



CS720, CS725, CS725R, CS727, CS728 Printers

User's Guide

June 2019

www.lexmark.com

Machine type(s):

5028

Model(s):

135, 1A5, 630, 6A0

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Safety information






Conventions

Note: A *note* identifies information that could help you.








Warning: A *warning* identifies something that could damage the product hardware or software.










CAUTION: A *caution* indicates a potentially hazardous situation that could injure you.


Different types of caution statements include:


-  **CAUTION—POTENTIAL INJURY:** Indicates a risk of injury.
-  **CAUTION—SHOCK HAZARD:** Indicates a risk of electrical shock.
-  **CAUTION—HOT SURFACE:** Indicates a risk of burn if touched.
-  **CAUTION—TIPPING HAZARD:** Indicates a crush hazard.
-  **CAUTION—PINCH HAZARD:** Indicates a risk of being caught between moving parts.

Product statements

-  **CAUTION—POTENTIAL INJURY:** To avoid the risk of fire or electrical shock, connect the power cord to an appropriately rated and properly grounded electrical outlet that is near the product and easily accessible.
-  **CAUTION—POTENTIAL INJURY:** To avoid the risk of fire or electrical shock, use only the power cord provided with this product or the manufacturer's authorized replacement.
-  **CAUTION—POTENTIAL INJURY:** Do not use this product with extension cords, multioutlet power strips, multioutlet extenders, or UPS devices. The power capacity of these types of accessories can be easily overloaded by a laser printer and may result in a risk of fire, property damage, or poor printer performance.
-  **CAUTION—POTENTIAL INJURY:** Only a Lexmark Inline Surge Protector that is properly connected between the printer and the power cord provided with the printer may be used with this product. The use of non-Lexmark surge protection devices may result in a risk of fire, property damage, or poor printer performance.
-  **CAUTION—SHOCK HAZARD:** To avoid the risk of electrical shock, do not place or use this product near water or wet locations.
-  **CAUTION—SHOCK HAZARD:** To avoid the risk of electrical shock, do not set up this product or make any electrical or cabling connections, such as the power cord, fax feature, or telephone, during a lightning storm.
-  **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.

-  **CAUTION—SHOCK HAZARD:** To avoid the risk of electrical shock, make sure that all external connections (such as Ethernet and telephone system connections) are properly installed in their marked plug-in ports.
-  **CAUTION—SHOCK HAZARD:** To avoid the risk of electrical shock, if you are accessing the controller 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 electrical 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:** To avoid the risk of electrical shock when cleaning the exterior of the printer, unplug the power cord from the electrical outlet and disconnect all cables from the printer before proceeding.
-  **CAUTION—POTENTIAL INJURY:** If the printer weight is greater than 20 kg (44 lb), then it may require two or more people to lift it safely.
-  **CAUTION—POTENTIAL INJURY:** When moving the printer, follow these guidelines to avoid personal injury or printer damage:
- Make sure that all doors and trays are closed.
 - Turn off the printer, and then unplug the power cord from the electrical outlet.
 - Disconnect all cords and cables from the printer.
 - If the printer has separate floor-standing optional trays or output options attached to it, then disconnect them before moving the printer.
 - If the printer has a caster base, then carefully roll it to the new location. Use caution when passing over thresholds and breaks in flooring.
 - If the printer does not have a caster base but is configured with optional trays or output options, then remove the output options and lift the printer off the trays. Do not try to lift the printer and any options at the same time.
 - Always use the handholds on the printer to lift it.
 - 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 hardware options must have a surface able to support the dimensions of the options.
 - Keep the printer in an upright position.
 - Avoid severe jarring movements.
 - Make sure that your fingers are not under the printer when you set it down.
 - Make sure that there is adequate clearance around the printer.
-  **CAUTION—TIPPING HAZARD:** Installing one or more options on your printer or MFP may require a caster base, furniture, or other feature to prevent instability causing possible injury. For more information on supported configurations, see www.lexmark.com/multifunctionprinters.
-  **CAUTION—TIPPING HAZARD:** To reduce the risk of equipment instability, load each tray separately. Keep all other trays closed until needed.
-  **CAUTION—HOT SURFACE:** The inside of the printer might be hot. To reduce the risk of injury from a hot component, allow the surface to cool before touching it.
-  **CAUTION—PINCH HAZARD:** To avoid the risk of a pinch injury, use caution in areas marked with this label. Pinch injuries may occur around moving parts, such as gears, doors, trays, and covers.

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

 **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.

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.

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


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

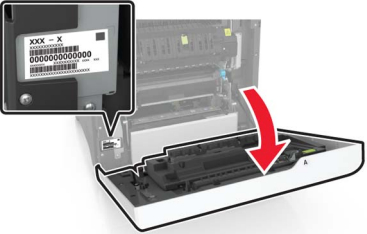
This product may produce small amounts of ozone during normal operation, and may be equipped with a filter designed to limit ozone concentrations to levels well below the recommended exposure limits. To avoid high ozone concentration levels during extensive usage, install this product in a well-ventilated area and replace the ozone and exhaust filters if instructed to do so in the product maintenance instructions. If there are no references to filters in the product maintenance instructions, then there are no filters requiring replacement for this product.

SAVE THESE INSTRUCTIONS.

Learning about the printer

Finding information about the printer


What are you looking for?	Find it here
Initial setup instructions: <ul style="list-style-type: none"> • Connecting the printer • Installing the printer software 	See the setup documentation that came with the printer or go to http://support.lexmark.com .
More setup and instructions for using the printer: <ul style="list-style-type: none"> • Selecting and storing paper and specialty media • Loading paper • Configuring printer settings • Viewing and printing documents and photos • Setting up and using the printer software • Configuring the printer on a network • Caring for and maintaining the printer • Troubleshooting and solving problems 	<i>Information Center</i> —Go to http://infoserve.lexmark.com . <i>Help Menu Pages</i> —Access the guides on the printer firmware or go to http://support.lexmark.com . <i>Touch Screen Guide</i> —Go to http://support.lexmark.com . Product videos—Go to http://infoserve.lexmark.com/idv/ .
Information on setting up and configuring the accessibility features of your printer	<i>Lexmark Accessibility Guide</i> —Go to http://support.lexmark.com .
Help using the printer software	Help for Microsoft® Windows® or Macintosh operating systems—Open a printer software program or application, and then click Help . Click  to view context-sensitive information. Notes: <ul style="list-style-type: none"> • Help is automatically installed with the printer software. • Depending on the operating system, the printer software is located in the printer program folder or on the desktop.


What are you looking for?	Find it here
<p>The latest supplemental information, updates, and customer support:</p> <ul style="list-style-type: none"> • Documentation • Driver downloads • Live chat support • E-mail support • Voice support 	<p>Go to http://support.lexmark.com.</p> <p>Note: Select your country or region, and then select your product to view the appropriate support site.</p> <p>Support contact information for your country or region can be found on the website or on the printed warranty that came with the printer.</p> <p>Have the following information ready when you contact customer support:</p> <ul style="list-style-type: none"> • Place and date of purchase • Machine type and serial number 
<ul style="list-style-type: none"> • Safety information • Regulatory information • Warranty information • Environmental information 	<p>Warranty information varies by country or region:</p> <ul style="list-style-type: none"> • In the U.S.—See the Statement of Limited Warranty included with the printer, or go to http://support.lexmark.com. • In other countries and regions—See the printed warranty that came with the printer. <p><i>Product Information Guide</i>—See the documentation that came with the printer or go to http://support.lexmark.com.</p>

Selecting a location for the printer

When selecting a location for the printer, leave enough room to open trays, covers, and doors and to install hardware options.

- Set up the printer near an electrical outlet.

 **CAUTION—POTENTIAL INJURY:** To avoid the risk of fire or electrical shock, connect the power cord to an appropriately rated and properly grounded electrical outlet that is near the product and easily accessible.

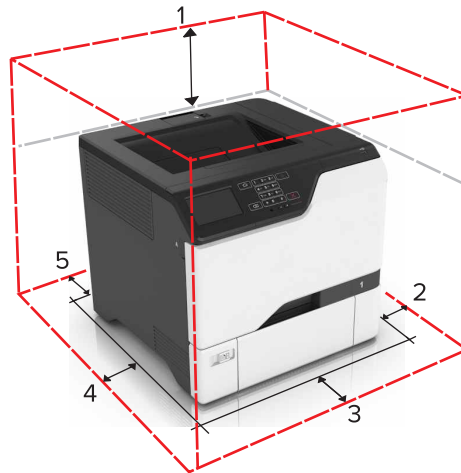
 **CAUTION—SHOCK HAZARD:** To avoid the risk of electrical shock, do not place or use this product near water or wet locations.

- Make sure that 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:
 - Clean, dry, and free of dust.
 - Away from stray staples and paper clips.
 - Away from the direct airflow of air conditioners, heaters, or ventilators.
 - Free from direct sunlight and humidity extremes.
- Observe the recommended temperatures and avoid fluctuations:

Ambient temperature	10 to 32.2°C (50 to 90°F)
Storage temperature	-40 to 43°C (-40 to 110°F)

- Allow the following recommended amount of space around the printer for proper ventilation:



1	Top	178 mm (7 in.)
2	Right side	127 mm (5 in.)
3	Front	508 mm (20 in.)
4	Left side	127 mm (5 in.)
5	Rear	76 mm (3 in.)

Printer configurations

CAUTION—TIPPING HAZARD: Installing one or more options on your printer or MFP may require a caster base, furniture, or other feature to prevent instability causing possible injury. For more information on supported configurations, see www.lexmark.com/multifunctionprinters.

CAUTION—TIPPING HAZARD: To reduce the risk of equipment instability, load each tray separately. Keep all other trays closed until needed.

You can configure your printer by adding three optional 550-sheet trays.



1	Standard bin
2	650-sheet duo tray
3	Optional 550-sheet trays
4	Control panel

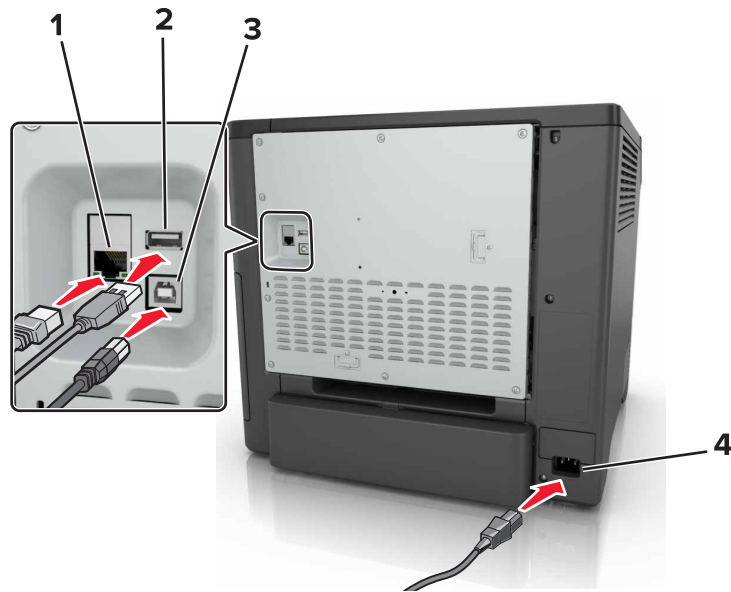
Attaching cables

⚠ CAUTION—SHOCK HAZARD: To avoid the risk of electrical shock, do not set up this product or make any electrical or cabling connections, such as the power cord, fax feature, or telephone, during a lightning storm.

⚠ CAUTION—POTENTIAL INJURY: To avoid the risk of fire or electrical shock, connect the power cord to an appropriately rated and properly grounded electrical outlet that is near the product and easily accessible.

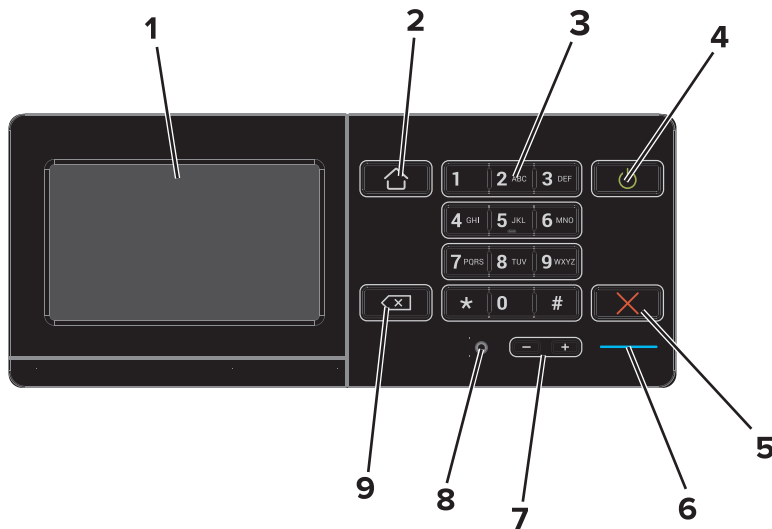
⚠ CAUTION—POTENTIAL INJURY: To avoid the risk of fire or electrical shock, use only the power cord provided with this product or the manufacturer's authorized replacement.

Warning—Potential Damage: Do not touch the USB cable, any wireless network adapter, or the printer in the area shown while actively printing. Loss of data or a malfunction can occur.



	Use the	To
1	Ethernet port	Connect the printer to a network.
2	USB port	Attach a keyboard or any compatible option.
3	USB printer port	Connect the printer to a computer.
4	Printer power cord socket	Connect the printer to a properly grounded electrical outlet.

Using the control panel



	Use the	To
1	Display	<ul style="list-style-type: none"> View the printer messages and supply status. Set up and operate the printer.

	Use the	To
2	Home button	Go to the home screen.
3	Keypad	Enter numbers or symbols in an input field.
4	Power button	<ul style="list-style-type: none"> • Turn on or turn off the printer. <p>Note: To turn off the printer, press and hold the power button for five seconds.</p> <ul style="list-style-type: none"> • Set the printer to Sleep or Hibernate mode. • Wake the printer from Sleep or Hibernate mode.
5	Stop or Cancel button	Stop the current job.
6	Indicator light	Check the status of the printer.
7	Volume buttons	Adjust the volume of the headset or speaker.
8	Headset or speaker port	Attach a headset or speaker.
9	Backspace button	Move the cursor backward and delete a character in an input field.

Understanding the status of the power button and indicator light

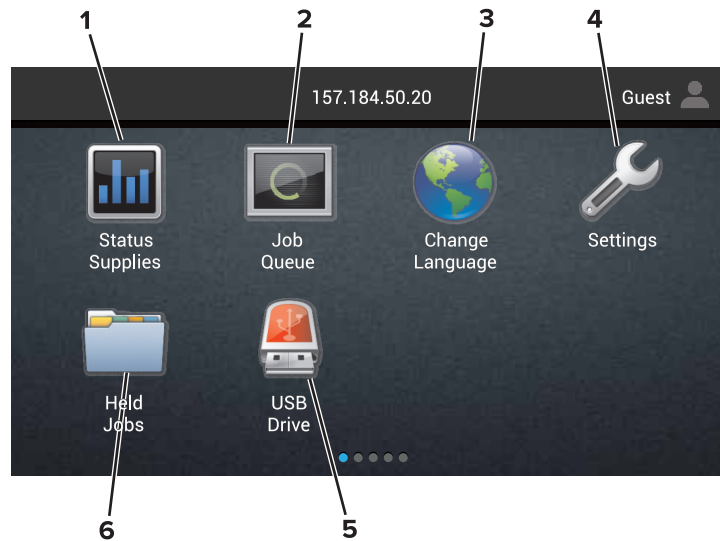
Indicator light	Printer status
Off	The printer is off or in Hibernate mode.
Blue	The printer is ready or processing data.
Red	The printer requires user intervention.

Power button light	Printer status
Off	The printer is off, ready, or processing data.
Solid amber	The printer is in sleep mode.
Blinking amber	The printer is in hibernate mode.

Using the home screen

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

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



Touch		To
1	Status/Supplies	<ul style="list-style-type: none"> Show a printer warning or error message whenever the printer requires intervention to continue processing. View more information on the printer warning or message, and on how to clear it. <p>Note: You can also access this setting by touching the top section of the home screen.</p>
2	Job Queue	Show all the current print jobs. Note: You can also access this setting by touching the top section of the home screen.
3	Change Language	Change the language on the printer display.
4	Settings	Access the printer menus.
5	USB Drive	View, select, or print photos and documents from a flash drive.
6	Held Jobs	Show all the current held print jobs.

These settings may also appear on the home screen

Touch	To
Bookmarks	Access bookmarks.
App Profiles	Access application profiles.
Lock Device	Prevent users from accessing any printer functions from the home screen.

Menu map

Device

<ul style="list-style-type: none"> • Preferences • Remote Operator Panel • Notifications • Power Management • Information Sent to Lexmark 	<ul style="list-style-type: none"> • Accessibility • Restore Factory Defaults • Maintenance • Visible Home Screen Icons • About This Printer
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Print

<ul style="list-style-type: none"> • Layout • Finishing • Setup • Quality • Job Accounting • XPS 	<ul style="list-style-type: none"> • PDF • PostScript • PCL • HTML • Image • PPDS
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Paper

<ul style="list-style-type: none"> • Tray Configuration • Media Configuration 	<ul style="list-style-type: none"> • Bin Configuration
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Network/Ports

<ul style="list-style-type: none"> • Network Overview • Wireless • AirPrint • Ethernet • TCP/IP • IPv6 • SNMP • IPSec 	<ul style="list-style-type: none"> • LPD Configuration • HTTP/FTP Settings • ThinPrint • USB • Parallel [x] • Serial • Google Cloud Print • Wi-Fi Direct
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USB Drive

Flash Drive Print

Security

<ul style="list-style-type: none"> • Login Methods • Schedule USB Devices • Security Audit Log • Login Restrictions • Confidential Print Setup 	<ul style="list-style-type: none"> • Disk Encryption • Erase Temporary Data Files • Solutions LDAP Settings • Miscellaneous
---	---

Option Card Menu

Note: This setting appears only when an optional card is installed.

Reports

- | | |
|---|---|
| <ul style="list-style-type: none">• Menu Settings Page• Device• Print | <ul style="list-style-type: none">• Shortcuts• Network |
|---|---|

Help

- | | |
|---|---|
| <ul style="list-style-type: none">• Print All Guides• Color Quality Guide• Connection Guide• Information Guide | <ul style="list-style-type: none">• Media Guide• Moving Guide• Print Quality Guide• Supplies Guide |
|---|---|

Troubleshooting

- | | |
|---|--|
| <ul style="list-style-type: none">• Basic Print Quality Samples | <ul style="list-style-type: none">• Advanced Print Quality Samples |
|---|--|

Printing a menu settings page

From the home screen, touch **Settings > Reports > Menu Settings Page**.

Setting up and using the home screen applications

Customizing the home screen

- 1 Open a web browser, and then type the printer IP address in the address field.

Notes:

- View the printer IP address on the printer home screen. The IP address appears as four sets of numbers separated by periods, such as 123.123.123.123.
- If you are using a proxy server, then temporarily disable it to load the web page correctly.

- 2 Click **Settings > Device > Visible Home Screen Icons**.
- 3 Select the icons that you want to appear on the home screen.
- 4 Apply the changes.

Using Display Customization

Changing the wallpaper

- 1 From the home screen, touch **Change Wallpaper**.
- 2 Select an image to use.
- 3 Apply the changes.

Creating a slide show

Before you begin, make sure to configure the slide show settings. For more information, see the documentation that came with the solution.

- 1 Insert a flash drive into the USB port.
- 2 From the home screen, touch **Slideshow**.

Note: Images appear in alphabetical order.

Setting up Forms and Favorites

- 1 Open a Web browser, and then type the printer IP address in the address field.

Notes:

- View the printer IP address on the printer home screen. The IP address appears as four sets of numbers separated by periods, such as 123.123.123.123.
- If you are using a proxy server, then temporarily disable it to load the Web page correctly.

- 2 Click **Apps > Forms and Favorites > Configure**.
- 3 Click **Add**, and then customize the settings.

Notes:

- To make sure that the location settings of the bookmark are correct, type the IP address of the host computer where the bookmark is located.
- Make sure that the printer has access rights to the folder where the bookmark is located.

4 Apply the changes.

Configuring Eco-Settings

- 1 From the home screen, touch **Eco-Settings**.
- 2 Configure the Eco-Mode settings or schedule a power-saving mode.
- 3 Apply the changes.

Managing contacts

Adding contacts

- 1 Open a web browser, and then type the printer IP address in the address field.

Notes:

- View the printer IP address on the printer home screen. The IP address appears as four sets of numbers separated by periods, such as 123.123.123.123.
- If you are using a proxy server, then temporarily disable it to load the web page correctly.

- 2 Click **Address Book**.
- 3 From the Contacts section, add a contact.

Note: You can assign the contact to one or more groups.

- 4 If necessary, specify a login method to allow application access.
- 5 Apply the changes.

Adding groups

- 1 Open a web browser, and then type the printer IP address in the address field.

Notes:

- View the printer IP address on the printer home screen. The IP address appears as four sets of numbers separated by periods, such as 123.123.123.123.
- If you are using a proxy server, then temporarily disable it to load the web page correctly.

