:** If print quality does not improve, then replace the print cartridge.

If the problem continues, then the printer may need to be serviced. For more information, contact customer support.

### MAKE SURE THERE IS NO DEFECTIVE PRINT CARTRIDGE

Replace the defective print cartridge.

## Repeating defects appear on prints
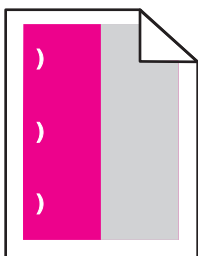


Try one or more of the following:

### Replace the print cartridge

Replace the print cartridge of the color with the repeating defect, if the print defects occur in the following instances:

- in every 37.7 mm (1.48 in.) of the page
- in every 41.6 mm (1.64 in.) of the page
- in every 42.7 mm (1.68 in.) of the page
- in every 94.3 mm (3.71 in.) of the page

### Replace the fuser

Replace the fuser if print defects occur in the following instances:

- in every 95.0 mm (3.74 in.) of the page
- in every 146.7 mm (5.78 in.) of the page

## Skewed print

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

### Check the paper guides

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

- Make sure the guides are not too far from the paper stack.
- Make sure the guides are not pressing too lightly against the paper stack.

### Check the paper

Make sure you are using paper that meets the printer specifications.

## Solid color or black pages appear on prints
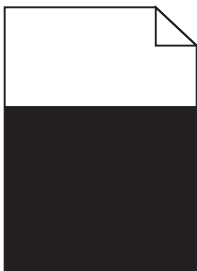


### Make sure the print cartridges are installed correctly, are not defective and not low on toner

- Remove the print cartridges.

  **Warning—Potential Damage:** Be careful not to touch the photoconductor drum. Doing so may affect the print quality of future print jobs.

- Reinsert the print cartridges.

  **Note:** If the quality does not improve, replace the print cartridges.

- If the problem continues, the printer may need to be serviced. For more information, contact customer support.

# Black or white streaks appear on transparencies or paper
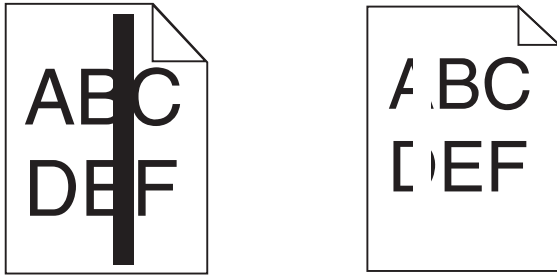
Try one or more of the following:

### ENSURE THAT THE FILL PATTERN IS CORRECT

If the fill pattern is incorrect, choose a different fill pattern from your software program.

### CHECK THE PAPER TYPE

- Use only the recommended transparencies.
- Ensure that the Paper Type setting matches what is loaded in the tray or feeder.
- Ensure that the Paper Texture setting is correct for the type of paper or specialty media loaded in the tray or feeder.

### MAKE SURE THE PRINT CARTRIDGE IS NOT LOW ON TONER

When `88.xx [color] cartridge low` appears, make sure the toner is distributed evenly within the print cartridge:

**1** Remove the print cartridge.

**Warning—Potential Damage:** Be careful not to touch the photoconductor drum. Doing so may affect the print quality of future print jobs.

**2** Firmly shake the cartridge side-to-side and front-to-back several times to redistribute the toner.

**3** Reinsert the print cartridge.

If the problem continues, the printer may need to be serviced. For more information, contact Customer Support.

# Streaked horizontal lines appear on prints
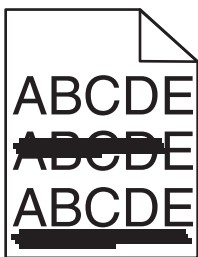
Try one or more of the following:

### SELECT ANOTHER TRAY OR FEEDER

- From the printer control panel Paper Menu, select Default Source.
- For Windows users, select the paper source from Print Properties.
- For Macintosh users, select the paper source from the Print dialog and pop-up menus.

### MAKE SURE THERE IS NO WORN, DEFECTIVE, OR EMPTY PRINT CARTRIDGE

Replace the worn, defective, or empty print cartridge.

## Toner fog or background shading appears on a page

Try one or more of the following:

### MAKE SURE PRINT CARTRIDGES ARE INSTALLED CORRECTLY AND ARE NOT DEFECTIVE

Reinstall or replace the print cartridge.

### MAKE SURE THE TRANSFER BELT IS NOT WORN OR DEFECTIVE

Replace the transfer belt. For more information, see the instruction sheet that came with the replacement part.

### MAKE SURE THE FUSER IS NOT WORN OR DEFECTIVE

Replace the fuser. For more information, see the instruction sheet that came with the replacement part.

### MAKE SURE THERE IS NO TONER IN THE PAPER PATH

Clean any visible toner from the paper path. If the problem persists, then contact customer support.

### RECALIBRATE THE PRINTER

Perform color adjust from the printer control panel Quality menu.

### CHECK THE SOFTWARE PROGRAM OR APPLICATION

The software program or application may have specified an off-white background.

## Toner rubs off
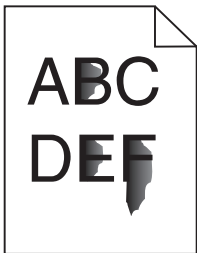


Try one or more of the following:

#### CHECK THE PAPER TYPE AND WEIGHT SETTINGS

Make sure the paper type and weight settings match the paper loaded in the tray or feeder:

1 From the printer control panel Paper menu, check the Paper Type and Paper Weight settings. Change the Paper Weight setting from Normal to Heavy.

2 Before sending the print job, specify the correct paper type setting:
   - For Windows users, specify the paper type from Print Properties.
   - For Macintosh users, specify the paper type from the Print dialog.

#### CHECK THE PAPER TEXTURE SETTING

From the printer control panel Paper menu, make sure the Paper Texture setting matches the paper loaded in the tray or feeder. If necessary, change the Paper Texture setting from Normal to Rough.

#### MAKE SURE THE FUSER IS NOT WORN OR DEFECTIVE

Replace the worn or defective fuser. For more information, see the instruction sheet that came with the replacement part.

## Transparency print quality is poor

Try one or more of the following:

#### CHECK THE TRANSPARENCIES

Use only transparencies that meet the printer specifications.

#### CHECK THE PAPER TYPE SETTING

Make sure the paper type setting is set to Transparency:

1 From the printer control panel Paper menu, check the Paper Type setting.

2 Before sending the job to print, specify the correct type setting:
   - For Windows users, specify the type from Print Properties.
   - For Macintosh users, specify the type from the Print dialog.

## Uneven print density
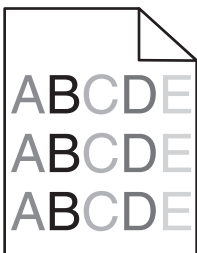
**MAKE SURE THERE IS NO DEFECTIVE OR WORN PRINT CARTRIDGE**

Replace the worn or defective print cartridge.

# 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.

**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<br>RGB Text<br>RGB Graphics | • **Vivid**—Produces brighter, more saturated colors and may be applied to all incoming color formats.<br>• **sRGB Display**—Produces an output that approximates the colors displayed on a computer monitor. Black toner usage is optimized for printing photographs.<br>• **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.<br>• **sRGB Vivid**—Provides an increased color saturation for the sRGB Display color correction. Black usage is optimized for printing business graphics.<br>• **Off**—No color correction is implemented. |
| CMYK Image<br>CMYK Text<br>CMYK Graphics | • **US CMYK**—Applies color correction to approximate the SWOP (Specifications for Web Offset Publishing) color output.<br>• **Euro CMYK**—Applies color correction to approximated EuroScale color output.<br>• **Vivid CMYK**—Increases the color saturation of the US CMYK color correction setting.<br>• **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** Type the printer IP address or host name in the address field of your Web browser.