- 2 Click **Address Book**.
- 3 From the Contact Groups section, add a group name.

Note: You can assign one or more contacts to the group.

- 4 Apply the changes.

Editing contacts or groups

1 Open a web browser, and then type the printer IP address in the address field.

Notes:

- View the printer IP address on the printer home screen. The IP address appears as four sets of numbers separated by periods, such as 123.123.123.123.
- If you are using a proxy server, then temporarily disable it to load the web page correctly.

2 Click **Address Book**.

3 Do either of the following:

- From the Contacts section, click a contact name, and then edit the information.
- From the Contact Groups section, click a group name, and then edit the information.

4 Apply the changes.

Deleting contacts or groups

1 Open a web browser, and then type the printer IP address in the address field.

Notes:

- View the printer IP address on the printer home screen. The IP address appears as four sets of numbers separated by periods, such as 123.123.123.123.
- If you are using a proxy server, then temporarily disable it to load the web page correctly.

2 Click **Address Book**.

3 Do either of the following:

- From the Contacts section, select a contact that you want to delete.
- From the Contact Groups section, select a group name that you want to delete.

Setting up and using the accessibility features

Enabling Magnification mode

- 1 From the control panel, press and hold the **5** key until you hear a voice message.
- 2 Select **Magnification**.
- 3 Select **OK**.

For more information on navigating a magnified screen, see [“Navigating the screen using gestures” on page 21](#).

Activating Voice Guidance

From the control panel

- 1 Press and hold the **5** key until you hear a voice message.
- 2 Select **OK**.

From the keyboard

- 1 Press and hold the **5** key until you hear a voice message.
- 2 Press **Tab** to navigate the focus cursor to the OK button, and then press **Enter**.

Notes:

- Voice Guidance is also activated when you insert headphones into the headphone jack.
- To adjust the volume, use the volume buttons at the bottom part of the control panel.

Adjusting the Voice Guidance speech rate

- 1 From the home screen, select **Settings** > **Device** > **Accessibility** > **Speech Rate**.
- 2 Select the speech rate.

Enabling spoken passwords or personal identification numbers

- 1 From the home screen, select **Settings** > **Device** > **Accessibility** > **Speak Passwords/PINs**.
- 2 Enable the setting.

Navigating the screen using gestures

Notes:

- The gestures are applicable only when Voice Guidance is activated.
- A physical keyboard is required for typing characters and adjusting certain settings.

Gesture	Function
Double-tap	Select an option or item on the screen.
Triple-tap	Zoom in or zoom out text and images.
Swipe right or swipe down	Move to the next item on the screen.
Swipe left or swipe up	Move to the previous item on the screen.
Pan	Access parts of the zoomed image that are beyond the limits of the screen. Note: This gesture requires the use of two fingers to drag across a zoomed image.
Swipe up then left	Exit an application and return to the home screen.
Swipe down then left	<ul style="list-style-type: none"> • Cancel a job. • Go back to the previous setting. • Exit the screen that appears without changing any setting or value.
Swipe up then down	Repeat a spoken prompt.

Using the keyboard on the display

Do one or more of the following:

- Drag a finger over the key to announce the character.
- Lift the finger to enter or type the character in the field.
- Press **Backspace** to delete characters.
- To hear the content in the input field, press **Tab**, and then press **Shift + Tab**.

Loading paper and specialty media

Setting the size and type of the specialty media

The trays automatically detect the size of plain paper. For specialty media like labels, card stock, or envelopes, do the following:

- 1 From the home screen, navigate to:
Settings > Paper > Tray Configuration > Paper Size/Type > select a paper source
- 2 Set the size and type of the specialty media.

Configuring Universal paper settings

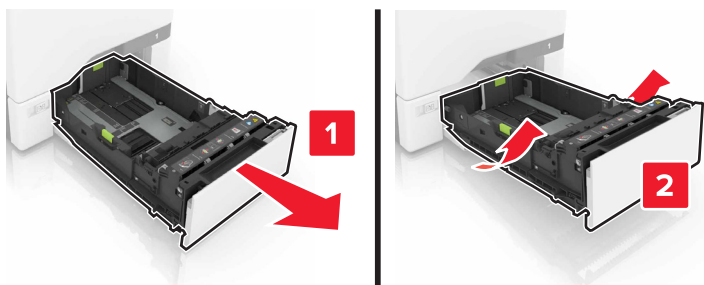
- 1 From the home screen, touch **Settings > Paper > Media Configuration > Universal Setup**.
- 2 Configure the settings.

Loading trays

CAUTION—TIPPING HAZARD: To reduce the risk of equipment instability, load each tray separately. Keep all other trays closed until needed.

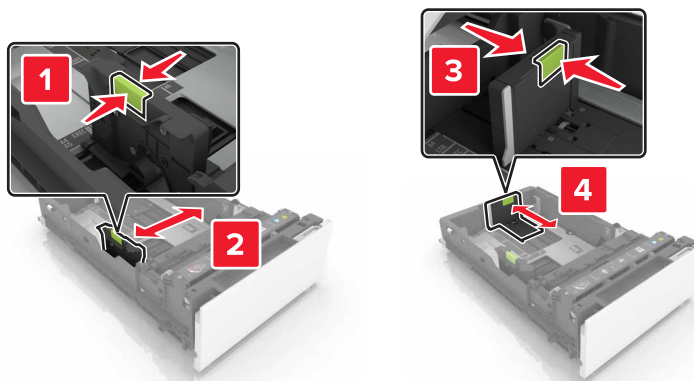
- 1 Remove the tray.

Note: To avoid jams, do not remove trays while the printer is busy.

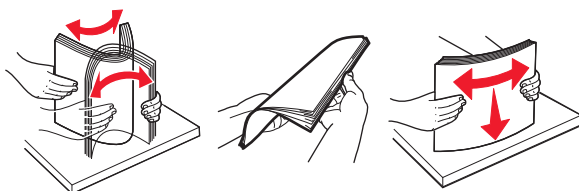


- 2 Adjust the guides to match the size of the paper you are loading.

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



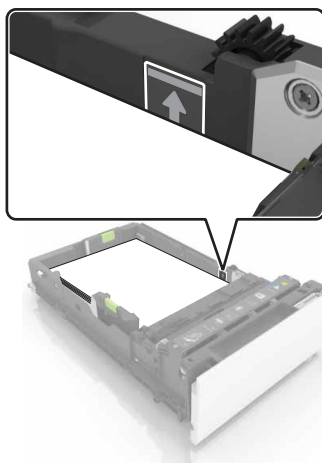
3 Flex, fan, and align the paper edges before loading.



4 Load the paper stack with the printable side faceup.

Notes:

- For one-sided printing, load letterhead faceup with the header toward the front of the tray.
- For two-sided printing, load letterhead facedown with the header toward the back of the tray.
- Do not slide paper into the tray.
- Make sure that the stack height is below the maximum paper fill indicator. Overfilling may cause paper jams.

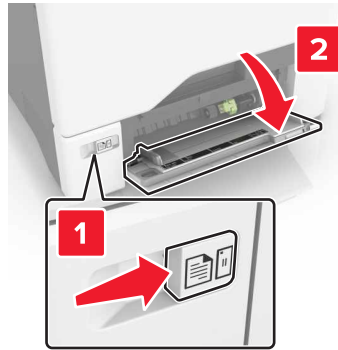


5 Insert the tray.

If necessary, set the paper size and type to match the paper loaded in the tray.

Loading the multipurpose feeder

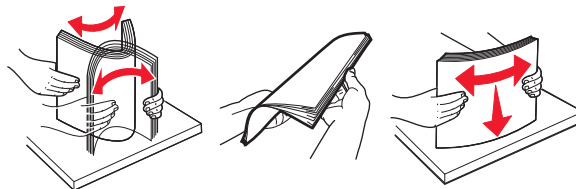
- 1 Open the multipurpose feeder.



- 2 Adjust the guide to match the size of the paper you are loading.



- 3 Flex, fan, and align the paper edges before loading.

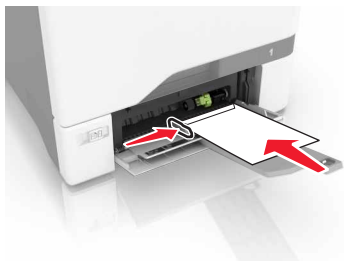


4 Load the paper.

- Load paper and card stock with the printable side facedown and the top edge entering the printer first.



- Load envelopes with the flap side up and against the right side of the paper guide. Load European envelopes with the flap entering the printer first.



Warning—Potential Damage: Do not use envelopes with stamps, clasps, snaps, windows, coated linings, or self-stick adhesives.

- 5 From the Paper Menu in the control panel, set the paper size and type to match the paper loaded in the tray.

Linking trays

- 1 Open a Web browser, and then type the printer IP address in the address field.

Notes:

- View the printer IP address on the printer home screen. The IP address appears as four sets of numbers separated by periods, such as 123.123.123.123.
- If you are using a proxy server, then temporarily disable it to load the Web page correctly.

- 2 Click **Settings > Paper**.

3 Match the paper size and type for the trays you are linking.

Note: To unlink trays, make sure that no trays have the same paper size or type.

4 Save the settings.

Note: You can also change the paper size and type settings from the printer control panel.

Warning—Potential Damage: The temperature of the fuser varies according to the specified paper type. To avoid printing issues, match the paper type settings in the printer with the paper loaded in the tray.

Printing

Printing from a computer

Note: For labels, card stock, and envelopes, set the paper size and type in the printer before printing the document.

- 1 From the document that you are trying to print, open the Print dialog.
- 2 If necessary, adjust the settings.
- 3 Print the document.

Printing forms

- 1 From the home screen, navigate to:
Forms and Favorites > select form > **Print**
- 2 If necessary, configure the print settings.
- 3 Send the print job.

Printing from a mobile device

Printing from a mobile device using Lexmark Mobile Print

Lexmark™ Mobile Print allows you to send documents and images directly to a supported Lexmark printer.

- 1 Open the document, and then send or share the document to Lexmark Mobile Print.
Note: Some third-party applications may not support the send or share feature. For more information, see the documentation that came with the application.
- 2 Select a printer.
- 3 Print the document.

Printing from a mobile device using Google Cloud Print

Google Cloud Print™ is a mobile printing service that allows enabled applications on mobile devices to print to any Google Cloud Print-ready printer.

- 1 From the home screen of your mobile device, launch an enabled application.
- 2 Tap **Print**, and then select a printer.
- 3 Print the document.

Printing from a mobile device using Mopria Print Service

Mopria® Print Service is a mobile printing solution for mobile devices running on Android version 4.4 or later. It allows you to print directly to any Mopria-certified printer.

Note: Before printing, make sure that the Mopria Print Service is enabled.

- 1 From the home screen of your mobile device, launch a compatible application.
- 2 Tap **Print**, and then select a printer.
- 3 Print the document.

Printing from a mobile device using AirPrint

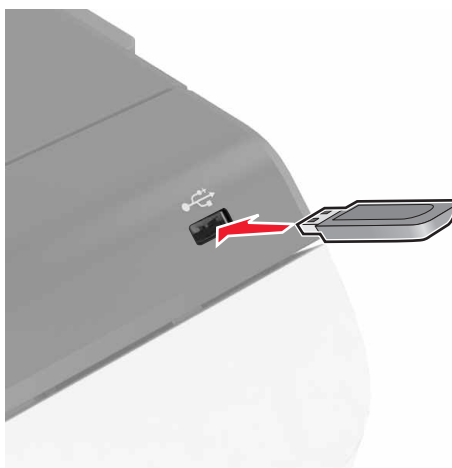
AirPrint is a mobile printing solution that allows you to print directly from Apple devices to an AirPrint-certified printer.

Notes:

- This application is supported only in some Apple devices.
 - This application is supported only in some printer models.
- 1 From the home screen of your mobile device, launch a compatible application.
 - 2 Select an item to print, and then tap the share icon.
 - 3 Tap **Print**, and then select a printer.
 - 4 Print the document.

Printing from a flash drive

- 1 Insert a flash drive into the USB port.



Notes:

- If you insert the flash drive when an error message appears, then the printer ignores the flash drive.

- If you insert the flash drive while the printer is processing other print jobs, then **Busy** appears on the display.
- 2 From the display, touch the document that you want to print.
If necessary, configure other print settings.
 - 3 Send the print job.
To print another document, touch **USB Drive**.

Warning—Potential Damage: Do not touch the printer or the flash drive in the area shown while actively printing, reading, or writing from the memory device. Loss of data or a malfunction can occur.



Supported flash drives and file types

Flash drives

- Lexar JumpDrive S70 (16GB and 32GB)
- SanDisk Cruzer (16GB and 32GB)
- PNY Attaché (16GB and 32GB)

Notes:

- The printer supports high-speed USB flash drives with full-speed standard.
- USB flash drives must support the File Allocation Table (FAT) system.

File types

Documents:

- .doc or .docx
- .xls or .xlsx
- .ppt or .pptx
- .pdf
- .xps

Images:

- .dcx
- .gif
- .jpeg or .jpg
- .bmp
- .pcx
- .tiff or .tif
- .png

Configuring confidential jobs

- 1 From the home screen, touch **Settings > Security > Confidential Print Setup**.
- 2 Configure the settings.

Use	To
Max Invalid PIN	Limit the number of times an invalid PIN can be entered. Note: When the limit is reached, the print jobs for that user name are deleted.
Confidential Job Expiration	Set the amount of time before confidential jobs are automatically deleted from the printer memory. Note: Confidential held jobs are stored in the printer until you log in and release or delete them manually.
Repeat Job Expiration	Set the amount of time before repeat jobs are deleted from the printer memory. Note: Repeat held jobs are stored so extra copies can be printed later.
Verify Job Expiration	Set the amount of time before verify jobs are deleted from the printer memory. Note: Verify jobs print one copy to check if it is satisfactory before printing the remaining copies.
Reserve Job Expiration	Set the amount of time before reserved jobs are deleted without being printed. Note: Reserve held jobs are automatically deleted after printing.

Printing held jobs

- 1 From the document you are trying to print, open the Print dialog.
- 2 Select the printer, and then do the following:
 - For Windows users, click **Properties** or **Preferences**, and then click **Print and Hold**.
 - For Macintosh users, select **Print and Hold**.
- 3 Select the print job type.
- 4 If necessary, assign a user name.
- 5 Send the print job.
- 6 From the printer home screen, touch **Held Jobs**.
- 7 Send the print job.

Printing a font sample list

- 1 From the home screen, touch **Settings** > **Reports** > **Print** > **Print Fonts**.
- 2 Touch **PCL Fonts** or **PostScript Fonts**.

Canceling a print job

From the printer control panel

- 1 From the home screen, touch **Job Queue**.
Note: You can also access this setting by touching the top section of the home screen.
- 2 Select the job to cancel.

From the computer

- 1 Depending on the operating system, do either of the following:
 - Open the printers folder, and then select your printer.
 - From the System Preferences in the Apple menu, navigate to your printer.
- 2 Select the job to cancel.

Securing the printer

Erasing printer memory

To erase volatile memory or buffered data in your printer, turn off the printer.

To erase non-volatile memory or individual settings, device and network settings, security settings, and embedded solutions, do the following:

- 1 From the home screen, touch **Settings > Device > Maintenance > Out of Service Erase**.
- 2 Select the **Sanitize all information on nonvolatile memory** check box, and then touch **ERASE**.
- 3 Follow the instructions on the display.

Erasing printer hard disk memory

- 1 From the home screen, touch **Settings > Device > Maintenance > Out of Service Erase**.
- 2 Select the **Sanitize all information on hard disk** check box, and then touch **ERASE**.
- 3 Follow the instructions on the display.

Note: This process can take from several minutes to more than an hour, making the printer unavailable for other tasks.

Configuring printer hard disk encryption

- 1 From the home screen, touch **Settings > Security > Disk Encryption > Start Encryption**.

Note: Enabling disk encryption erases the contents of the hard disk. If necessary, back up important data from the printer before starting the encryption.

- 2 Follow the instructions on the display.

Notes:

- Do not turn off the printer during the encryption process. Loss of data can occur.
- Disk encryption can take from several minutes to more than an hour, making the printer unavailable for other tasks.
- After encryption, the printer returns to the home screen.

Restoring factory default settings

From the home screen, touch **Settings > Device > Restore Factory Defaults > Restore Settings > Restore all settings > RESTORE > Start**.

For more information, see [“Erasing printer memory” on page 32](#).

Statement of Volatility

Your printer contains various types of memory that can store device and network settings, and user data.

Type of memory	Description
Volatile memory	Your printer uses standard <i>random access memory</i> (RAM) to temporarily buffer user data during simple print jobs.
Non-volatile memory	Your printer may use two forms of non-volatile memory: EEPROM and NAND (flash memory). Both types are used to store the operating system, device settings, network information and bookmark settings, and embedded solutions.
Hard disk memory	Some printers have a hard disk drive installed. The printer hard disk is designed for printer-specific functionality. This lets the printer retain buffered user data from complex print jobs, as well as form data, and font data.

Erase the content of any installed printer memory in the following circumstances:

- The printer is being decommissioned.
- The printer hard disk 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.
- The printer is being sold to another organization.

Disposing of a printer hard disk

Note: Some printer models may not have a printer hard disk installed.

In high-security environments, it may be necessary to take additional steps to make sure that confidential data stored in the printer hard disk cannot be accessed when the printer—or its hard disk—is removed from your premises.

- **Degaussing**—Flushes the hard disk 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: Most data can be erased electronically, but the only way to guarantee that all data are completely erased is to physically destroy each hard disk where data is stored.

Maintaining the printer

Warning—Potential Damage: Failure to maintain optimum printer performance, or to replace parts and supplies, may cause damage to your printer.

Adjusting the speaker volume

Adjusting the default internal speaker volume

The speaker volume will reset to default value after the session is logged out, when the printer wakes from Sleep or Hibernate mode, or after a power-on reset.

- 1 From the control panel, navigate to:
Settings > Device > Preferences > Audio Feedback
- 2 Select the volume.

Note: If Quiet Mode is enabled, then audible alerts are turned off.

Adjusting the default headphones volume

Headphones volume will reset to default value after the session is logged out, when the printer wakes from Sleep or Hibernate mode, or after a power-on reset.

- 1 From the control panel, select **Settings > Device > Accessibility > Headphone Volume**.
- 2 Select the volume.

Networking

Connecting the printer to a wireless network using Wi-Fi Protected Setup (WPS)

Before you begin, make sure that:

- The access point (wireless router) is WPS-certified or WPS-compatible. For more information, see the documentation that came with your access point.
- A wireless network adapter is installed in your printer. For more information, see the instructions that came with the adapter.

Using the Push Button method

- 1 From the control panel, navigate to:
Settings > Network/Ports > Wireless > Wi-Fi Protected Setup > Start Push Button Method
- 2 Follow the instructions on the display.

Using the personal identification number (PIN) method

- 1 From the control panel, navigate to:
Settings > Network/Ports > Wireless > Wi-Fi Protected Setup > Start PIN Method
- 2 Copy the eight-digit WPS PIN.
- 3 Open a Web browser, and then type the IP address of your access point in the address field.

Notes:

- View the printer IP address on the printer home screen. The IP address appears as four sets of numbers separated by periods, such as 123.123.123.123.
 - If you are using a proxy server, then temporarily disable it to load the Web page correctly.
- 4 Access the WPS settings. For more information, see the documentation that came with your access point.
 - 5 Enter the eight-digit PIN, and then save the changes.

Changing port settings after installing an internal solutions port

Notes:

- If the printer has a static IP address, then do not change the configuration.
- If the computers are configured to use the network name instead of an IP address, then do not change the configuration.
- If you are adding a wireless internal solutions port (ISP) to a printer previously configured for an Ethernet connection, then disconnect the printer from the Ethernet network.

For Windows users

- 1 Open the printers folder.
- 2 From the shortcut menu of the printer with the new ISP, open the printer properties.
- 3 Configure the port from the list.
- 4 Update the IP address.
- 5 Apply the changes.

For Macintosh users

- 1 From System Preferences in the Apple menu, navigate to the list of printers, and then select + > IP.
- 2 Type the IP address in the address field.
- 3 Apply the changes.

Setting up serial printing (Windows only)

- 1 Set the parameters in the printer.
 - a From the control panel, navigate to the menu for the port settings.
 - b Locate the menu for the serial port settings, and then adjust the settings, if necessary.

- c Apply the changes.
- 2 From your computer, open the printers folder, and then select your printer.
- 3 Open the printer properties, and then select the COM port from the list.
- 4 Set the COM port parameters in Device Manager.

Notes:

- Serial printing reduces printing speed.
- Make sure that the serial cable is connected to the serial port on your printer.

Cleaning the printer



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

Notes:

- Perform this task after every few months.
 - Damage to the printer caused by improper handling is not covered by the printer warranty.
- 1 Turn off the printer, and then unplug the power cord from the electrical outlet.
 - 2 Remove paper from the standard bin and multipurpose feeder.
 - 3 Remove any dust, lint, and pieces of paper around the printer using a soft brush or vacuum.
 - 4 Wipe the outside of the printer with a damp, soft, lint-free cloth.