   **Note:** If you do not know the IP address or host name of the printer, then you can:

   - View the information on the printer control panel home screen, or in the TCP/IP section under the Networks/Ports menu.
   - Print a network setup page or menu settings page and locate the information in the TCP/IP section.

**2** Click **Configuration** > **Color Samples** > **Detailed Options**.

**3** Select a color conversion table.

**4** Enter the RGB or CMYK color number.

**5** Enter an increment value from 1–255.

   **Note:** The closer the value is to 1, the narrower the color sample range will appear.

**6** Click **Print**.

# Embedded Web Server does not open

Try one or more of the following:

## CHECK THE NETWORK CONNECTION

Make sure the printer and computer are turned on and connected to the same network.

## CHECK THE ADDRESS ENTERED IN THE WEB BROWSER

- Depending on the network settings, you may need to type "`https://`" instead of "`http://`" before the printer IP address to access the Embedded Web Server. For more information, contact your system support person.
- Make sure printer IP address is correct.

## TEMPORARILY DISABLE WEB PROXY SERVERS

Proxy servers may block or restrict you from accessing certain Web sites including the Embedded Web Server. For more information, contact your system support person.

# 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 or regions, visit the Lexmark Web site at **http://support.lexmark.com**.

# Notices

## Product information

Product name:

Lexmark C792e, C792de, C792dte, C792dhe

Machine type:

5062

Model(s):

210, 230, 235

## Edition notice

January 2011

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PCL® is a registered trademark of the Hewlett-Packard Company. PCL is Hewlett-Packard Company's designation of a set of printer commands (language) and functions included in its printer products. This printer is intended to be compatible with the PCL language. This means the printer recognizes PCL commands used in various application programs, and that the printer emulates the functions corresponding to the commands.

The following terms are trademarks or registered trademarks of these companies:

| | |
|---|---|
| Albertus | The Monotype Corporation plc |
| Antique Olive | Monsieur Marcel OLIVE |
| Apple-Chancery | Apple Computer, Inc. |
| Arial | The Monotype Corporation plc |
| CG Times | Based on Times New Roman under license from The Monotype Corporation plc, is a product of Agfa Corporation |
| Chicago | Apple Computer, Inc. |
| Clarendon | Linotype-Hell AG and/or its subsidiaries |
| Eurostile | Nebiolo |
| Geneva | Apple Computer, Inc. |
| GillSans | The Monotype Corporation plc |
| Helvetica | Linotype-Hell AG and/or its subsidiaries |
| Hoefler | Jonathan Hoefler Type Foundry |
| ITC Avant Garde Gothic | International Typeface Corporation |
| ITC Bookman | International Typeface Corporation |
| ITC Mona Lisa | International Typeface Corporation |
| ITC Zapf Chancery | International Typeface Corporation |
| Joanna | The Monotype Corporation plc |
| Marigold | Arthur Baker |
| Monaco | Apple Computer, Inc. |
| New York | Apple Computer, Inc. |
| Oxford | Arthur Baker |
| Palatino | Linotype-Hell AG and/or its subsidiaries |

| Stempel Garamond | Linotype-Hell AG and/or its subsidiaries |
|---|---|
| Taffy | Agfa Corporation |
| Times New Roman | The Monotype Corporation plc |
| Univers | Linotype-Hell AG and/or its subsidiaries |

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## Federal Communications Commission (FCC) compliance information statement

This product has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The FCC Class A limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

The manufacturer is not responsible for any radio or television interference caused by using other than recommended cables or by unauthorized changes or modifications to this equipment. Unauthorized changes or modifications could void the user's authority to operate this equipment.

**Note:** To assure compliance with FCC regulations on electromagnetic interference for a Class A computing device, use a properly shielded and grounded cable such as Lexmark part number 1021231 for parallel attach or 1021294 for USB attach. Use of a substitute cable not properly shielded and grounded may result in a violation of FCC regulations.