Notes:

- Do not use household cleaners or detergents, as they may damage the finish of the printer.
 - Make sure that all areas of the printer are dry after cleaning.
- 5 Connect the power cord to the electrical outlet, and then turn on the printer.



CAUTION—POTENTIAL INJURY: To avoid the risk of fire or electrical shock, connect the power cord to an appropriately rated and properly grounded electrical outlet that is near the product and easily accessible.

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, go to 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.

Checking the status of parts and supplies

- 1 From the home screen, touch **Status/Supplies**.
- 2 Select the parts or supplies that you want to check.

Note: You can also access this setting by touching the top section of the home screen.

Using genuine Lexmark parts and supplies

Your Lexmark printer is designed to function best with genuine Lexmark parts and supplies. Use of third-party supplies or parts may affect the performance, reliability, or life of the printer and its imaging components. It can also affect warranty coverage. Damage caused by the use of third-party parts and supplies is not covered by the warranty. All life indicators are designed to function with Lexmark parts and supplies, and may deliver unpredictable results if third-party parts and supplies are used. Imaging component usage beyond the intended life may damage your Lexmark printer or its associated components.

Ordering toner cartridges

Notes:

- The estimated cartridge yield is based on the ISO/IEC 19798 standard.
- Extremely low print coverage for extended periods of time may negatively affect actual yield and may cause cartridge parts to fail before exhaustion of toner.

Lexmark CS720, CS725, and CS725R Return Program cartridges

Item	United States and Canada	European Economic Area (EEA+)	Rest of Asia Pacific (RoAP)	Latin America Distribution (LAD)	Rest of Europe, Middle East, and Africa (RoEMEA)	Australia and New Zealand (ANZ)
Return Program toner cartridges¹						
Black	74C10K0	74C20K0	74C30K0	74C40K0	74C50K0	74C60K0
Cyan	74C10C0	74C20C0	74C30C0	74C40C0	74C50C0	74C60C0
Magenta	74C10M0	74C20M0	74C30M0	74C40M0	74C50M0	74C60M0
Yellow	74C10Y0	74C20Y0	74C30Y0	74C40Y0	74C50Y0	74C60Y0

¹ These Return Program toner cartridges are supported in the Lexmark CS720, CS725, and CS725R printer models.

² These High Yield Return Program toner cartridges are supported only in the Lexmark CS725 and CS725R printer models.

Item	United States and Canada	European Economic Area (EEA+)	Rest of Asia Pacific (RoAP)	Latin America Distribution (LAD)	Rest of Europe, Middle East, and Africa (RoEMEA)	Australia and New Zealand (ANZ)
High Yield Return Program toner cartridges						
Black ¹	74C1HK0	74C2HK0	74C3HK0	74C4HK0	74C5HK0	74C6HK0
Cyan ²	74C1HC0	74C2HC0	74C3HC0	74C4HC0	74C5HC0	74C6HC0
Magenta ²	74C1HM0	74C2HM0	74C3HM0	74C4HM0	74C5HM0	74C6HM0
Yellow ²	74C1HY0	74C2HY0	74C3HY0	74C4HY0	74C5HY0	74C6HY0
Standard Yield Return Program toner cartridges¹						
Black	74C1SK0	74C2SK0	74C3SK0	74C4SK0	74C5SK0	74C6SK0
Cyan	74C1SC0	74C2SC0	74C3SC0	74C4SC0	74C5SC0	74C6SC0
Magenta	74C1SM0	74C2SM0	74C3SM0	74C4SM0	74C5SM0	74C6SM0
Yellow	74C1SY0	74C2SY0	74C3SY0	74C4SY0	74C5SY0	74C6SY0
¹ These Return Program toner cartridges are supported in the Lexmark CS720, CS725, and CS725R printer models. ² These High Yield Return Program toner cartridges are supported only in the Lexmark CS725 and CS725R printer models.						

Regular toner cartridges

Item	Worldwide
Lexmark CS720 Regular toner cartridges	
Cyan	74C0S20
Magenta	74C0S30
Yellow	74C0S40
Lexmark CS725 and CS725R High yield regular toner cartridges	
Black*	74C0H10
Cyan	74C0H20
Magenta	74C0H30
Yellow	74C0H40
* This toner cartridge is also supported in the Lexmark CS720 printer model.	

Lexmark CS727 and CS728 Return Program cartridges

Item	United States and Canada	European Economic Area (EEA+)	Rest of Asia Pacific (RoAP)	Latin America Distribution (LAD)	Rest of Europe, Middle East, and Africa (RoEMEA)	Australia and New Zealand (ANZ)
Return Program toner cartridges						
Black	75B10K0	75B20K0	75B30K0	75B40K0	75B50K0	75B60K0
Cyan	75B10C0	75B20C0	75B30C0	75B40C0	75B50C0	75B60C0
Magenta	75B10M0	75B20M0	75B30M0	75B40M0	75B50M0	75B60M0
Yellow	75B10Y0	75B20Y0	75B30Y0	75B40Y0	75B50Y0	75B60Y0

Lexmark CS727 and CS728 Regular cartridges

Item	Worldwide
Regular toner cartridges	
Black	75B0010
Cyan	75B0020
Magenta	75B0030
Yellow	75B0040

Ordering imaging unit or imaging kit

Item	All countries and regions
Return Program imaging unit or imaging kit	
Black imaging unit	74C0ZK0
Color (CMY) imaging kit	74C0ZV0
Regular imaging unit or imaging kit	
Black imaging unit	74C0Z10
Color (CMY) imaging kit	74C0Z50

Ordering a waste toner bottle

Item	Part number
Waste toner bottle	74C0W00

Ordering a fuser maintenance kit

Fuser maintenance kit type	Part number
Fuser maintenance kit, type 00, 110–120 V	41X0554
Fuser maintenance kit, type 01, 220–240 V	41X0556
Fuser maintenance kit, type 02, 100 V	41X0552

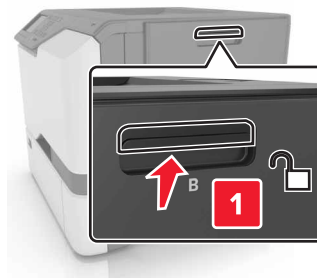
Ordering a transfer module

Item	Part number
Transfer module	40X9929

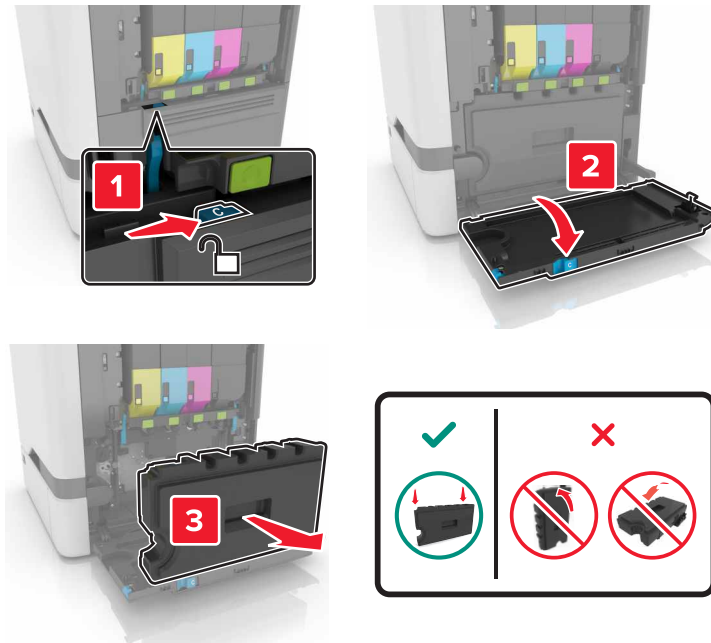
Replacing parts and supplies

Replacing the imaging unit

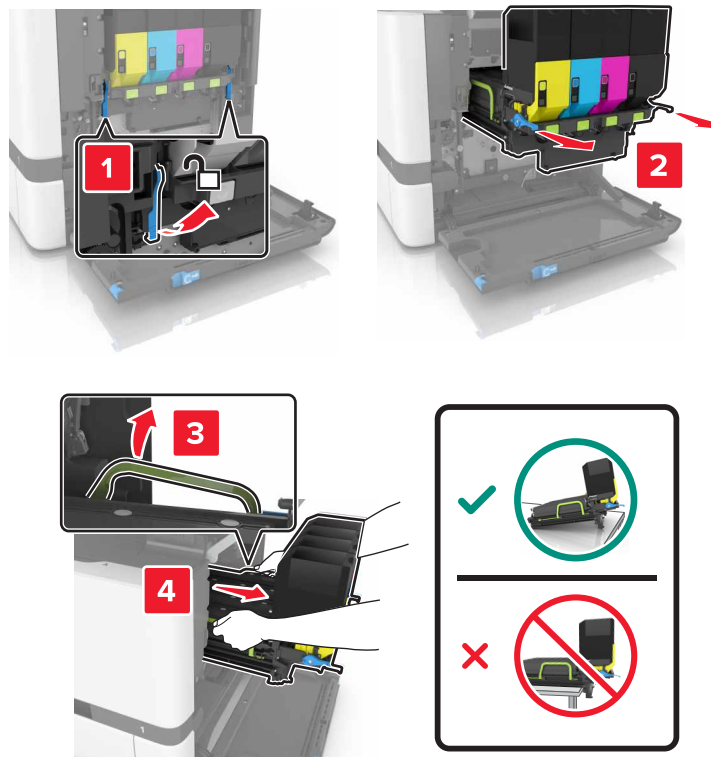
- 1 Open door B.



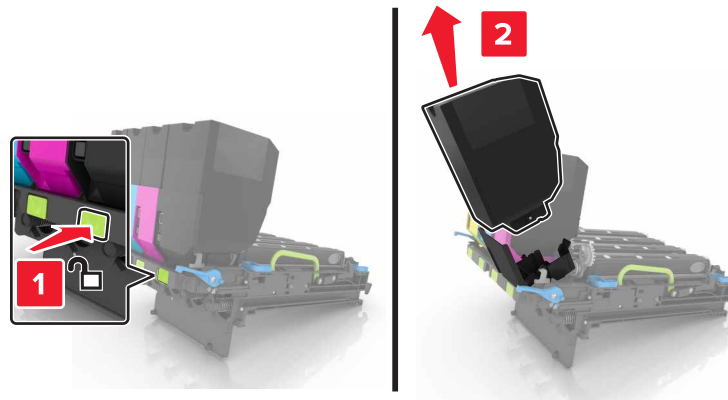
2 Remove the waste toner bottle.



3 Remove the imaging kit.



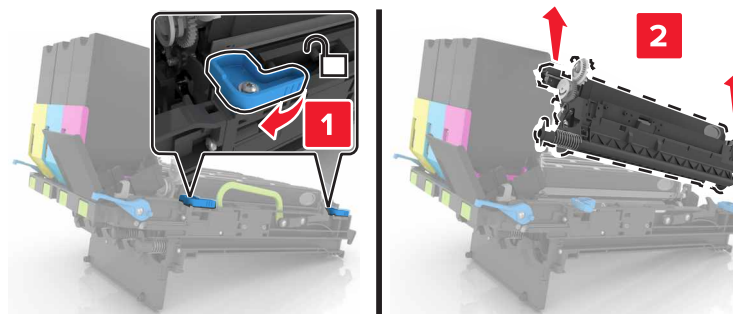
4 Remove the black toner cartridge.



5 Remove the imaging unit.

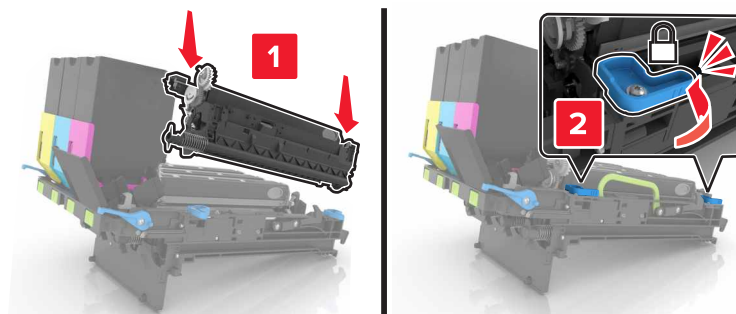
Warning—Potential Damage: Do not expose the photoconductor unit to direct light for more than 10 minutes. Extended exposure to light may cause print quality problems.

Warning—Potential Damage: Do not touch the shiny photoconductor drum under the imaging kit. Doing so may affect the quality of future print jobs.

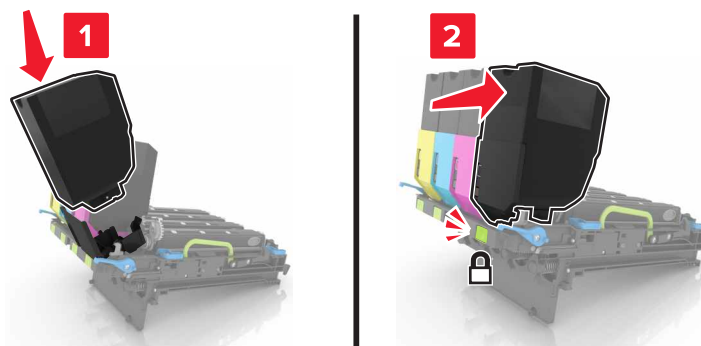


6 Unpack the new imaging unit.

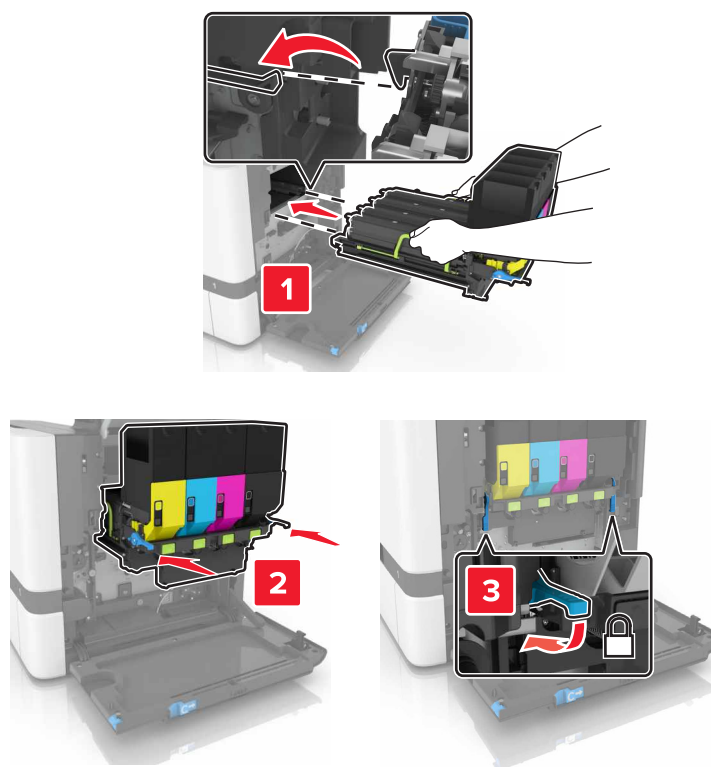
7 Insert the new imaging unit.



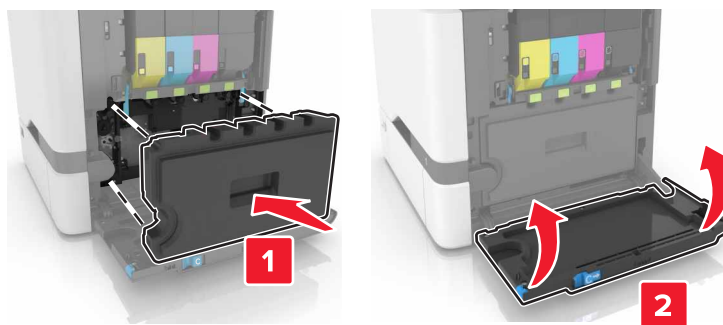
8 Insert the black toner cartridge.



9 Insert the imaging kit.



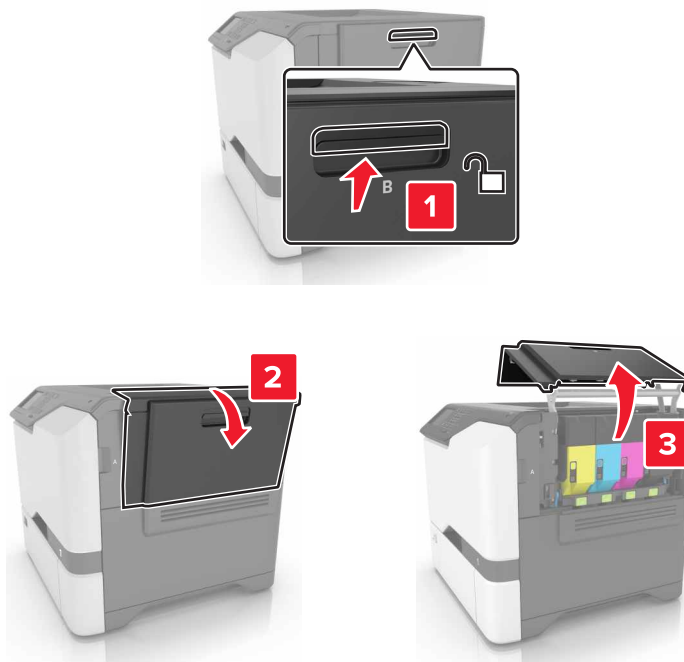
10 Insert the waste toner bottle.



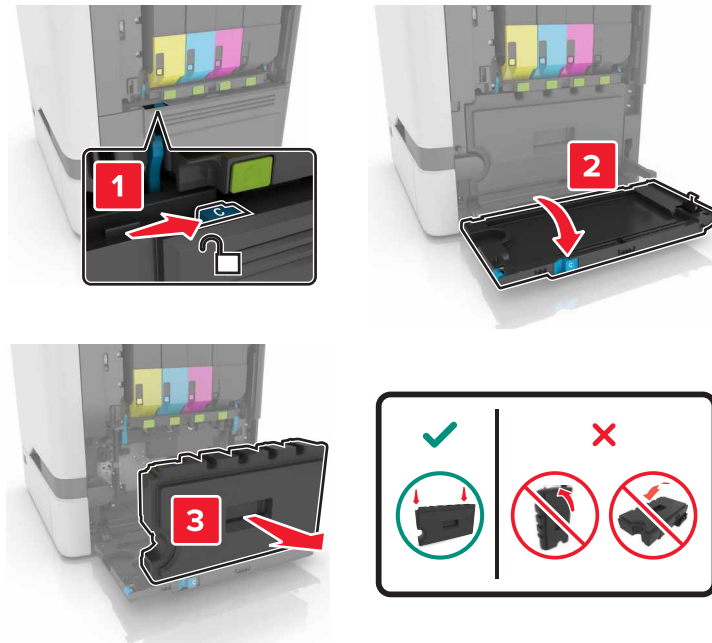
11 Close door B.

Replacing the imaging kit

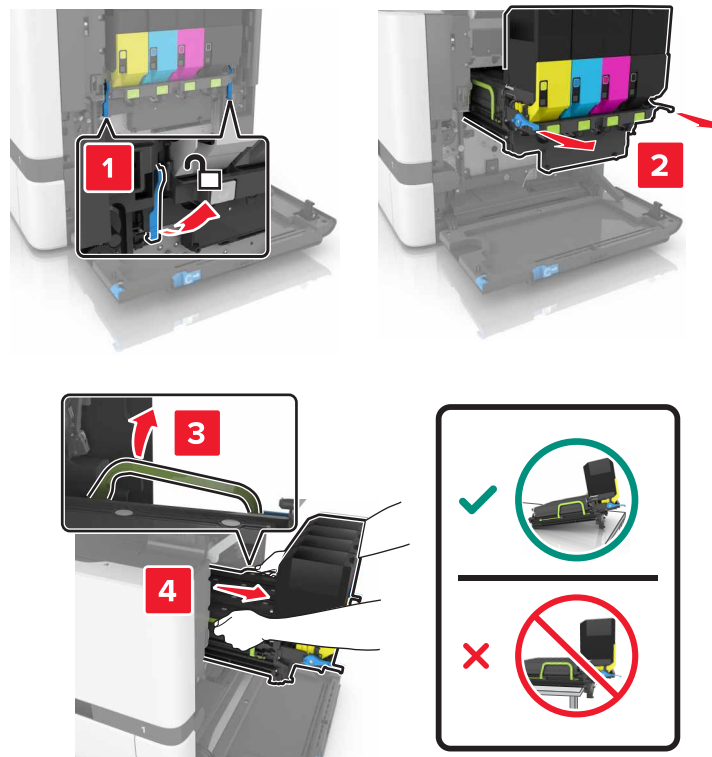
1 Open door B.



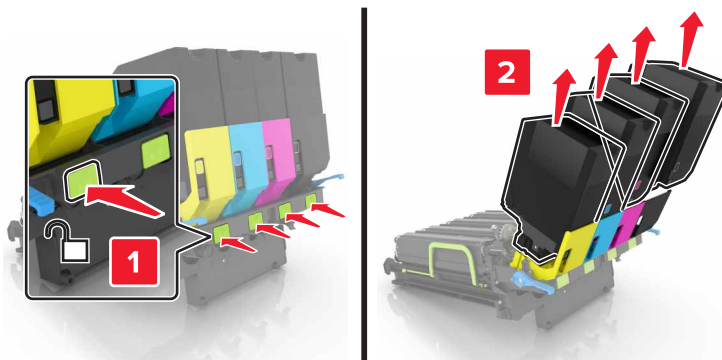
2 Remove the waste toner bottle.



3 Remove the imaging kit.



4 Remove the toner cartridges.



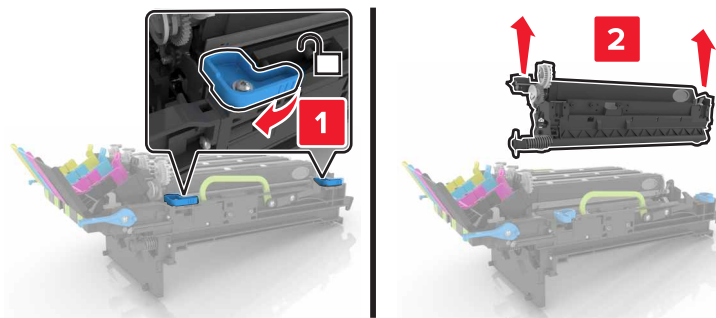
5 Unpack the new imaging kit, and then remove the packing material.

Note: The imaging kit includes the imaging kit and the cyan, magenta, and yellow developer units.

6 Remove the black imaging unit.

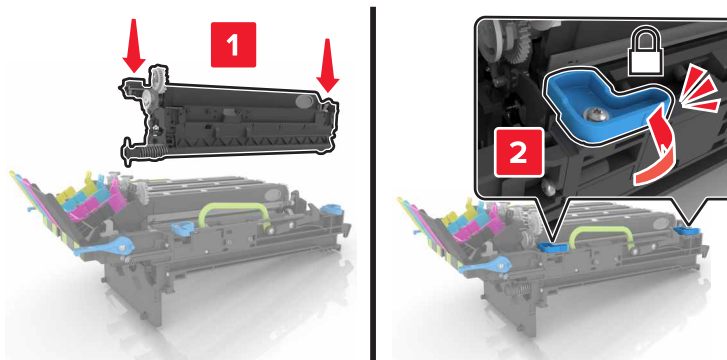
Warning—Potential Damage: Do not expose the photoconductor unit to direct light for more than 10 minutes. Extended exposure to light may cause print quality problems.

Warning—Potential Damage: Do not touch the shiny photoconductor drum under the imaging unit. Doing so may affect the quality of future print jobs.

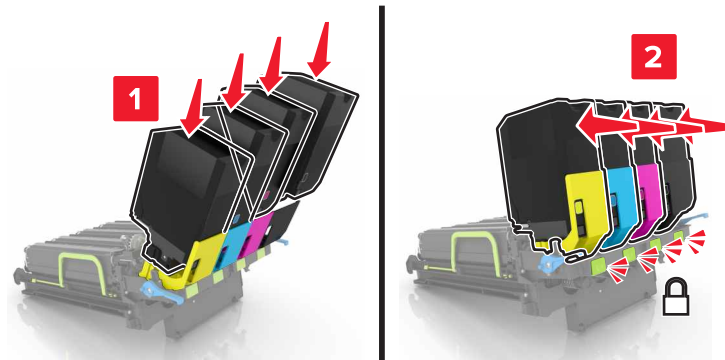


Note: The black imaging unit includes the black developer unit and photoconductor unit.

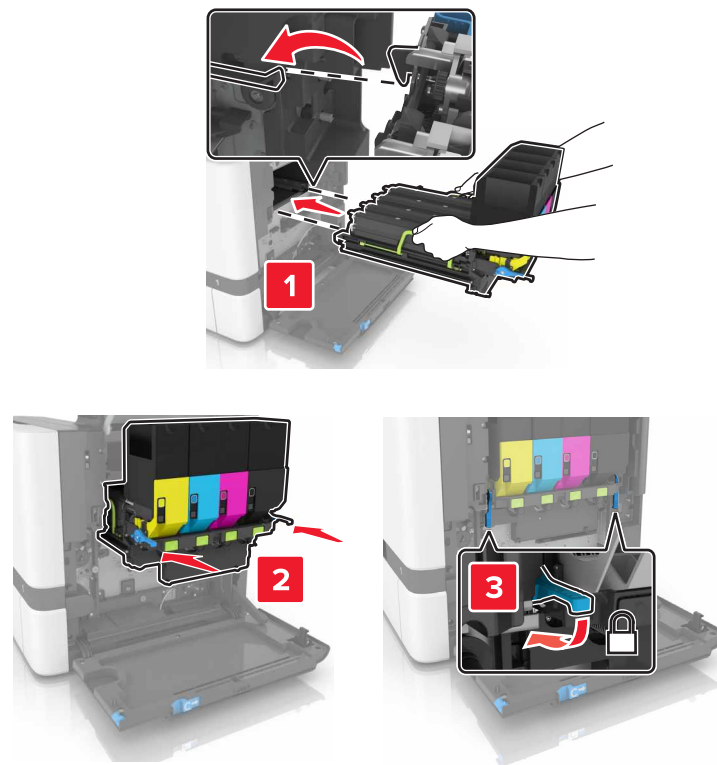
7 Insert the black imaging unit into the new imaging kit.



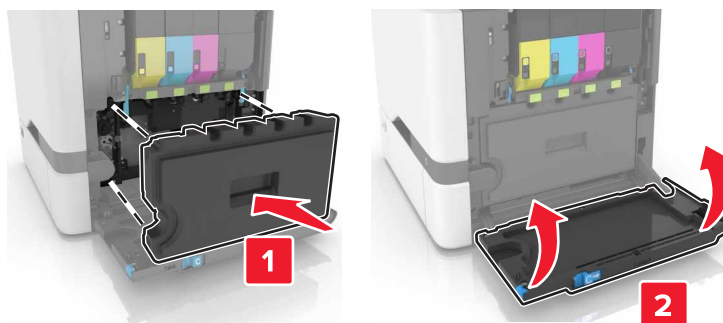
8 Insert the toner cartridges.



9 Insert the new imaging kit.



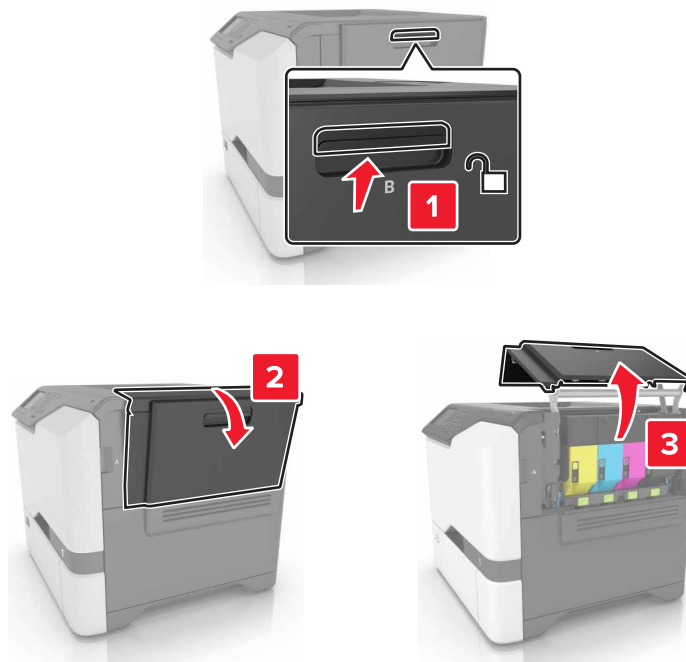
10 Insert the waste toner bottle.



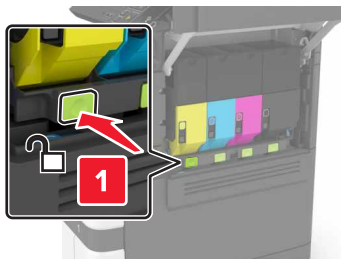
11 Close door B.

Replacing a toner cartridge

1 Open door B.

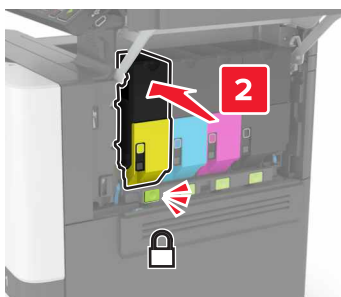
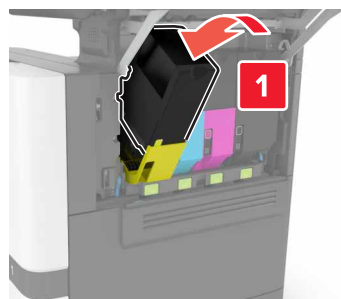


2 Remove the toner cartridge.



3 Unpack the new toner cartridge.

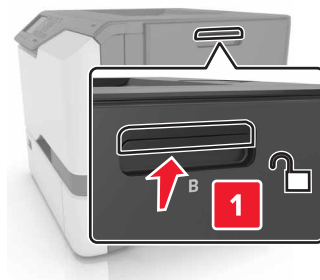
4 Insert the new toner cartridge.



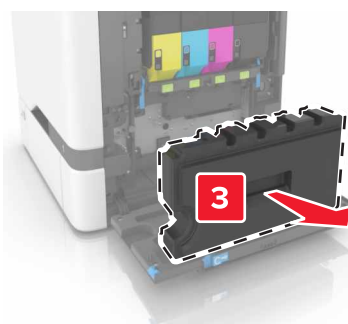
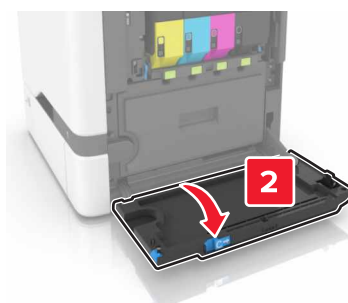
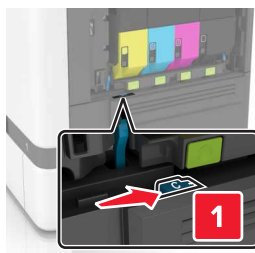
5 Close door B.

Replacing the waste toner bottle

1 Open door B.

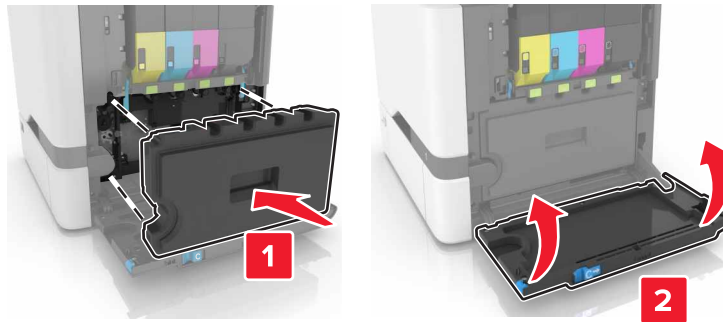


2 Remove the waste toner bottle.



3 Unpack the new waste toner bottle.


- 4 Insert the new waste toner bottle.

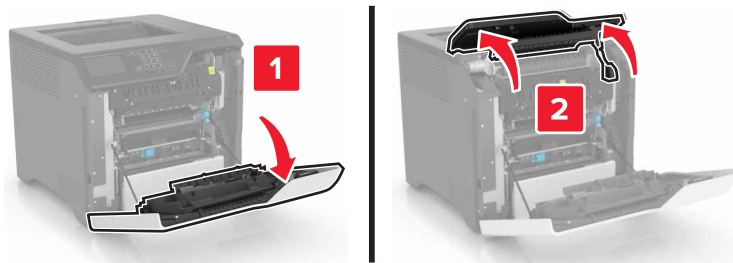


- 5 Close door B.

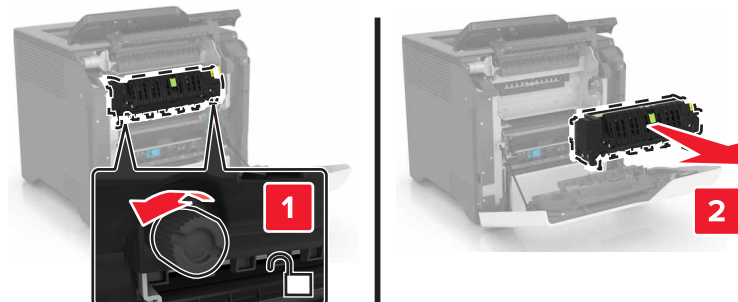
Replacing the fuser

- 1 Turn off the printer, and then unplug the power cord from the electrical outlet.
- 2 Open doors A and D.

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

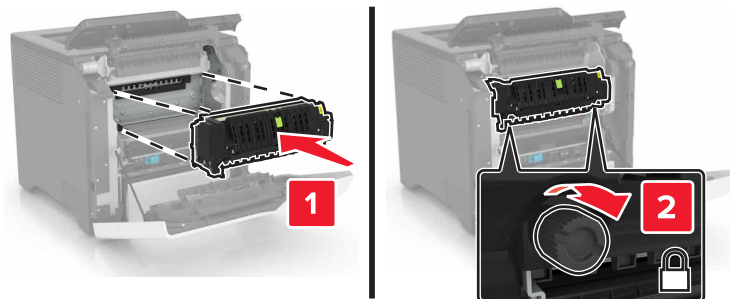


- 3 Remove the fuser.



- 4 Unpack the new fuser.

5 Insert the new fuser.



6 Close doors D and A.

7 Connect the power cord to the electrical outlet, and then turn on the printer.

⚠ CAUTION—POTENTIAL INJURY: To avoid the risk of fire or electrical shock, connect the power cord to an appropriately rated and properly grounded electrical outlet that is near the product and easily accessible.

8 Reset the fuser maintenance counter.

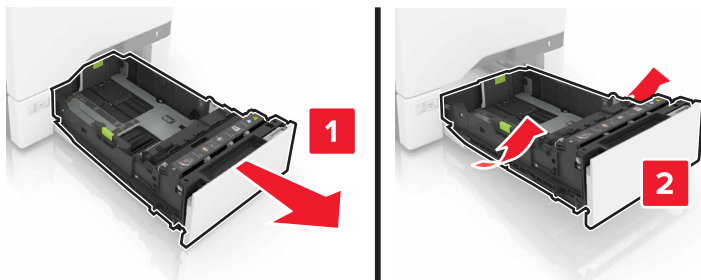
For more information, see [“Resetting the maintenance counter” on page 61.](#)

Replacing the pick roller

Replacing the pick roller in the 550-sheet tray

1 Turn off the printer, and then unplug the power cord from the electrical outlet.

2 Remove the tray.



3 Remove the pick roller.



4 Unpack the new pick roller.

- 5 Insert the new pick roller until it *clicks* into place.

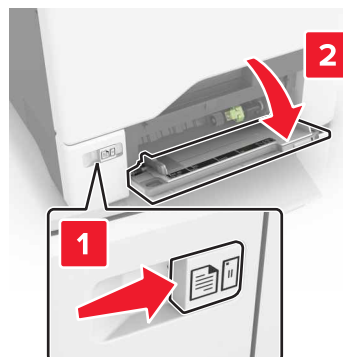


- 6 Insert the tray.
- 7 Connect the power cord to the electrical outlet, and then turn on the printer.

⚠ CAUTION—POTENTIAL INJURY: To avoid the risk of fire or electrical shock, connect the power cord to an appropriately rated and properly grounded electrical outlet that is near the product and easily accessible.

Replacing the pick roller in the multipurpose feeder

- 1 Turn off the printer, and then unplug the power cord from the electrical outlet.
- 2 Open the multipurpose feeder.



- 3 Remove the pick roller.



- 4 Unpack the new pick roller.

- 5 Insert the new pick roller until it *clicks* into place.



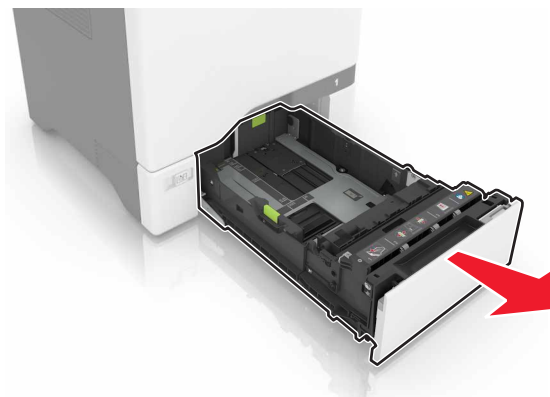
- 6 Close the multipurpose feeder.

- 7 Connect the power cord to the electrical outlet, and then turn on the printer.

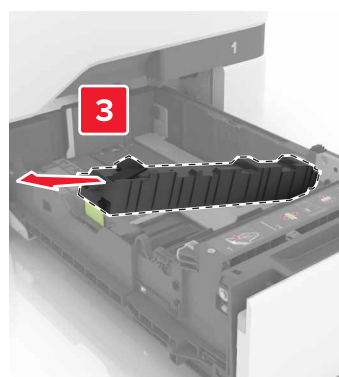
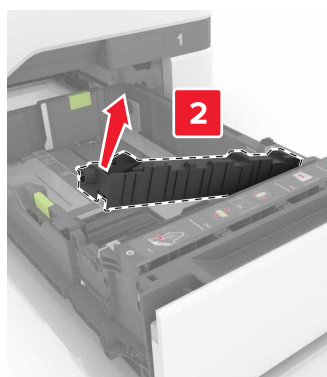
⚠ CAUTION—POTENTIAL INJURY: To avoid the risk of fire or electrical shock, connect the power cord to an appropriately rated and properly grounded electrical outlet that is near the product and easily accessible.

Replacing the separator pad

- 1 Pull out the tray.

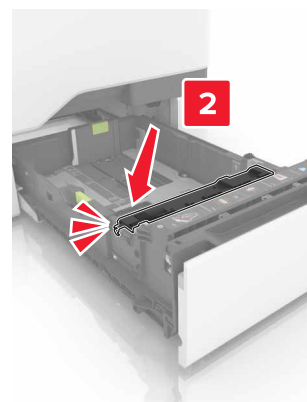
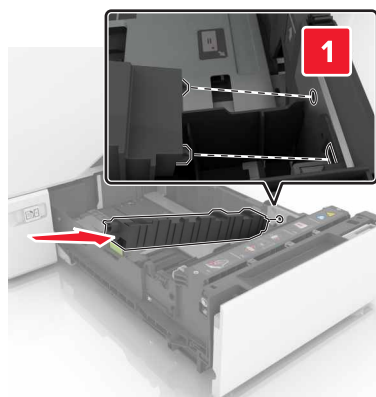


2 Remove the separator pad.



3 Unpack the new separator pad.

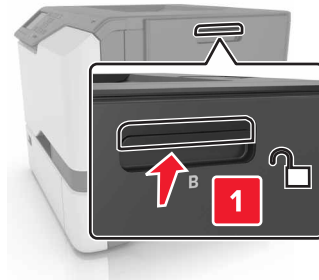
4 Insert the new separator pad until it *clicks* into place.



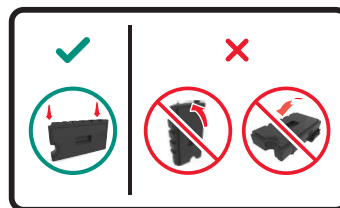
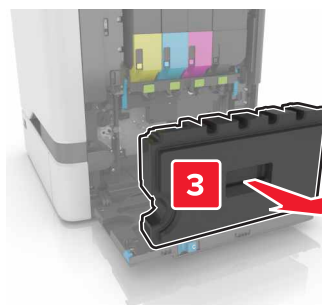
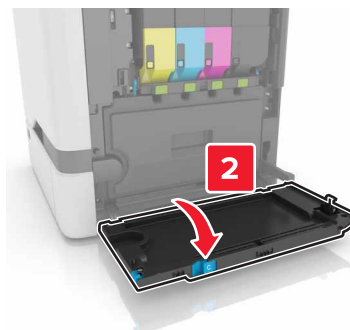
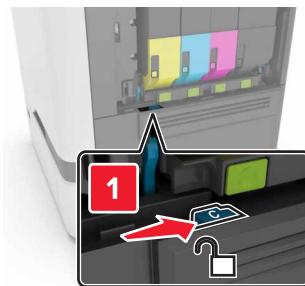
5 Insert the tray.