## Modular component notice

This product may contain the following modular component(s):

Lexmark regulatory type/model LEX-M01-003; FCC ID: IYLM01003; IC: 2376A-M01003

## Licensing notices

The following documents can be viewed from the installation software CD.

| Directory | File |
|---|---|
| CD:\LEGAL | FW_License.pdf<br>mDNS.tar.gz<br>Expat.txt<br>Inst_lib.txt<br>Instgui.txt<br>Instgui.zip |

# 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 | 53 color, 52 mono |
| Ready | 30 |

Values are subject to change. See **www.lexmark.com** for current values.

# 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.

# Static sensitivity notice
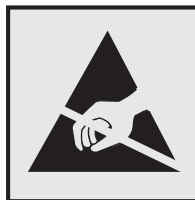


This symbol identifies static-sensitive parts. Do not touch in the areas near these symbols without first touching the metal frame of the printer.

# ENERGY STAR

Any Lexmark product bearing the ENERGY STAR emblem on the product or on a start-up screen is certified to comply with Environmental Protection Agency (EPA) ENERGY STAR requirements as configured when shipped by Lexmark.

# Temperature information

| Ambient temperature | 15.6 to 32.2° C (60 to 90° F) |
| --- | --- |
| Shipping and storage temperature | -40° to  40° C (104° F) |

# Laser notice

This product contains a Class I (1) laser producing invisible laser radiation. 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) AlGaAs dual beam laser enclosed in a non-serviceable printhead assembly operating in the wavelength of 775-800 nanometers. The laser system and printer are designed so there is never any human access to laser radiation exceeding Class I levels during normal operation, user maintenance, or prescribed service condition.

# Laser advisory label

A laser notice label may be affixed to this printer as shown:

DANGER - Invisible laser radiation when cartridges are removed and interlock defeated. Avoid exposure to laser beam.
Perigo - Emissão invisível de laser quando os cartuchos são removidos e a trava aberta.  Evite exposição ao feixe.
Opasnost – Nevidljivo lasersko zračenje kada su kasete uklonjene i poništena sigurnosna veza.  Izbjegavati izlaganje zracima.
Pozor  Nebezpečí výskytu neviditelného laserového záření při odstranění kazet a odblokování pojistky. Nevystavujte se paprskům.
Fare - Usynlig laserstråling, når tonerkassetterne fjernes og aflåsning ophæves. Undgå at komme i kontakt med strålen.
Pas op! - Onzichtbare laserstraling als cartridges worden verwijderd en vergrendeling open is. Voorkom blootstelling aan de stralen.
Danger - Radiations invisibles lors du retrait des cartouches et du déverouillage des loquets. Eviter toute exposition au rayon laser.
Vaara - Näkymätöntä lasersäteilyä on varottava, kun värikasetit on poistettu ja lukitus on auki.  Vältä säteelle altistumista.
Gefahr – Unsichtbare Laserstrahlung beim Herausnehmen von Druckkassetten und offener Sicherheitssperre. Laserstrahl meiden!
Κίνδυνος - Αόρατη ακτινοβολία λέιζερ όταν αφαιρούνται οι κασέτες και εξουδετερώνεται η ενδασφάλεια. Αποφύγετε την έκθεση στη δέσμη των ακτίνων.
Figyelem! A kazetták kivételekor láthatatlan lézersugárzás léphet fel, ha a biztonsági kapcsoló nem működik. Kerüljük el a lézersugarat.
Pericolo - Emissione di radiazioni laser durante la rimozione delle cartucce e del blocco. Evitare l'esposizione ai raggi
Fare - Usynlig laserstråling når kassetter tas ut og sperren er satt ut av spill. Unngå eksponering.
Niebezpieczeństwo - niewidoczne promieniowanie laserowe po wyjęciu kasety i wyłączeniu blokady. Unikać ekspozycji na wiązkę.
Опасно! При снятых картриджах и нарушении фиксации невидимое глазу лазерное излучение!  Избегайте воздействия луча.
Pozor - Nebezpečenstvo neviditeľného laserového žiarenia  pri odobratých kaziet ch a odblokovanej poistke. Nevystavujte sa lúčom.
Peligro: Se producen radiaciones láser invisibles al extraer los cartuchos con el interbloqueo desactivado. Evite la exposición al haz de láser.
Varning - Osynlig laserstrålning när kassetterna är borttagna och spärren avaktiverad. Undvik att utsätta dig för strålen.
危险 – 当鼓粉盒被取出并且互锁失去作用时有看不见的激光辐射，请避免暴露在激光光束下。
危险 - 移除碳粉匣與安全連鎖開關失效時會產生看不見的雷射 輻射 · 請避免曝露在雷射光束下 ·
危険:カートリッジが取外され、内部ロックが無効になると、見えないレーザー光が放射します。光線に当らないようにして下さい。

# 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) |
| --- | --- | --- |
| Active | The product is generating hard-copy output from electronic inputs. | 850 W |
| Idle | The product is waiting for a print job. | 50 W |
| Sleep Mode | The product is in a high-level energy-saving mode. | 10 W |

| Mode | Description | Power consumption (Watts) |
|---|---|---|
| Hibernate | The product is in a low-level energy-saving mode. | 0.55 W |
| Off | The product is plugged into a wall outlet, but the power switch is turned off. | 0 W |

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.

## Sleep Mode

This product is designed with an energy-saving mode called *Sleep Mode*. The Sleep Mode saves energy by lowering power consumption during extended periods of inactivity. The Sleep Mode is automatically engaged after this product is not used for a specified period of time, called the Sleep Mode Timeout.

| | |
|---|---|
| Factory default Sleep Mode Timeout for this product (in minutes): | 30 |

By using the configuration menus, the Sleep Mode Timeout can be modified between 1 minute and 240 minutes. Setting the Sleep Mode Timeout to a low value reduces energy consumption, but may increase the response time of the product. Setting the Sleep Mode 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.

# 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.

# European Community (EC) directives conformity

This product is in conformity with the protection requirements of EC Council directives 2004/108/EC and 2006/95/EC on the approximation and harmonization of the laws of the Member States relating to electromagnetic compatibility and safety of electrical equipment designed for use within certain voltage limits.

The manufacturer of this product is: Lexmark International, Inc., 740 West New Circle Road, Lexington, KY, 40550 USA. The authorized representative is: Lexmark International Technology Hungária Kft., 8 Lechner Ödön fasor, Millennium Tower III, 1095 Budapest HUNGARY, A declaration of conformity to the requirements of the Directives is available upon request from the Authorized Representative.

This product satisfies the Class A limits of EN 55022 and safety requirements of EN 60950.

# Radio interference notice

**Warning**

This is a product that complies with the emission requirements of EN55022 Class A limits and immunity requirements of EN55024. This product is not intended to be used in residential/domestic environments.

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.

# Regulatory notices for wireless products

This section contains the following regulatory information pertaining to wireless products that contain transmitters, for example, but not limited to, wireless network cards or proximity card readers.

# Exposure to radio frequency radiation

The radiated output power of this device is far below the radio frequency exposure limits of the FCC and other regulatory agencies. 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 and other regulatory agencies.

# 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.

## Notice to users in the European Union

This product is in conformity with the protection requirements of EC Council directives 2004/108/EC, 2006/95/EC and 2005/32/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 the ecodesign of energy-using products.

Compliance is indicated by the CE marking.

$$\mathsf{C}\mathsf{E}$$

The manufacturer of this product is: Lexmark International, Inc., 740 West New Circle Road, Lexington, KY, 40550 USA. The authorized representative is: Lexmark International Technology Hungária Kft., 8 Lechner Ödön fasor, Millennium Tower III, 1095 Budapest HUNGARY, A declaration of conformity to the requirements of the Directives is available upon request from the Authorized Representative.

This product satisfies the Class A limits of EN 55022 and safety requirements of EN 60950.

Products equipped with 2.4GHz Wireless LAN option are in conformity with the protection requirements of EC Council directives 2004/108/EC, 2006/95/EC, and 1999/5/EC on the approximation and harmonization of the laws of the Member States relating to electromagnetic compatibility, safety of electrical equipment designed for use within certain voltage limits and on radio equipment and telecommunications terminal equipment.