Replacing the transfer module

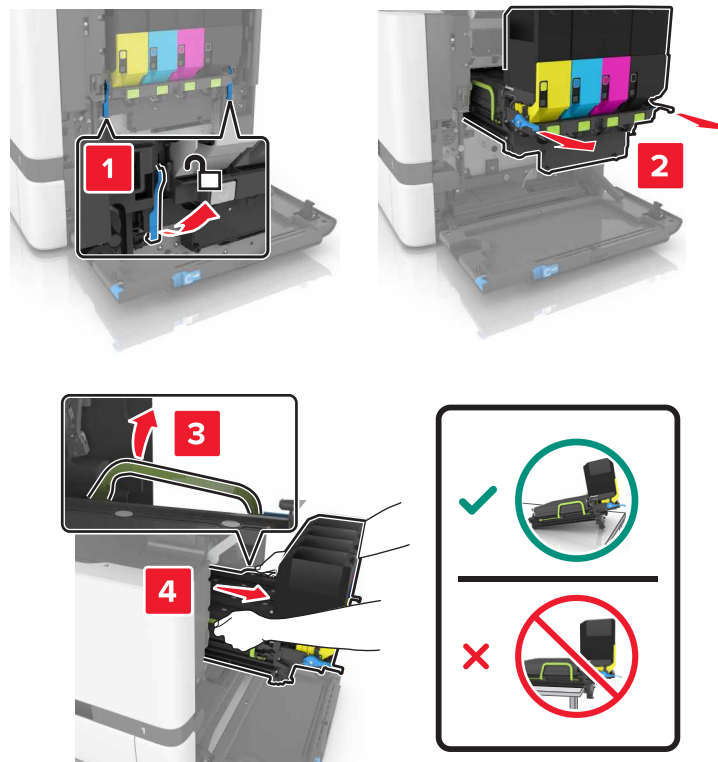
- 1 Turn off the printer, and then unplug the power cord from the electrical outlet.
- 2 Open door B.




- 3 Remove the waste toner bottle.

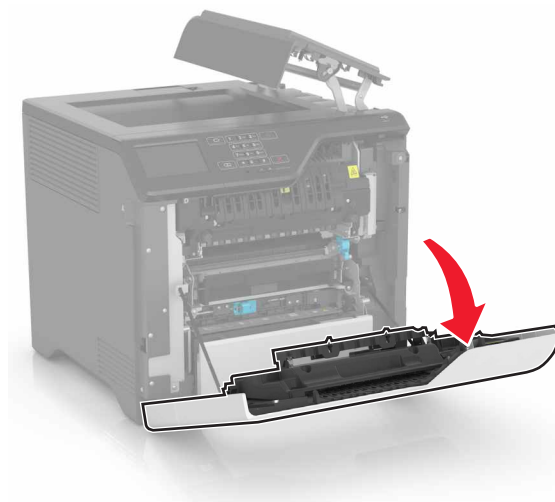


4 Remove the imaging kit.

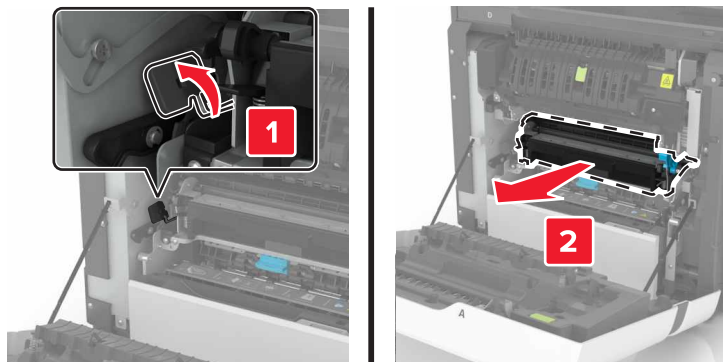


5 Open door A.

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

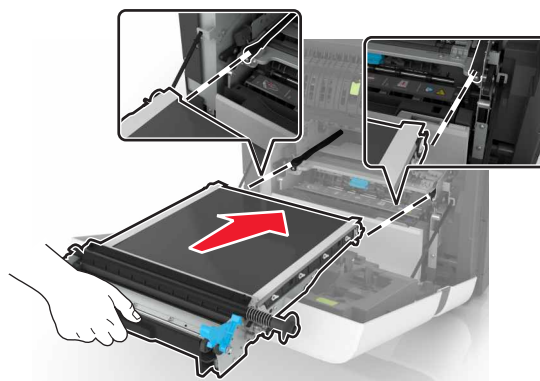


6 Remove the transfer module.

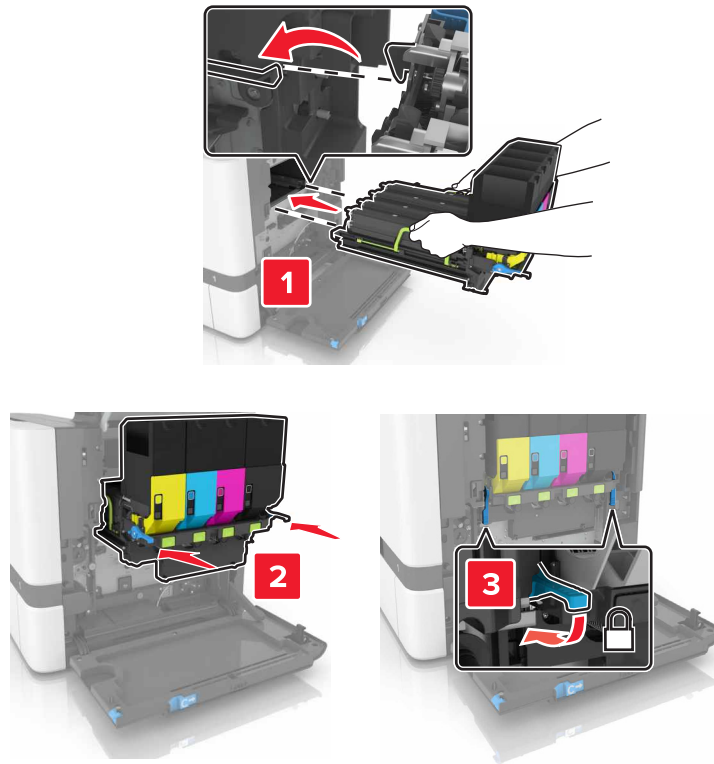
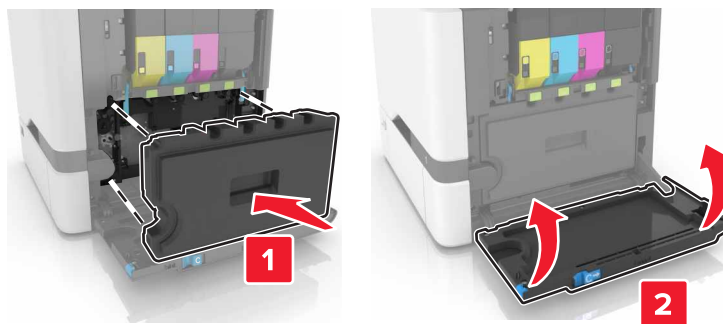


7 Unpack the new transfer module, and then remove the packing material.

8 Insert the new transfer module.



9 Close door A.

10 Insert the imaging kit.**11** Insert the waste toner bottle.**12** Close door B.**13** Connect the power cord to the electrical outlet, and then turn on the printer.

⚠ CAUTION—POTENTIAL INJURY: To avoid the risk of fire or electrical shock, connect the power cord to an appropriately rated and properly grounded electrical outlet that is near the product and easily accessible.


14 Reset the maintenance counter. For more information, see [“Resetting the maintenance counter” on page 61.](#)


Resetting the maintenance counter


- 1 From the home screen, touch **Settings > Device > Maintenance > Configuration Menu > Supply Usage And Counters**.
- 2 Select **Fuser Reset** or **ITM Reset**.

Moving the printer

Moving the printer to another location

 **CAUTION—POTENTIAL INJURY:** If the printer weight is greater than 20 kg (44 lb), then it may require two or more people to lift it safely.

 **CAUTION—POTENTIAL INJURY:** To avoid the risk of fire or electrical shock, use only the power cord provided with this product or the manufacturer's authorized replacement.

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

- Make sure that all doors and trays are closed.
- Turn off the printer, and then unplug the power cord from the electrical outlet.
- Disconnect all cords and cables from the printer.
- If the printer has separate floor-standing optional trays or output options attached to it, then disconnect them before moving the printer.
- If the printer has a caster base, then carefully roll it to the new location. Use caution when passing over thresholds and breaks in flooring.
- If the printer does not have a caster base but is configured with optional trays or output options, then remove the output options and lift the printer off the trays. Do not try to lift the printer and any options at the same time.
- Always use the handholds on the printer to lift it.
- 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 hardware options must have a surface able to support the dimensions of the options.
- Keep the printer in an upright position.
- Avoid severe jarring movements.
- Make sure that your fingers are not under the printer when you set it down.
- Make sure that there is adequate clearance around the printer.

Note: Damage to the printer caused by improper moving is not covered by the printer warranty.

Shipping the printer

For shipping instructions, go to <http://support.lexmark.com> or contact customer support.

Saving energy and paper

Setting up power saver modes

Eco-Mode

- 1 From the home screen, touch **Settings > Device > Power Management > Eco-Mode**.
- 2 Select a setting.

Sleep mode

- 1 From the home screen, touch **Settings > Device > Power Management > Timeouts > Sleep Mode**.
- 2 Enter the number of minutes the printer stays idle before it enters Sleep mode.

Hibernate mode

- 1 From the home screen, touch **Settings > Device > Power Management > Timeouts > Hibernate Timeout**.
- 2 Select the amount of time before the printer enters hibernate mode.

Notes:

- Make sure to wake the printer from hibernate mode before sending a print job.
- The Embedded Web Server is disabled when the printer is in hibernate mode.

Adjusting the brightness of the printer display

- 1 From the home screen, touch **Settings > Device > Preferences > Screen Brightness**.
- 2 Adjust the setting.

Conserving supplies

- Print on both sides of the paper.
Note: Two-sided printing is the default setting in the print driver.
- Print multiple pages on a single sheet of paper.
- Use the preview feature to see how the document looks like before printing it.
- Print one copy of the document to check its content and format for accuracy.

Recycling

Recycling Lexmark products

To return Lexmark products for recycling:

- 1 Go to www.lexmark.com/recycle.
- 2 Select the product you want to recycle.

Note: Printer supplies and hardware not listed in the Lexmark Collection and Recycling Program may be recycled through your local recycling center.

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 also offers recycling of packaging components in some countries or regions. For more information, go to www.lexmark.com/recycle, and then choose your country or region. Information on available packaging recycling programs is included with the information on product recycling.

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 recycles the box.

Returning Lexmark cartridges for reuse or recycling

The Lexmark Cartridge Collection Program allows you to return used cartridges for free to Lexmark for reuse or recycling. One hundred percent of the empty cartridges returned to Lexmark are either reused or demanufactured for recycling. The boxes used to return the cartridges are also recycled.

To return Lexmark cartridges for reuse or recycling, do the following:

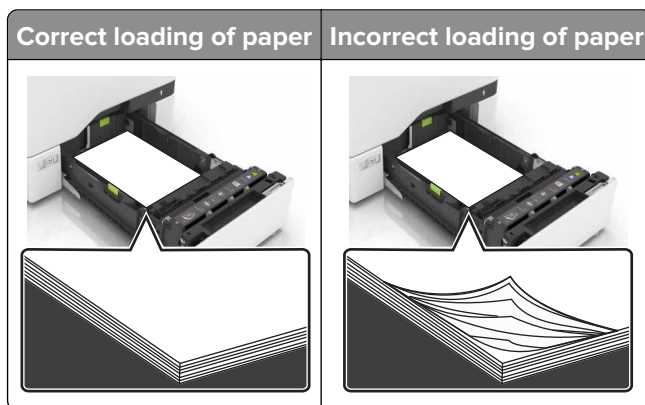
- 1 Go to www.lexmark.com/recycle.
- 2 Select the product that you want to recycle.

Clearing jams

Avoiding jams

Load paper properly

- Make sure that the paper lies flat in the tray.



- Do not load or remove a tray while the printer is printing.
- Do not load too much paper. Make sure that the stack height is below the maximum paper fill indicator.
- Do not slide paper into the tray. Load paper as shown in the illustration.

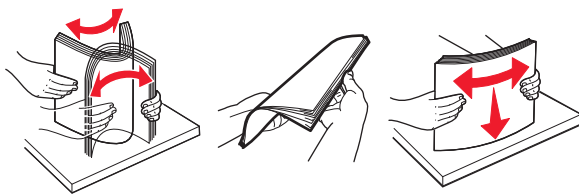


- Make sure that the paper guides are positioned correctly and are not pressing tightly against the paper or envelopes.
- Push the tray firmly into the printer after loading paper.

Use recommended paper

- Use only recommended paper or specialty media.
- Do not load paper that is wrinkled, creased, damp, bent, or curled.

- Flex, fan, and align the paper edges before loading.

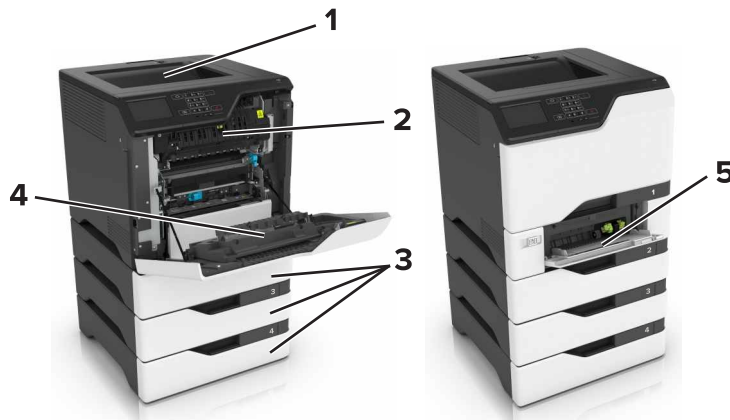


- Do not use paper that has been cut or trimmed by hand.
- Do not mix paper sizes, weights, or types in the same tray.
- Make sure that the paper size and type are set correctly on the computer or printer control panel.
- Store paper according to manufacturer recommendations.

Identifying jam locations

Notes:

- When Jam Assist is set to On, the printer flushes blank pages or pages with partial prints after a jammed page has been cleared. Check your printed output for blank pages.
- When Jam Recovery is set to On or Auto, the printer reprints jammed pages.



Jam locations	
1	Standard bin
2	Fuser
3	Trays
4	Duplex unit
5	Multipurpose feeder

Paper jam in trays

- 1 Pull out the tray.



Warning—Potential Damage: A sensor inside the optional tray is easily damaged by static electricity. Touch a metal surface before removing the jammed paper in the tray.

- 2 Remove the jammed paper.

Note: Make sure that all paper fragments are removed.

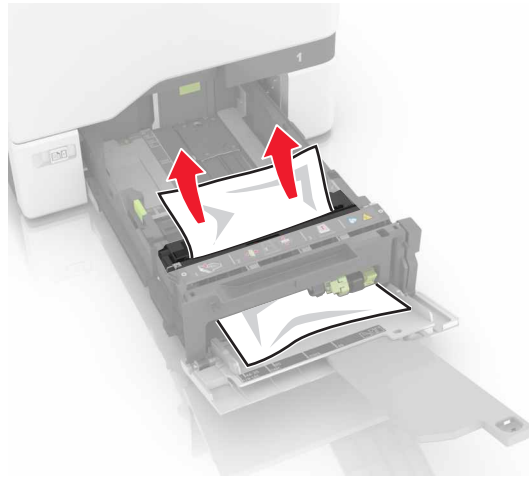


- 3 Insert the tray.

Paper jam in the multipurpose feeder

- 1 Remove paper from the multipurpose feeder.
- 2 Pull out the tray.
- 3 Remove the jammed paper.

Note: Make sure that all paper fragments are removed.



- 4 Insert the tray.

Paper jam in the standard bin

- 1 Remove the jammed paper.

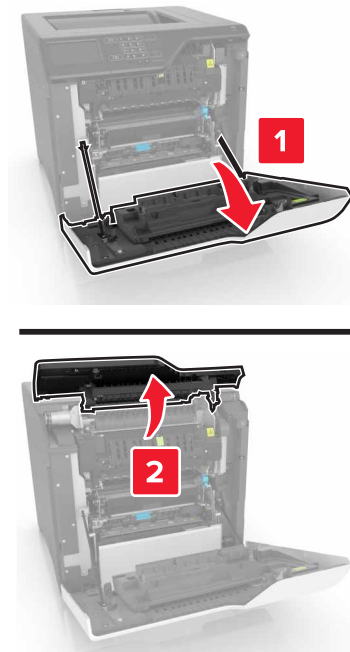
Note: Make sure that all paper fragments are removed.



- 2 Open doors A and D, and then remove any paper fragments.



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




3 Close doors D and A.

Paper jam in door A

Paper jam in the fuser

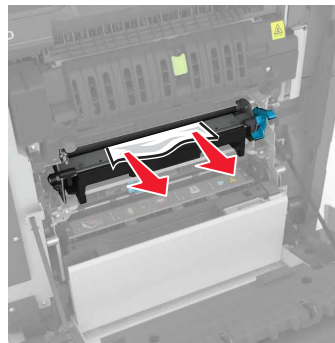
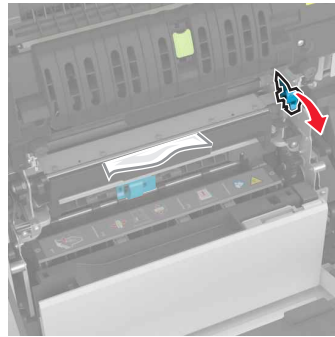
1 Open door A.

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

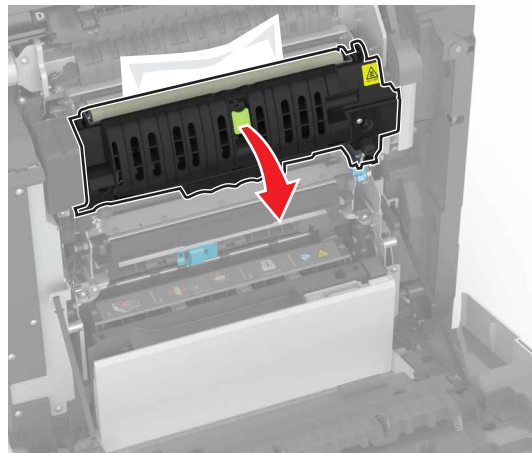


2 Remove the jammed paper.

Note: Make sure that all paper fragments are removed.

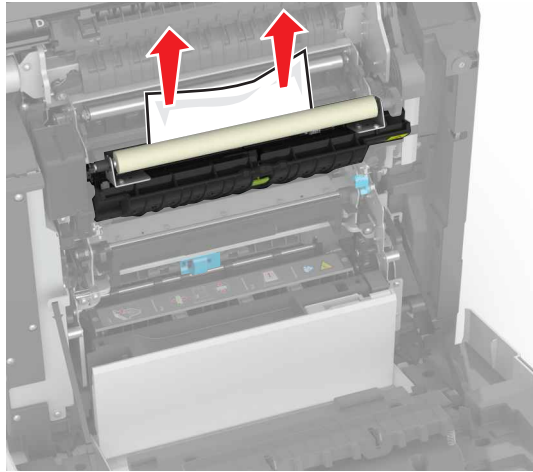


3 Open the fuser access door.



4 Remove the jammed paper.


Note: Make sure that all paper fragments are removed.



5 Close door A.

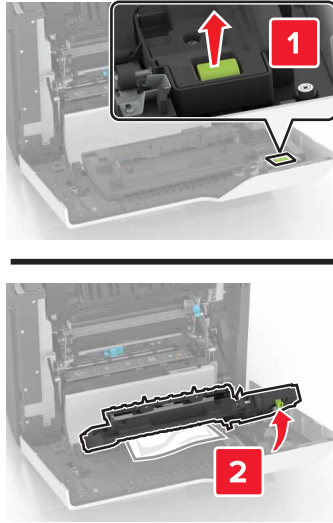
Paper jam in the duplex unit

1 Open door A.

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

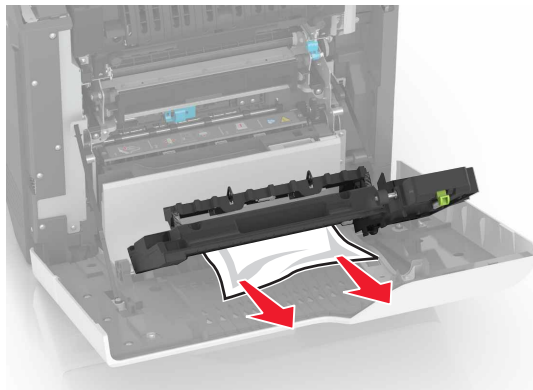


2 Open the duplex cover.



3 Remove the jammed paper.

Note: Make sure that all paper fragments are removed.



4 Close the duplex cover and door A.

Troubleshooting

Network connection problems

Cannot open Embedded Web Server

Action	Yes	No
<p>Step 1</p> <p>Check if you are using a supported browser:</p> <ul style="list-style-type: none"> • Internet Explorer® version 9 or later • Safari version 8.0.3 or later • Google Chrome™ • Mozilla Firefox <p>Is your browser supported?</p>	Go to step 2.	Install a supported browser.
<p>Step 2</p> <p>Make sure that the printer IP address is correct.</p> <p>View the printer IP address:</p> <ul style="list-style-type: none"> • From the home screen • From the TCP/IP section in the Network/Ports menu • By printing a network setup page or menu settings page, and then finding the TCP/IP section <p>Note: An IP address appears as four sets of numbers separated by periods, such as 123.123.123.123.</p> <p>Is the printer IP address correct?</p>	Go to step 3.	Type the correct printer IP address in the address field.
<p>Step 3</p> <p>Check if the printer is on.</p> <p>Is the printer on?</p>	Go to step 4.	Turn on the printer.
<p>Step 4</p> <p>Check if the network connection is working.</p> <p>Is the network connection working?</p>	Go to step 5.	Contact your administrator.
<p>Step 5</p> <p>Make sure that the cable connections to the printer and print server are secure.</p> <p>For more information, see the setup documentation that came with the printer.</p> <p>Are the cable connections secure?</p>	Go to step 6.	Secure the cable connections.