Compliance is indicated by the CE marking.

$$\mathsf{C}\mathsf{E}\,\textcircled{\small !}$$

Operation is allowed in all EU and EFTA countries, but is restricted to indoor use only.

The manufacturer of this product is: Lexmark International, Inc., 740 West New Circle Road, Lexington, KY, 40550 USA. The authorized representative is: Lexmark International Technology Hungária Kft., 8 Lechner Ödön fasor, Millennium

Tower III, 1095 Budapest HUNGARY, A declaration of conformity to the requirements of the Directives is available upon request from the Authorized Representative.

This product may be used in the countries indicated in the table below.

| AT | BE | BG | CH | CY | CZ | DE | DK | EE |
|----|----|----|----|----|----|----|----|----|
| EL | ES | FI | FR | HR | HU | IE | IS | IT |
| LI | LT | LU | LV | MT | NL | NO | PL | PT |
| RO | SE | SI | SK | TR | UK |  |  |  |

| | |
|---|---|
| Česky | Společnost Lexmark International, Inc. tímto prohlašuje, že výrobek tento výrobek je ve shodě se základními požadavky a dalšími příslušnými ustanoveními směrnice 1999/5/ES. |
| Dansk | Lexmark International, Inc. erklærer herved, at dette produkt overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF. |
| Deutsch | Hiermit erklärt Lexmark International, Inc., dass sich das Gerät dieses Gerät in Übereinstimmung mit den grundlegenden Anforderungen und den übrigen einschlägigen Bestimmungen der Richtlinie 1999/5/EG befindet. |
| Ελληνική | ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ Η LEXMARK INTERNATIONAL, INC. ΔΗΛΩΝΕΙ ΟΤΙ ΑΥΤΟ ΤΟ ΠΡΟΪΟΝ ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 1999/5/ΕΚ. |
| English | Hereby, Lexmark International, Inc., declares that this type of equipment is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. |
| Español | Por medio de la presente, Lexmark International, Inc. declara que este producto cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE. |
| Eesti | Käesolevaga kinnitab Lexmark International, Inc., et seade see toode vastab direktiivi 1999/5/EÜ põhinõuetele ja nimetatud direktiivist tulenevatele muudele asjakohastele sätetele. |
| Suomi | Lexmark International, Inc. vakuuttaa täten, että tämä tuote on direktiivin 1999/5/EY oleellisten vaatimusten ja muiden sitä koskevien direktiivin ehtojen mukainen. |
| Français | Par la présente, Lexmark International, Inc. déclare que l'appareil ce produit est conforme aux exigences fondamentales et autres dispositions pertinentes de la directive 1999/5/CE. |
| Magyar | Alulírott, Lexmark International, Inc. nyilatkozom, hogy a termék megfelel a vonatkozó alapvetõ követelményeknek és az 1999/5/EC irányelv egyéb elõírásainak. |
| Íslenska | Hér með lýsir Lexmark International, Inc. yfir því að þessi vara er í samræmi við grunnkröfur og aðrar kröfur, sem gerðar eru í tilskipun 1999/5/EC. |
| Italiano | Con la presente Lexmark International, Inc. dichiara che questo questo prodotto è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE. |
| Latviski | Ar šo Lexmark International, Inc. deklarē, ka šis izstrādājums atbilst Direktīvas 1999/5/EK būtiskajām prasībām un citiem ar to saistītajiem noteikumiem. |
| Lietuvių | Šiuo Lexmark International, Inc. deklaruoja, kad šis produktas atitinka esminius reikalavimus ir kitas 1999/5/EB direktyvos nuostatas. |
| Malti | Bil-preżenti, Lexmark International, Inc., jiddikjara li dan il-prodott huwa konformi mal-ħtiġijiet essenzjali u ma dispożizzjonijiet oħrajn relevanti li jinsabu fid-Direttiva 1999/5/KE. |
| Nederlands | Hierbij verklaart Lexmark International, Inc. dat het toestel dit product in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG. |