Action	Yes	No
<p>Step 6 Check if the web proxy servers are disabled.</p> <p>Are the web proxy servers disabled?</p>	Go to step 7.	Contact your administrator.
<p>Step 7 Access the Embedded Web Server.</p> <p>Did the Embedded Web Server open?</p>	The problem is solved.	Contact customer support .

Unable to read flash drive

Action	Yes	No
<p>Step 1 Check if the flash drive is inserted into the front USB port.</p> <p>Note: The flash drive does not work when it is inserted into the rear USB port.</p> <p>Is the flash drive inserted into the front USB port?</p>	Go to step 2.	The problem is solved.
<p>Step 2 Check if the flash drive is supported. For more information, see “Supported flash drives and file types” on page 29</p> <p>Does the error message still appear?</p>	Go to step 3.	The problem is solved.
<p>Step 3 Check if the front USB port is disabled. For more information, see “Enabling the USB port” on page 73.</p> <p>Does the error message still appear?</p>	Contact customer support .	The problem is solved.

Enabling the USB port


From the home screen, touch **Settings > Network/Ports > USB > Enable USB Port**.

Checking the printer connectivity

- 1 From the home screen, touch **Settings > Reports > Network > 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 be inactive, or the network cable may be unplugged or malfunctioning. Contact your administrator for assistance.

Hardware options problems

Cannot detect internal option

Action	Yes	No
<p>Step 1 Turn off the printer, wait for about 10 seconds, and then turn it back on.</p> <p>Does the internal option operate correctly?</p>	The problem is solved.	Go to step 2.
<p>Step 2 Print a menu settings page, and then check if the internal option appears in the Installed Features list.</p> <p>Is the internal option listed in the menu settings page?</p>	Go to step 4.	Go to step 3.
<p>Step 3 Check if the internal option is properly installed in the controller board.</p> <ul style="list-style-type: none"> a Turn off the printer, and then unplug the power cord from the electrical outlet. b Make sure that the internal option is installed in the appropriate connector in the controller board. c Connect the power cord to the electrical outlet, and then turn on the printer. <p> CAUTION—POTENTIAL INJURY: To avoid the risk of fire or electrical shock, connect the power cord to an appropriately rated and properly grounded electrical outlet that is near the product and easily accessible.</p> <p>Does the internal option operate correctly?</p>	The problem is solved.	Go to step 4.
<p>Step 4 a Check if the internal option is available in the print driver. Note: If necessary, manually add the internal option in the print driver to make it available for print jobs. For more information, see “Adding available options in the print driver” on page 120.</p> <ul style="list-style-type: none"> b Resend the print job. <p>Does the internal option operate correctly?</p>	The problem is solved.	Contact customer support .

Internal solutions port does not operate correctly

Action	Yes	No
<p>Step 1 Print a menu settings page, and then check if the internal solutions port (ISP) appears in the Installed Features list.</p> <p>Is the ISP listed in the Installed Features list?</p>	Go to step 3.	Go to step 2.
<p>Step 2 Remove, and then install the ISP. For more information, see “Installing an internal solutions port” on page 108.</p> <p>Note: Use a supported ISP.</p> <p>Does the ISP operate correctly?</p>	The problem is solved.	Go to step 3.
<p>Step 3 Check the cable and the ISP connection.</p> <ul style="list-style-type: none"> a Use the correct cable, and then make sure that it is securely connected to the ISP. b Check if the ISP solution interface cable is securely connected into the receptacle of the controller board. <p>Does the ISP operate correctly?</p>	The problem is solved.	Contact customer support .

Parallel or serial interface card does not operate correctly

Action	Yes	No
<p>Step 1 Print a menu settings page, and then check if the parallel or serial interface card appears in the Installed Features list.</p> <p>Is the parallel or serial interface card listed in the Installed Features list?</p>	Go to step 3.	Go to step 2.
<p>Step 2 Remove, and then install the parallel or serial interface card. For more information, see “Installing an internal solutions port” on page 108.</p> <p>Does the parallel or serial interface card operate correctly?</p>	The problem is solved.	Go to step 3.
<p>Step 3 Check the connection between the cable and the parallel or serial interface card.</p> <p>Does the parallel or serial interface card operate correctly?</p>	The problem is solved.	Contact customer support .

Defective flash detected

Try one or more of the following:

- Replace the defective flash memory.
- From the printer control panel, select **Continue** to ignore the message and continue printing.
- Cancel the current print job.

Not enough free space in flash memory for resources

Try one or more of the following:

- From the printer control panel, select **Continue** to clear the message and continue printing.
- Delete fonts, macros, and other data stored in the flash memory.
- Install flash memory with larger capacity.

Note: Downloaded fonts and macros that are not previously stored in the flash memory are deleted.

Unformatted flash detected

Try one or more of the following:

- From the control panel, select **Continue** to stop the defragmentation and continue printing.
- Format the flash memory.

Note: If the error message remains, then the flash memory may be defective and needs to be replaced.

Issues with supplies

Replace cartridge, printer region mismatch

To correct this problem, purchase a cartridge with the correct region that matches the printer region, or purchase a worldwide cartridge.

- The first number in the message after 42 indicates the region of the printer.
- The second number in the message after 42 indicates the region of the cartridge.

Printer and toner cartridge regions

Region	Numeric code
Worldwide or Undefined region	0
North America (United States, Canada)	1
European Economic Area, Western Europe, Nordic countries, Switzerland	2
Asia Pacific	3
Latin America	4
Rest of Europe, Middle East, Africa	5
Australia, New Zealand	6

Region	Numeric code
Invalid region	9

Note: To find the region settings of the printer and toner cartridge, print the print quality test pages. From the control panel, navigate to: **Settings > Troubleshooting > Print Quality Test Pages.**

Non-Lexmark supply

The printer has detected a non-Lexmark supply or part installed in the printer.

Your Lexmark printer is designed to function best with genuine Lexmark supplies and parts. Use of third-party supplies or parts may affect the performance, reliability, or life of the printer and its imaging components.

All life indicators are designed to function with Lexmark supplies and parts and may deliver unpredictable results if third-party supplies or parts are used. Imaging component usage beyond the intended life may damage your Lexmark printer or associated components.

Warning—Potential Damage: Use of third-party supplies or parts can affect warranty coverage. Damage caused by the use of third-party supplies or parts may not be covered by the warranty.

To accept any and all of these risks and to proceed with the use of non-genuine supplies or parts in your printer, from the control panel, press and hold **X** and **#** simultaneously for 15 seconds.

If you do not want to accept these risks, then remove the third-party supply or part from your printer and install a genuine Lexmark supply or part. For more information, see [“Using genuine Lexmark parts and supplies” on page 37.](#)

If the printer does not print after pressing and holding **X** and **#** simultaneously for 15 seconds, then reset the supply usage counter.

- 1 From the control panel, navigate to:
Settings > Device > Maintenance > Configuration Menu > Supply Usage And Counters
- 2 Select the part or supply that you want to reset, and then select **Start**.
- 3 Read the warning message, and then select **Continue**.
- 4 Press and hold **X** and **#** simultaneously for 15 seconds to clear the message.

Note: If you are unable to reset the supply usage counters, then return the item to the place of purchase.

Paper feed problems

Envelope seals when printing

Action	Yes	No
<p>1 Use envelopes that have been stored in a dry environment.</p> <p>Note: Printing on envelopes with high moisture content can seal the flaps.</p> <p>2 Resend the print job.</p> <p>Does the envelope seal when printing?</p>	<p>Contact customer support.</p>	<p>The problem is solved.</p>

Collated printing does not work

Action	Yes	No
<p>Step 1</p> <p>a From the home screen, touch Settings > Print > Layout > Collate.</p> <p>b Set Collate to On.</p> <p>c Print the document.</p> <p>Are the pages collated correctly?</p>	<p>The problem is solved.</p>	<p>Go to step 2.</p>
<p>Step 2</p> <p>a From the document that you are trying to print, open the Print dialog, and then select Collate.</p> <p>b Print the document.</p> <p>Are the pages collated correctly?</p>	<p>The problem is solved.</p>	<p>Go to step 3.</p>
<p>Step 3</p> <p>a Reduce the number of pages to print.</p> <p>b Print the document.</p> <p>Are the pages collated correctly?</p>	<p>The problem is solved.</p>	<p>Contact customer support.</p>

Paper curl

Action	Yes	No
<p>Step 1 Move the paper guides in the tray to the correct position for the paper loaded.</p> <p>Is the paper still curled?</p>	Go to step 2.	The problem is solved.
<p>Step 2 a Depending on your operating system, specify the paper type and weight from the Printing Preferences or Print dialog.</p> <p>Notes:</p> <ul style="list-style-type: none"> • Make sure that the settings match the paper loaded in the tray. • You can also change the settings on the printer control panel. <p>b Resend the print job.</p> <p>Is the paper still curled?</p>	Go to step 3.	The problem is solved.
<p>Step 3 a Remove paper from the tray, and then turn it over. b Resend the print job.</p> <p>Is the paper still curled?</p>	Go to step 4.	The problem is solved.
<p>Step 4 a Load paper from a fresh package. Note: Paper absorbs moisture due to high humidity. Store paper in its original wrapper until you are ready to use it. b Resend the print job.</p> <p>Is the paper still curled?</p>	Contact customer support .	The problem is solved.

Tray linking does not work

Action	Yes	No
<p>Step 1 a Check if the trays contain paper of the same size and type. b Check if the paper guides are positioned correctly. c Print the document.</p> <p>Do the trays link correctly?</p>	The problem is solved.	Go to step 2.

Action	Yes	No
<p>Step 2</p> <p>a From the home screen, touch Settings > Paper > Tray Configuration > Paper Size/Type.</p> <p>b Set the paper size and type to match the paper loaded in the linked trays.</p> <p>c Print the document.</p> <p>Do the trays link correctly?</p>	<p>The problem is solved.</p>	<p>Contact customer support.</p>

Check tray connection

Try one or more of the following:

- Turn off the printer, wait for about 10 seconds, and then turn it back on.

If the error occurs a second time, then:

- 1 Turn off the printer.
- 2 Unplug the power cord from the electrical outlet.
- 3 Remove the indicated tray.
- 4 Insert the tray.
- 5 Connect the power cord to the electrical outlet.



CAUTION—POTENTIAL INJURY: To avoid the risk of fire or electrical shock, connect the power cord to an appropriately rated and properly grounded electrical outlet that is near the product and easily accessible.

- 6 Turn on the printer.

If the error occurs again, then:

- 1 Turn off the printer.
 - 2 Unplug the power cord from the electrical outlet.
 - 3 Remove the indicated tray.
 - 4 Contact customer support.
- From the control panel, select **Continue** to clear the message and resume printing.

Paper frequently jams

Action	Yes	No
<p>Step 1</p> <p>a Pull out the tray.</p> <p>b Check if the paper is loaded correctly.</p> <p>Notes:</p> <ul style="list-style-type: none"> • Make sure that the paper guides are positioned correctly. • Make sure that the stack height is below the maximum paper fill indicator. • Make sure to print on recommended paper size and type. <p>c Insert the tray.</p> <p>d Print the document.</p> <p>Do paper jams still occur frequently?</p>	Go to step 2.	The problem is solved.
<p>Step 2</p> <p>a From the Paper menu on the control panel, check if the printer is detecting the correct paper size.</p> <p>b Resend the print job.</p> <p>Do paper jams still occur frequently?</p>	Go to step 3.	The problem is solved.
<p>Step 3</p> <p>a Load paper from a fresh package.</p> <p>b Print the document.</p> <p>Do paper jams still occur frequently?</p>	Contact customer support .	The problem is solved.

Jammed pages are not reprinted

Action	Yes	No
<p>a From the home screen, touch Settings > Device > Notifications > Jam Content Recovery.</p> <p>b Select On or Auto.</p> <p>c Apply the changes.</p> <p>Are the jammed pages reprinted?</p>	The problem is solved.	Contact customer support .

Printing problems

Confidential and other held documents do not print

Action	Yes	No
<p>Step 1</p> <p>a From the control panel, check if the documents appear in the Held Jobs list.</p> <p>Note: If the documents are not listed, then print the documents using the Print and Hold options.</p> <p>b Print the documents.</p> <p>Are the documents printed?</p>	The problem is solved.	Go to step 2.
<p>Step 2</p> <p>The print job may contain a formatting error or invalid data.</p> <ul style="list-style-type: none"> • Delete the print job, and then send it again. • For PDF files, generate a new file, and then print the documents. <p>Are the documents printed?</p>	The problem is solved.	Go to step 3.
<p>Step 3</p> <p>If you are printing from the Internet, then the printer may be reading the multiple job titles as duplicates.</p> <p>For Windows users</p> <p>a Open the Printing Preferences dialog.</p> <p>b From the Print and Hold section, select Keep duplicate documents.</p> <p>c Enter a PIN.</p> <p>d Resend the print job.</p> <p>For Macintosh users</p> <p>a Save and name each job differently.</p> <p>b Send the job individually.</p> <p>Are the documents printed?</p>	The problem is solved.	Go to step 4.
<p>Step 4</p> <p>a Delete some held jobs to free up printer memory.</p> <p>b Resend the print job.</p> <p>Are the documents printed?</p>	The problem is solved.	Go to step 5.

Action	Yes	No
<p>Step 5</p> <p>a Add printer memory.</p> <p>b Resend the print job.</p> <p>Are the documents printed?</p>	The problem is solved.	Contact customer support .

Slow printing

Action	Yes	No
<p>Step 1</p> <p>a Make sure that the printer is not in Eco-Mode and Quiet Mode.</p> <p>b Print the document.</p> <p>Is the printer printing slow?</p>	Go to step 2.	The problem is solved.
<p>Step 2</p> <p>a Depending on your operating system, specify the paper type from the Printing Preferences or Print dialog.</p> <p>Notes:</p> <ul style="list-style-type: none"> • Make sure that the setting matches the paper loaded in the tray. • You can also change the setting on the printer control panel. <p>b Print the document.</p> <p>Is the printer printing slow?</p>	Go to step 3.	The problem is solved.
<p>Step 3</p> <p>a Reduce the number of pages to print.</p> <p>b Print the document.</p> <p>Is the printer printing slow?</p>	Go to step 4.	The problem is solved.
<p>Step 4</p> <p>a Remove held jobs.</p> <p>b Print the document.</p> <p>Is the printer printing slow?</p>	Go to step 5.	The problem is solved.
<p>Step 5</p> <p>a Connect the printer cable securely to the printer and the computer, print server, option, or other network device.</p> <p>b Print the document.</p> <p>Is the printer printing slow?</p>	Go to step 6.	The problem is solved.

Action	Yes	No
<p>Step 6</p> <p>a From the Quality menu on the control panel, set the Print Resolution to 4800CQ.</p> <p>b Print the document.</p> <p>Is the printer printing slow?</p>	Go to step 7.	The problem is solved.
<p>Step 7</p> <p>a Make sure that the printer is not overheating.</p> <p>Notes:</p> <ul style="list-style-type: none"> • Allow the printer to cool down after a long print job. • Observe the recommended ambient temperature for the printer. For more information, see “Selecting a location for the printer” on page 9. <p>b Print the document.</p> <p>Is the printer printing slow?</p>	Go to step 8.	The problem is solved.
<p>Step 8</p> <p>a Add more printer memory.</p> <p>b Print the document.</p> <p>Is the printer printing slow?</p>	Contact customer support .	The problem is solved.

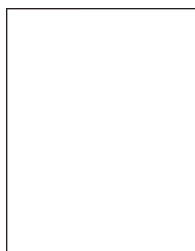
Print jobs do not print

Action	Yes	No
<p>Step 1</p> <p>a From the document you are trying to print, open the Print dialog, and then check if you have selected the correct printer.</p> <p>b Resend the print job.</p> <p>Is the document printed?</p>	The problem is solved.	Go to step 2.
<p>Step 2</p> <p>a Check if the printer is on.</p> <p>b Resolve any error messages that appear on the display.</p> <p>c Resend the print job.</p> <p>Is the document printed?</p>	The problem is solved.	Go to step 3.

Action	Yes	No
<p>Step 3</p> <p>a Check if the ports are working and if the cables are securely connected to the computer and the printer. For more information, see the setup documentation that came with the printer.</p> <p>b Resend the print job.</p> <p>Is the document printed?</p>	The problem is solved.	Go to step 4.
<p>Step 4</p> <p>a Turn off the printer, wait for about 10 seconds, and then turn it back on.</p> <p>b Resend the print job.</p> <p>Is the document printed?</p>	The problem is solved.	Go to step 5.
<p>Step 5</p> <p>a Remove, and then reinstall the printer software. Note: The printer software is available at http://support.lexmark.com.</p> <p>b Resend the print job.</p> <p>Is the document printed?</p>	The problem is solved.	Contact customer support .

Print quality is poor

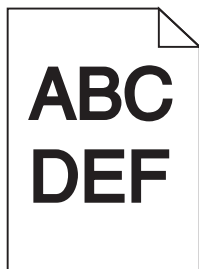
Blank or white pages



Note: Before solving the problem, print the quality sample pages to determine the missing color. From the home screen, touch **Settings** > **Troubleshooting** > **Basic Print Quality Pages**.

Action	Yes	No
<p>Step 1</p> <p>a Remove, and then reinstall the imaging unit or imaging kit.</p> <p>Warning—Potential Damage: Do not expose the imaging unit or imaging kit to direct light for more than 10 minutes. Extended exposure to light may cause print quality problems.</p> <p>Warning—Potential Damage: To avoid damage, do not touch the underside of the imaging unit or imaging kit.</p> <p>b Print a document.</p> <p>Is the printer still printing blank or white pages?</p>	Go to step 2.	The problem is solved.
<p>Step 2</p> <p>a Replace the imaging unit or imaging kit.</p> <p>Warning—Potential Damage: Do not expose the imaging unit or imaging kit to direct light for more than 10 minutes. Extended exposure to light may cause print quality problems.</p> <p>Warning—Potential Damage: To avoid damage, do not touch the underside of the imaging unit or imaging kit.</p> <p>b Print a document.</p> <p>Is the printer still printing blank or white pages?</p>	Contact customer support .	The problem is solved.

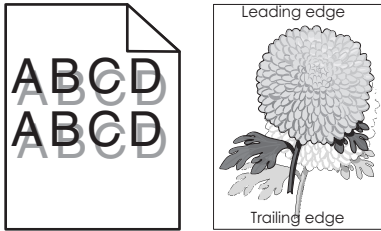
Dark print



Action	Yes	No
<p>Step 1</p> <p>a From the Quality menu on the control panel, select Color Adjust.</p> <p>b Resend the print job.</p> <p>Is the print still too dark?</p>	Go to step 2.	The problem is solved.

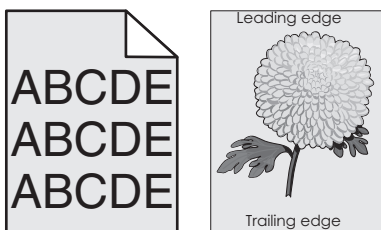
Action	Yes	No
<p>Step 2</p> <p>a Depending on your operating system, reduce the toner darkness from the Printing Preferences or Print dialog.</p> <p>Note: You can also change the settings on the printer control panel.</p> <p>b Resend the print job.</p> <p>Is the print still too dark?</p>	<p>Go to step 3.</p>	<p>The problem is solved.</p>
<p>Step 3</p> <p>a Depending on your operating system, specify the paper type, texture, and weight from the Printing Preferences or Print dialog.</p> <p>Notes:</p> <ul style="list-style-type: none"> • Make sure that the settings match the paper loaded in the tray. • You can also change the settings on the printer control panel. <p>b Resend the print job.</p> <p>Is the print still too dark?</p>	<p>Go to step 4.</p>	<p>The problem is solved.</p>
<p>Step 4</p> <p>Make sure that the paper has no texture or rough finishes.</p> <p>Are you printing on textured or rough paper?</p>	<p>Change the texture settings to match the paper you are printing on.</p>	<p>Go to step 5.</p>
<p>Step 5</p> <p>a Load paper from a fresh package.</p> <p>Note: Paper absorbs moisture due to high humidity. Store paper in its original wrapper until you are ready to use it.</p> <p>b Resend the print job.</p> <p>Is the print still too dark?</p>	<p>Go to step 6.</p>	<p>The problem is solved.</p>
<p>Step 6</p> <p>a Remove, and then reinstall the waste toner bottle.</p> <p>b From the Quality menu on the control panel, select Color Adjust.</p> <p>c Resend the print job.</p> <p>Is the print still too dark?</p>	<p>Contact customer support.</p>	<p>The problem is solved.</p>

Ghost images



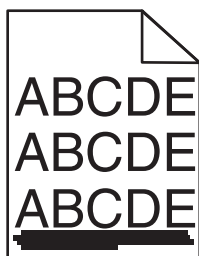
Action	Yes	No
<p>Step 1</p> <p>a Load the tray with the correct paper type and weight.</p> <p>b Resend the print job.</p> <p>Do ghost images still appear on prints?</p>	Go to step 2.	The problem is solved.
<p>Step 2</p> <p>a Depending on your operating system, specify the paper type and weight from the Printing Preferences or Print dialog.</p> <p>Notes:</p> <ul style="list-style-type: none"> • Make sure that the settings match the paper loaded in the tray. • You can also change the settings on the printer control panel. <p>b Resend the print job.</p> <p>Do ghost images still appear on prints?</p>	Go to step 3.	The problem is solved.
<p>Step 3</p> <p>a From the Quality menu on the control panel, select Color Adjust.</p> <p>b Resend the print job.</p> <p>Do ghost images still appear on prints?</p>	Contact customer support .	The problem is solved.

Gray background



Action	Yes	No
<p>Step 1</p> <p>a From the home screen, touch Settings > Print > Quality.</p> <p>b Adjust the toner darkness.</p> <p>c Print the document.</p> <p>Does gray background still appear on prints?</p>	Go to step 2.	The problem is solved.
<p>Step 2</p> <p>a From the home screen, touch Settings > Print > Quality > Advanced Imaging > Color Adjust.</p> <p>b Start the process.</p> <p>c Print the document.</p> <p>Does gray background still appear on prints?</p>	Go to step 3.	The problem is solved.
<p>Step 3</p> <p>a Remove, and then reinstall the imaging unit or imaging kit.</p> <p>Warning—Potential Damage: Do not expose the imaging unit or imaging kit to direct light for more than 10 minutes. Extended exposure to light may cause print quality problems.</p> <p>Warning—Potential Damage: To avoid damage, do not touch the underside of the imaging unit or imaging kit.</p> <p>b Print the document.</p> <p>Does gray background still appear on prints?</p>	Contact customer support .	The problem is solved.

Horizontal dark lines

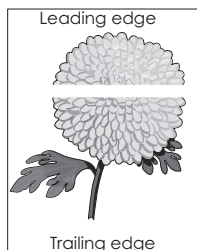


Note: If horizontal dark lines keep appearing on your prints, then see the “Repeating defects” topic.

Action	Yes	No
<p>Step 1</p> <p>a Depending on your operating system, specify the tray or feeder from the Printing Preferences or Print dialog.</p> <p>b Resend the print job.</p> <p>Do horizontal dark lines still appear on prints?</p>	Go to step 2.	The problem is solved.

Action	Yes	No
<p>Step 2</p> <p>a Depending on your operating system, specify the paper type and weight from the Printing Preferences or from Print dialog.</p> <p>Notes:</p> <ul style="list-style-type: none"> • Make sure that the settings match the paper loaded in the tray. • You can also change the settings on the printer control panel. <p>b Resend the print job.</p> <p>Do horizontal dark lines still appear on prints?</p>	Go to step 3.	The problem is solved.
<p>Step 3</p> <p>a Load paper from a fresh package.</p> <p>Note: Paper absorbs moisture due to high humidity. Store paper in its original wrapper until you use it.</p> <p>b Resend the print job.</p> <p>Do horizontal dark lines still appear on prints?</p>	Go to step 4.	The problem is solved.
<p>Step 4</p> <p>a Remove, and then reinstall the imaging unit or imaging kit.</p> <p>Warning—Potential Damage: Do not expose the imaging unit or imaging kit to direct light for more than 10 minutes. Extended exposure to light may cause print quality problems.</p> <p>Warning—Potential Damage: To avoid damage, do not touch the underside of the imaging unit or imaging kit.</p> <p>b Resend the print job.</p> <p>Do horizontal dark lines still appear on prints?</p>	Contact customer support .	The problem is solved.

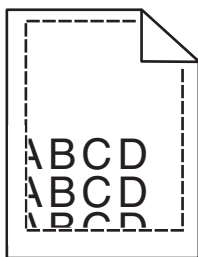
Horizontal white lines



Note: If horizontal dark lines keep appearing on your prints, then see the “Repeating defects” topic.

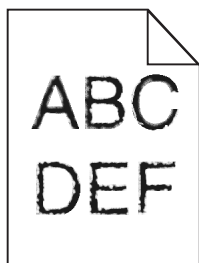
Action	Yes	No
<p>Step 1</p> <p>a Depending on your operating system, specify the paper type and weight from the Printing Preferences or Print dialog.</p> <p>Notes:</p> <ul style="list-style-type: none"> • Make sure that the settings match the paper loaded in the tray. • You can also change the settings on the printer control panel. <p>b Resend the print job.</p> <p>Do horizontal white lines still appear on prints?</p>	Go to step 2.	The problem is solved.
<p>Step 2</p> <p>a Load the specified tray or feeder with the recommended paper type.</p> <p>b Resend the print job.</p> <p>Do horizontal white lines still appear on prints?</p>	Go to step 3.	The problem is solved.
<p>Step 3</p> <p>a Remove, and then reinstall the imaging unit or imaging kit.</p> <p>Warning—Potential Damage: Do not expose the imaging unit or imaging kit to direct light for more than 10 minutes. Extended exposure to light can cause print quality problems.</p> <p>Warning—Potential Damage: To avoid damage, do not touch the underside of the imaging unit or imaging kit.</p> <p>b Resend the print job.</p> <p>Do horizontal white lines still appear on prints?</p>	Contact customer support .	The problem is solved.

Incorrect margins



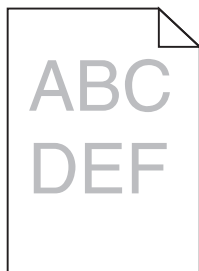
Action	Yes	No
<p>Step 1</p> <p>a Squeeze and slide the paper guides to the correct position for the size of the paper you are loading.</p> <p>b Resend the print job.</p> <p>Are the margins correct?</p>	The problem is solved.	Go to step 2.
<p>Step 2</p> <p>a From the Paper menu on the control panel, check if the printer is detecting the correct paper size.</p> <p>b Resend the print job.</p> <p>Are the margins correct?</p>	The problem is solved.	Go to step 3.
<p>Step 3</p> <p>a Depending on your operating system, specify the paper size from the Printing Preferences or Print dialog.</p> <p>Notes:</p> <ul style="list-style-type: none"> • Make sure that the settings match the paper loaded in the tray. • You can also change the settings on the printer control panel. <p>b Resend the print job.</p> <p>Are the margins correct?</p>	The problem is solved.	Contact customer support .

Jagged or uneven characters



Action	Yes	No
<p>a Check if the printer supports the fonts that are installed on your computer.</p> <p>1 From the control panel, touch: Settings > Reports > Print > Print Fonts</p> <p>2 Select PCL Fonts or PS Fonts.</p> <p>b If the font is not supported, then install a supported font. For more information, contact your administrator.</p> <p>c Resend the print job.</p> <p>Do prints still contain jagged or uneven characters?</p>	<p>Contact customer support.</p>	<p>The problem is solved.</p>

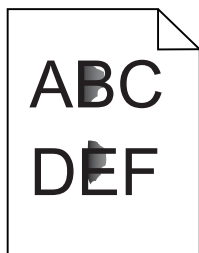
Light print



Action	Yes	No
<p>Step 1</p> <p>a From the Quality menu on the control panel, select Color Adjust.</p> <p>b Resend the print job.</p> <p>Is the print still too light?</p>	<p>Go to step 2.</p>	<p>The problem is solved.</p>
<p>Step 2</p> <p>a Depending on your operating system, increase the toner darkness from the Printing Preferences or Print dialog.</p> <p>Note: You can also change the settings on the printer control panel.</p> <p>b Resend the print job.</p> <p>Is the print still too light?</p>	<p>Go to step 3.</p>	<p>The problem is solved.</p>

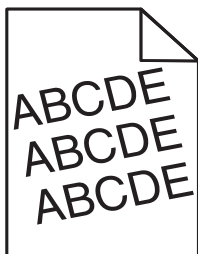
Action	Yes	No
<p>Step 3</p> <p>a Depending on your operating system, specify the paper type, texture, and weight from the Printing Preferences or Print dialog.</p> <p>Notes:</p> <ul style="list-style-type: none"> • Make sure that the settings match the paper loaded in the tray. • You can also change the settings on the printer control panel. <p>b Resend the print job.</p> <p>Is the print still too light?</p>	Go to step 4.	The problem is solved.
<p>Step 4</p> <p>Make sure that the paper has no texture or rough finishes.</p> <p>Are you printing on textured or rough paper?</p>	Change the texture settings to match the paper you are printing on.	Go to step 5.
<p>Step 5</p> <p>a Load paper from a fresh package.</p> <p>Note: Paper absorbs moisture due to high humidity. Store paper in its original wrapper until you are ready to use it.</p> <p>b Resend the print job.</p> <p>Is the print still too light?</p>	Go to step 6.	The problem is solved.
<p>Step 6</p> <p>a Remove, and then reinstall the waste toner bottle.</p> <p>b From the Quality menu on the control panel, select Color Adjust.</p> <p>Is the print still too light?</p>	Go to step 7.	The problem is solved.
<p>Step 7</p> <p>Remove, and then reinstall the imaging kit.</p> <p>Is the print still too light?</p>	Contact customer support .	The problem is solved.

Mottled print and dots



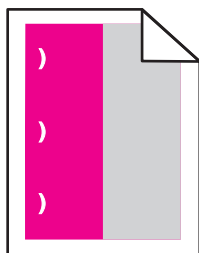
Action	Yes	No
<p>Step 1 Check the printer for leaked toner contamination.</p> <p>Is the printer free of leaked toner?</p>	Go to step 2.	Contact customer support .
<p>Step 2 a From the home screen, touch Settings > Device > Preferences. b Check if the paper type and size settings match the paper type and size set in the tray.</p> <p>Do the settings match?</p>	Go to step 4.	Go to step 3.
<p>Step 3 a Change the paper size and type in the Paper menu or adjust the size settings in the tray. b Print the document.</p> <p>Is the print still mottled?</p>	Go to step 4.	The problem is solved.
<p>Step 4 a Replace the textured or rough paper loaded in the tray with plain paper. b Print the document.</p> <p>Is the print still mottled?</p>	Go to step 5.	The problem is solved.
<p>Step 5 a Replace the imaging unit or imaging kit. Warning—Potential Damage: Do not expose the imaging unit or imaging kit to direct light for more than 10 minutes. Extended exposure to light can cause print quality problems. Warning—Potential Damage: To avoid damage, do not touch the underside of the imaging unit or imaging kit. b Print the document.</p> <p>Is the print still mottled?</p>	Contact customer support .	The problem is solved.

Print crooked or skewed



Action	Yes	No
<p>Step 1</p> <ul style="list-style-type: none"> a Remove the tray. b Remove the paper, and then load paper from a fresh package. Note: Paper absorbs moisture due to high humidity. Store paper in its original wrapper until you are ready to use it. c Squeeze and slide the paper guides to the correct position for the size of the paper you are loading. d Insert the tray. e Resend the print job. <p>Is the print still crooked or skewed?</p>	Go to step 2.	The problem is solved.
<p>Step 2</p> <ul style="list-style-type: none"> a Check if you are printing on a supported paper. b Resend the print job. <p>Is the print still crooked or skewed?</p>	Contact customer support .	The problem is solved.

Repeating defects



Note: Before solving the problem, print the *Maintenance Defect Ruler* from the Troubleshooting section of the Settings menu.

Action	Yes	No
<p>Step 1</p> <ul style="list-style-type: none"> a Print the quality sample pages. From the home screen, touch Settings > Troubleshooting > Basic Print Quality Samples. b Determine how many colors have defects. <p>Is only one color affected?</p>	Go to step 2.	Go to step 3.

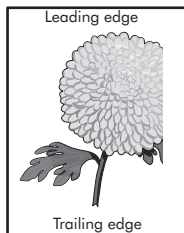
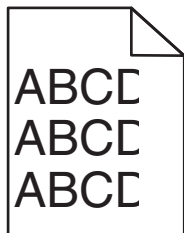
Action	Yes	No
<p>Step 2</p> <p>a Using the <i>Maintenance Defect Ruler</i>, measure the distance between the repeating defects on the affected color page.</p> <p>b Replace the supply item that matches the measurement on the affected color page.</p> <p>Imaging kit or imaging unit</p> <ul style="list-style-type: none"> • 94.20 mm (3.70 in.) • 29.80 mm (1.17 in.) • 25.10 mm (0.99 in.) <p>Developer unit</p> <ul style="list-style-type: none"> • 43.90 mm (1.73 in.) • 45.50 mm (1.79 in.) <p>c Print the quality sample pages.</p> <p>Do the defects still appear?</p>	<p>Take note of the distance, and then contact customer support or your service representative.</p>	<p>The problem is solved.</p>
<p>Step 3</p> <p>a Using the <i>Maintenance Defect Ruler</i>, measure the distance between the defects on the affected color page.</p> <p>b Replace the supply item that matches the measurement on the affected color page.</p> <p>Transfer module</p> <ul style="list-style-type: none"> • 37.70 mm (1.48 in.) • 78.50 mm (3.09 in.) • 55 mm (2.17 in.) <p>Fuser</p> <ul style="list-style-type: none"> • 95 mm (3.74 in.) • 110 mm (4.33 in.) • 34.60 mm (1.36 in.) <p>c Print the quality sample pages.</p> <p>Do the defects still appear?</p>	<p>Take note of the distance, and then contact customer support or your service representative.</p>	<p>The problem is solved.</p>

Solid color or black images



Action	Yes	No
<p>a Remove, and then reinstall the imaging unit or imaging kit.</p> <p>Warning—Potential Damage: Do not expose the imaging unit or imaging kit to direct light for more than 10 minutes. Extended exposure to light may cause print quality problems.</p> <p>Warning—Potential Damage: To avoid damage, do not touch the underside of the imaging unit or imaging kit.</p> <p>b Resend the print job.</p> <p>Is the printer still printing solid color or black images?</p>	<p>Contact customer support.</p>	<p>The problem is solved.</p>

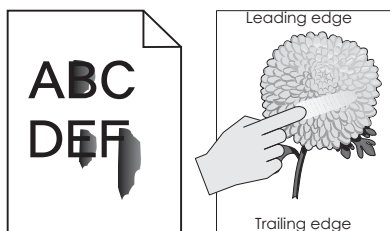
Text or images cut off



Action	Yes	No
<p>Step 1</p> <p>a Move the paper guides in the tray to the correct position for the paper loaded.</p> <p>b Resend the print job.</p> <p>Is the page or image still clipped?</p>	<p>Go to step 2.</p>	<p>The problem is solved.</p>
<p>Step 2</p> <p>a Depending on your operating system, specify the paper size from the Printing Preferences or Print dialog.</p> <p>Notes:</p> <ul style="list-style-type: none"> • Make sure that the settings match the paper loaded in the tray. • You can also change the settings on the printer control panel. <p>b Resend the print job.</p> <p>Is the page or image still clipped?</p>	<p>Go to step 3.</p>	<p>The problem is solved.</p>

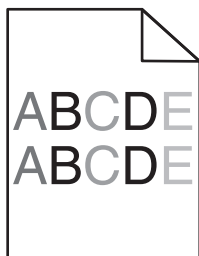
Action	Yes	No
<p>Step 3</p> <p>a Remove, and then reinstall the imaging unit or imaging kit.</p> <p>Warning—Potential Damage: Do not expose the imaging unit or imaging kit to direct light for more than 10 minutes. Extended exposure to light may cause print quality problems.</p> <p>Warning—Potential Damage: To avoid damage, do not touch the underside of the imaging unit or imaging kit.</p> <p>b Resend the print job.</p> <p>Is the page or image still clipped?</p>	<p>Contact customer support.</p>	<p>The problem is solved.</p>

Toner easily rubs off



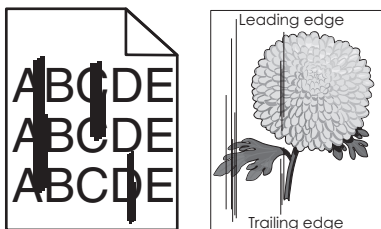
Action	Yes	No
<p>1 Depending on your operating system, specify the paper type, texture, and weight from the Printing Preferences or Print dialog.</p> <p>Notes:</p> <ul style="list-style-type: none"> • Make sure that the settings match the paper loaded in the tray. • You can also change the settings on the printer control panel. <p>2 Resend the print job.</p> <p>Does the toner still rub off?</p>	<p>Contact customer support.</p>	<p>The problem is solved.</p>

Uneven print density



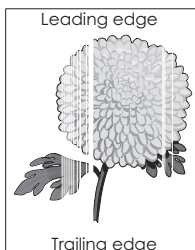
Action	Yes	No
<p>Replace the imaging unit or imaging kit, and then resend the print job.</p> <p>Warning—Potential Damage: Do not expose the imaging unit or imaging kit to direct light for more than 10 minutes. Extended exposure to light can cause print quality problems.</p> <p>Warning—Potential Damage: To avoid damage, do not touch the underside of the imaging unit or imaging kit.</p> <p>Is the print density uneven?</p>	<p>Contact customer support.</p>	<p>The problem is solved.</p>

Vertical dark lines or streaks




Action	Yes	No
<p>a Remove, and then reinstall the imaging unit or imaging kit.</p> <p>Warning—Potential Damage: Do not expose the imaging unit or imaging kit to direct light for more than 10 minutes. Extended exposure to light can cause print quality problems.</p> <p>Warning—Potential Damage: To avoid damage, do not touch the underside of the imaging unit or imaging kit.</p> <p>b Resend the print job.</p> <p>Do vertical dark lines or streaks still appear on prints?</p>	<p>Contact customer support.</p>	<p>The problem is solved.</p>

Vertical white lines



Action	Yes	No
<p>a Remove, and then reinstall the imaging unit or imaging kit.</p> <p>Warning—Potential Damage: Do not expose the imaging unit or imaging kit to direct light for more than 10 minutes. Extended exposure to light may cause print quality problems.</p> <p>Warning—Potential Damage: To avoid damage, do not touch the underside of the imaging unit or imaging kit.</p> <p>b Resend the print job.</p> <p>Do vertical white lines still appear on prints?</p>	Contact customer support .	The problem is solved.

The printer is not responding

Action	Yes	No
<p>Step 1</p> <p>Connect the power cord to the electrical outlet.</p> <p> CAUTION—POTENTIAL INJURY: To avoid the risk of fire or electrical shock, connect the power cord to an appropriately rated and properly grounded electrical outlet that is near the product and easily accessible.</p> <p>Is the printer responding?</p>	The problem is solved.	Go to step 2.
<p>Step 2</p> <p>Check if the electrical outlet is turned off by a switch or breaker.</p> <p>Is the electrical outlet turned off by a switch or breaker?</p>	Turn on the switch or reset the breaker.	Go to step 3.
<p>Step 3</p> <p>Check if the printer is on.</p> <p>Is the printer on?</p>	Go to step 4.	Turn on the printer.
<p>Step 4</p> <p>Check if the printer is in sleep or hibernate mode.</p> <p>Is the printer in sleep or hibernate mode?</p>	Press the power button to wake the printer.	Go to step 5.
<p>Step 5</p> <p>Check if the cables connecting the printer and the computer are inserted in the correct ports.</p> <p>Are the cables inserted in the correct ports?</p>	Go to step 6.	<p>Make sure to match the following:</p> <ul style="list-style-type: none"> • The USB cable with the USB port on the printer • The Ethernet cable with the Ethernet port on the printer

Action	Yes	No
<p>Step 6</p> <p>Turn off the printer, reinstall the hardware options, and then turn it back on.</p> <p>For more information, see the documentation that came with the option.</p> <p>Is the printer responding?</p>	The problem is solved	Go to step 7.
<p>Step 7</p> <p>Install the correct print driver.</p> <p>Is the printer responding?</p>	The problem is solved	Go to step 8.
<p>Step 8</p> <p>Turn off the printer, wait for about 10 seconds, and then turn it back on.</p> <p>Is the printer responding?</p>	The problem is solved.	Contact customer support .

Job prints from the wrong tray or on the wrong paper

Action	Yes	No
<p>Step 1</p> <p>a Check if you are printing on the correct paper.</p> <p>b Print the document.</p> <p>Is the document printed on the correct paper?</p>	Go to step 2.	Load the correct paper size and paper type.
<p>Step 2</p> <p>a Depending on your operating system, specify the paper size and paper type from the Printing Preferences or Print dialog.</p> <p>Notes:</p> <ul style="list-style-type: none"> • Make sure that the settings match the paper loaded in the tray. • You can also change the settings on the printer control panel. <p>b Print the document.</p> <p>Is the document printed from the correct tray or on the correct paper?</p>	The problem is solved.	Go to step 3.
<p>Step 3</p> <p>a Check if the trays are not linked.</p> <p>For more information, see “Linking trays” on page 25.</p> <p>b Print the document.</p> <p>Is the document printed from the correct tray?</p>	The problem is solved.	Contact customer support .