| Norsk | Lexmark International, Inc. erklærer herved at dette produktet er i samsvar med de grunnleggende krav og øvrige relevante krav i direktiv 1999/5/EF. |
|---|---|
| Polski | Niniejszym Lexmark International, Inc. oświadcza, że niniejszy produkt jest zgodny z zasadniczymi wymogami oraz pozostałymi stosownymi postanowieniami Dyrektywy 1999/5/EC. |
| Português | A Lexmark International Inc. declara que este este produto está conforme com os requisitos essenciais e outras disposições da Diretiva 1999/5/CE. |
| Slovensky | Lexmark International, Inc. týmto vyhlasuje, že tento produkt spĺňa základné požiadavky a všetky príslušné ustanovenia smernice 1999/5/ES. |
| Slovensko | Lexmark International, Inc. izjavlja, da je ta izdelek v skladu z bistvenimi zahtevami in ostalimi relevantnimi določili direktive 1999/5/ES. |
| Svenska | Härmed intygar Lexmark International, Inc. att denna produkt står i överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EG. |

# Statement of Limited Warranty

Lexmark C792e, C792de, C792dte, C792dhe

## Lexmark International, Inc., Lexington, KY

This limited warranty applies to the United States and Canada. For customers outside the U.S., refer to the country-specific warranty information that came with your product.

This limited warranty applies to this product only if it was originally purchased for your use, and not for resale, from Lexmark or a Lexmark Remarketer, referred to in this statement as "Remarketer."

## Limited warranty

Lexmark warrants that this product:

—Is manufactured from new parts, or new and serviceable used parts, which perform like new parts

—Is, during normal use, free from defects in material and workmanship

If this product does not function as warranted during the warranty period, contact a Remarketer or Lexmark for repair or replacement (at Lexmark's option).

If this product is a feature or option, this statement applies only when that feature or option is used with the product for which it was intended. To obtain warranty service, you may be required to present the feature or option with the product.

If you transfer this product to another user, warranty service under the terms of this statement is available to that user for the remainder of the warranty period. You should transfer proof of original purchase and this statement to that user.

## Limited warranty service

The warranty period starts on the date of original purchase as shown on the purchase receipt and ends 12 months later provided that the warranty period for any supplies and for any maintenance items included with the printer shall end earlier if it, or its original contents, are substantially used up, depleted, or consumed.

To obtain warranty service you may be required to present proof of original purchase. You may be required to deliver your product to the Remarketer or Lexmark, or ship it prepaid and suitably packaged to a Lexmark designated location. You are responsible for loss of, or damage to, a product in transit to the Remarketer or the Lexmark designated location.

When warranty service involves the exchange of a product or part, the item replaced becomes the property of the Remarketer or Lexmark. The replacement may be a new or repaired item.

The replacement item assumes the remaining warranty period of the original product.

Replacement is not available to you if the product you present for exchange is defaced, altered, in need of a repair not included in warranty service, damaged beyond repair, or if the product is not free of all legal obligations, restrictions, liens, and encumbrances.

Before you present this product for warranty service, remove all print cartridges, programs, data, and removable storage media (unless directed otherwise by Lexmark).

For further explanation of your warranty alternatives and the nearest Lexmark authorized servicer in your area contact Lexmark on the World Wide Web at **http://support.lexmark.com**.

Remote technical support is provided for this product throughout its warranty period. For products no longer covered by a Lexmark warranty, technical support may not be available or only be available for a fee.

## Extent of limited warranty

Lexmark does not warrant uninterrupted or error-free operation of any product or the durability or longevity of prints produced by any product.

Warranty service does not include repair of failures caused by:

—Modification or unauthorized attachments

—Accidents, misuse, abuse or use inconsistent with Lexmark user's guides, manuals, instructions or guidance

—Unsuitable physical or operating environment

—Maintenance by anyone other than Lexmark or a Lexmark authorized servicer

—Operation of a product beyond the limit of its duty cycle

—Use of printing media outside of Lexmark specifications

—Refurbishment, repair, refilling or remanufacture by a third party of products, supplies or parts

—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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