Color quality problems

Adjusting toner darkness

- 1 From the home screen, touch **Settings > Print > Quality**.
- 2 Adjust the toner darkness.
- 3 Apply the changes.

Modifying the colors in printed output

- 1 From the home screen, touch **Settings > Print > Quality > Advanced Imaging > Color Correction > Manual**.
- 2 From the Advanced Imaging menu, select **Color Correction Content**.
- 3 Choose the appropriate color conversion setting.

Object type	Color conversion tables
RGB Image RGB Text RGB Graphics	<ul style="list-style-type: none"> • Vivid—Produces brighter, more saturated colors and may be applied to all incoming color formats. • sRGB Display—Produces an output that approximates the colors displayed on a computer monitor. Black toner usage is optimized for printing photographs. • Display-True Black—Produces an output that approximates the colors displayed on a computer monitor. This setting uses only black toner to create all levels of neutral gray. • sRGB Vivid—Provides an increased color saturation for the sRGB Display color correction. Black toner usage is optimized for printing business graphics. • Off
CMYK Image CMYK Text CMYK Graphics	<ul style="list-style-type: none"> • US CMYK—Applies color correction to approximate the Specifications for Web Offset Publishing (SWOP) color output. • Euro CMYK—Applies color correction to approximate Euroscale color output. • Vivid CMYK—Increases the color saturation of the US CMYK color correction setting. • Off

FAQ about color printing

What is RGB color?

RGB color is a method of describing colors by indicating the amount of red, green, or blue used to produce a certain color. Red, green, and blue light can be added in various amounts to produce a large range of colors observed in nature. Computer screens, scanners, and digital cameras use this method to display colors.

What is CMYK color?

CMYK color is a method of describing colors by indicating the amount of cyan, magenta, yellow, and black used to reproduce a particular 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. Printing presses, inkjet printers, and color laser printers create colors in this manner.

How is color specified in a document to be printed?

Software programs are used to specify and modify the document color using RGB or CMYK color combinations. For more information, see the software program Help topics.

How does the printer know what color to print?

When printing a document, information describing the type and color of each object is sent to the printer and is passed through color conversion tables. Color is translated into the appropriate amounts of cyan, magenta, yellow, and black toner used to produce the color you want. 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.

What is manual color correction?

When manual color correction is enabled, the printer employs user-selected color conversion tables to process objects. Manual color correction settings are specific to the type of object being printed (text, graphics, or images). It is also specific to how the color of the object is specified in the software program (RGB or CMYK combinations). To apply a different color conversion table manually, see [“Modifying the colors in printed output” on page 103](#).

If the software program does not specify colors with RGB or CMYK combinations, then manual color correction is not useful. It is also not effective if the software program or the computer operating system controls the adjustment of colors. In most situations, setting the Color Correction to Auto generates preferred colors for the documents.

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 sets are also available from the Color Samples page of the Embedded Web Server. Selecting any sample set generates multiple-page prints consisting of hundreds of colored boxes. Each box contains a CMYK or RGB combination, 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, you can identify the box with color closest to the color being matched. 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 use 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)
- How the color of the object is specified in the software program (RGB or CMYK combinations)

If the software program does not specify colors with RGB or CMYK combinations, then the Color Samples pages are not useful. Additionally, some software programs adjust the RGB or CMYK combinations specified in the program through color management. In these situations, the printed color may not be an exact match of the Color Samples pages.

The print appears tinted

Action	No	Yes
Adjust the color balance. a From the home screen, touch Settings > Print > Quality > Advanced Imaging > Color Balance . b Adjust the setting. c Resend the print job. Does the print still appear tinted?	The problem is solved.	Contact customer support .

Contacting customer support

Before contacting customer support, make sure to have the following information:

- Printer problem
- Error message
- Printer model type and serial number

Go to <http://support.lexmark.com> to receive e-mail or chat support, or browse through the library of manuals, support documentation, drivers, and other downloads.

Technical support via telephone is also available. In the U.S. or Canada, call 1-800-539-6275. For other countries or regions, go to <http://support.lexmark.com>.

Upgrading and migrating

Hardware

Available internal options

- Memory card
 - DDR3 DIMM
 - Flash memory
 - Fonts
 - Application cards
 - Forms and Bar Code
 - PRESCRIBE
 - IPDS
- Lexmark Internal Solutions Port (ISP)
 - MarkNet™ N8360 (802.11 b/g/n/a wireless print server bundled with LEX-M06-001 Mobile Solutions Module)
 - IEEE 1284-B Parallel Card
 - RS-232C Serial Card

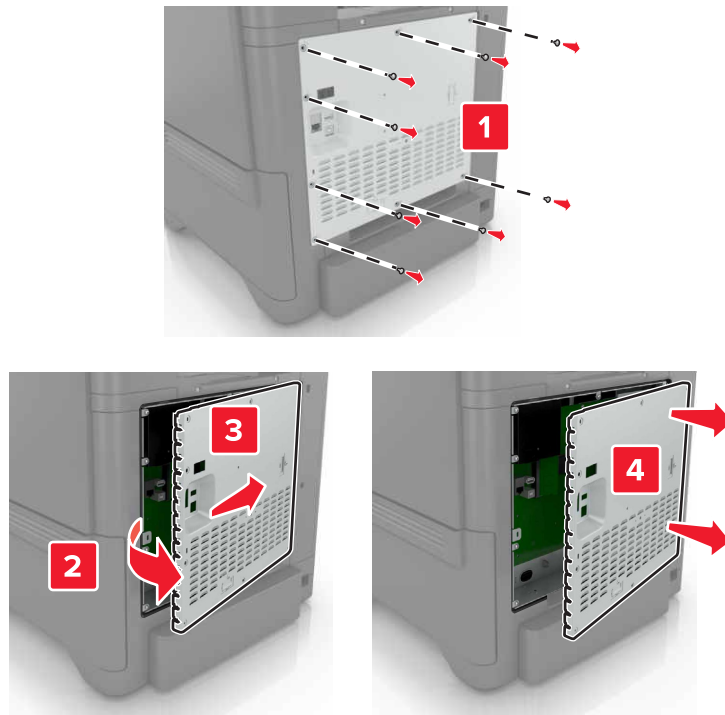
Installing a memory card



CAUTION—SHOCK HAZARD: To avoid the risk of electrical shock, if you are accessing the controller 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 electrical outlet before continuing. If you have any other devices attached to the printer, then turn them off as well, and unplug any cables going into the printer.

- 1 Turn off the printer, and then unplug the power cord from the electrical outlet.
- 2 Using a flat-head screwdriver, remove the controller board access cover.

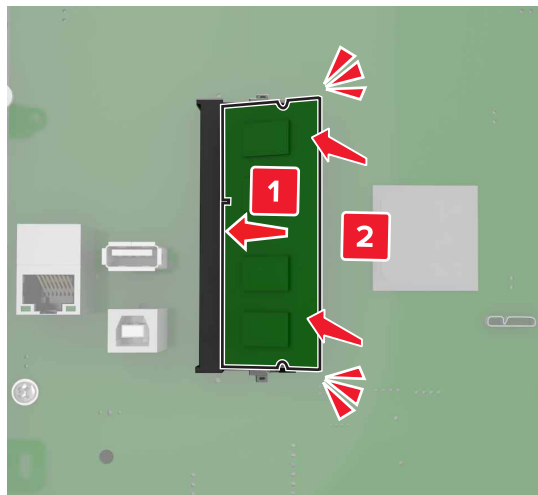
Warning—Potential Damage: Controller board electronic components are easily damaged by static electricity. Touch a metal surface on the printer before touching any controller board components or connectors.

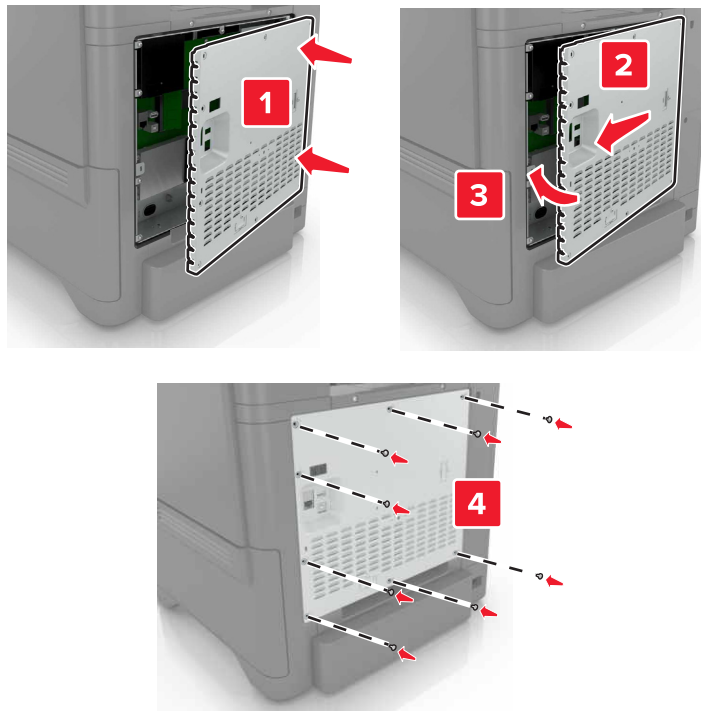


3 Unpack the memory card.

Warning—Potential Damage: Avoid touching the connection points along the edge of the card.

4 Insert the memory card until it *clicks* into place.



5 Reattach the access cover.**6** Connect the power cord to the electrical outlet, and then turn on the printer.

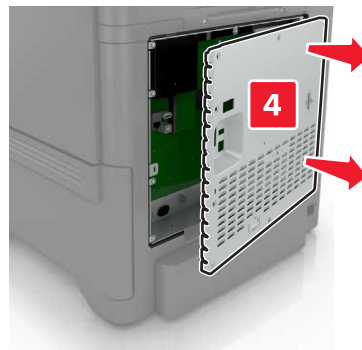
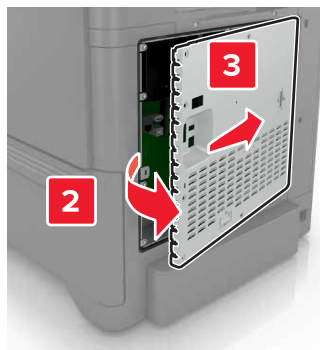
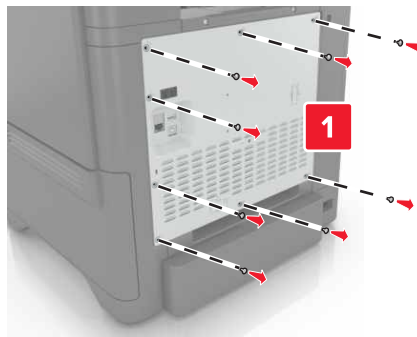
CAUTION—POTENTIAL INJURY: To avoid the risk of fire or electrical shock, connect the power cord to an appropriately rated and properly grounded electrical outlet that is near the product and easily accessible.

Installing an internal solutions port

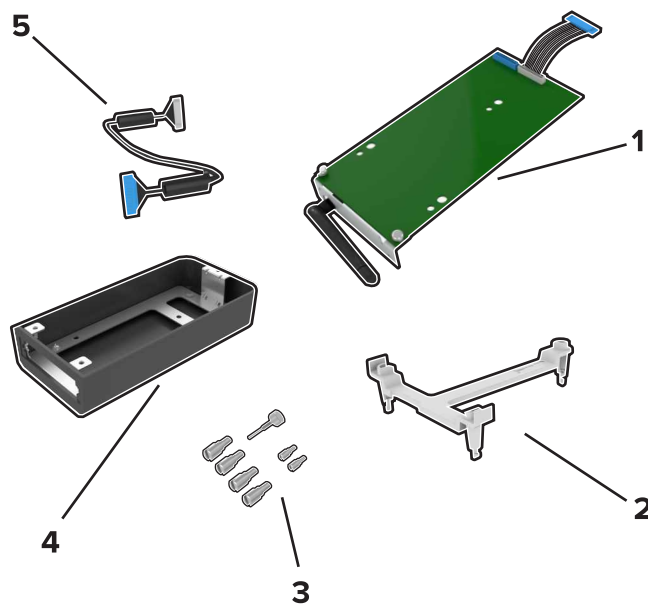
CAUTION—SHOCK HAZARD: To avoid the risk of electrical shock, if you are accessing the controller board or installing optional hardware or memory devices sometime after setting up the printer, then turn the printer off, and unplug the power cord from the electrical outlet before continuing. If you have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

- 1** Turn off the printer, and then unplug the power cord from the electrical outlet.
- 2** Using a flat-head screwdriver, remove the controller board access cover.

Warning—Potential Damage: Controller board electronic components are easily damaged by static electricity. Touch a metal surface on the printer before touching any controller board electronic components or connectors.



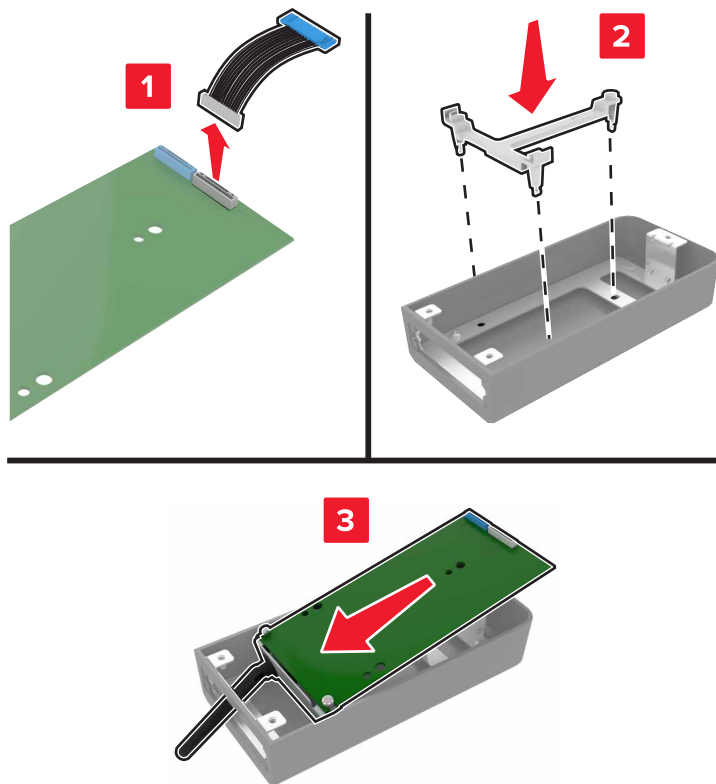
3 Unpack the internal solutions port (ISP) kit.



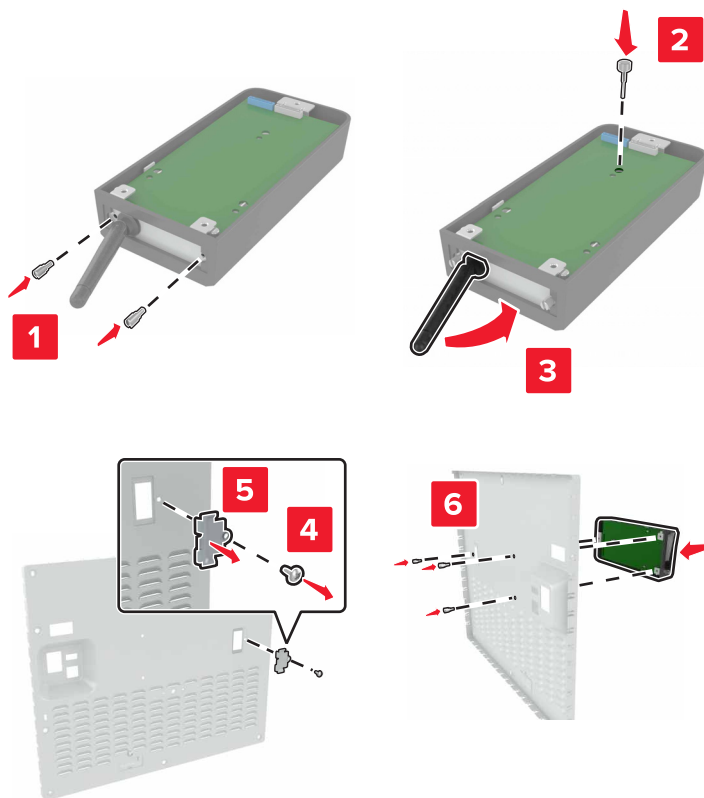
1	ISP
2	Mounting bracket
3	Thumbscrews
4	Housing

5 ISP extended cable

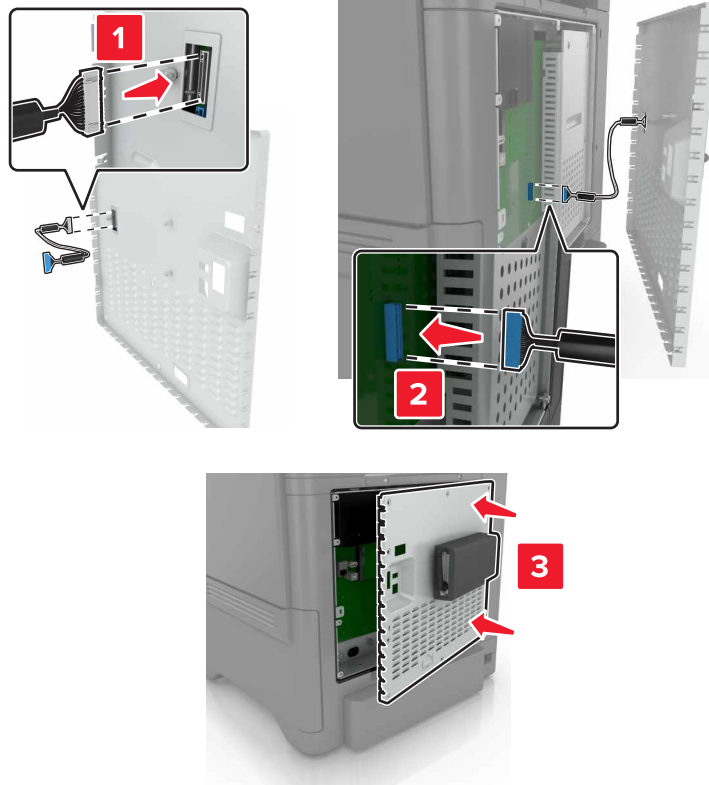
4 Install the ISP into its housing.



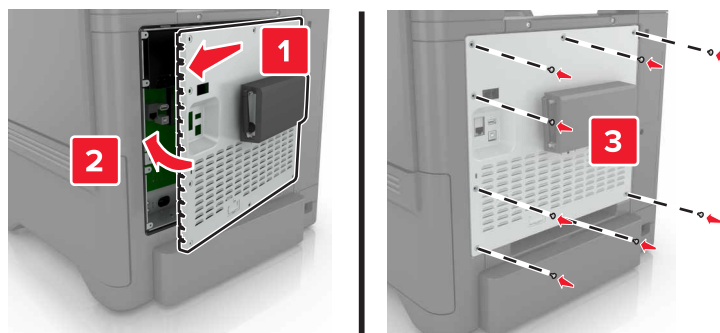
5 Attach the housing to the controller board access cover.



- 6 Connect the ISP extended cable to the ISP connector in the controller board.



- 7 Reattach the controller board access cover.



- 8 Connect the power cord to the electrical outlet, and then turn on the printer.

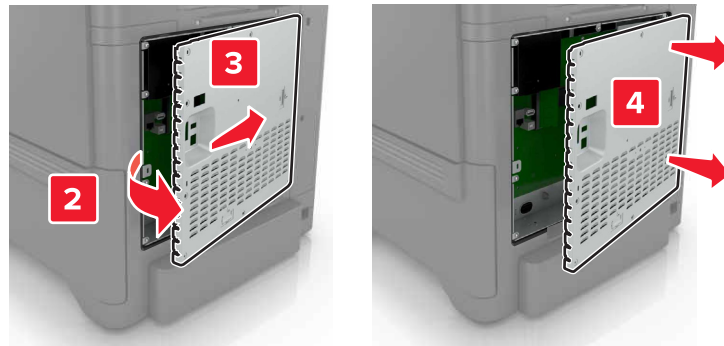
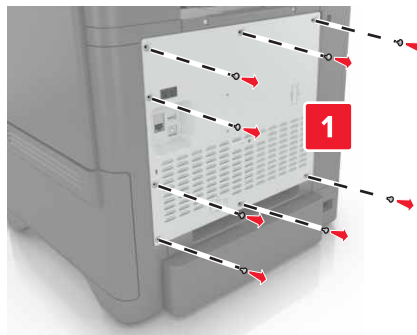
⚠ CAUTION—POTENTIAL INJURY: To avoid the risk of fire or electrical shock, connect the power cord to an appropriately rated and properly grounded electrical outlet that is near the product and easily accessible.

Installing an optional card

⚠ CAUTION—SHOCK HAZARD: To avoid the risk of electrical shock, if you are accessing the controller 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 electrical outlet before continuing. If you have any other devices attached to the printer, then turn them off as well, and unplug any cables going into the printer.

- 1 Turn off the printer, and then unplug the power cord from the electrical outlet.
- 2 Using a flat-head screwdriver, remove the controller board access cover.

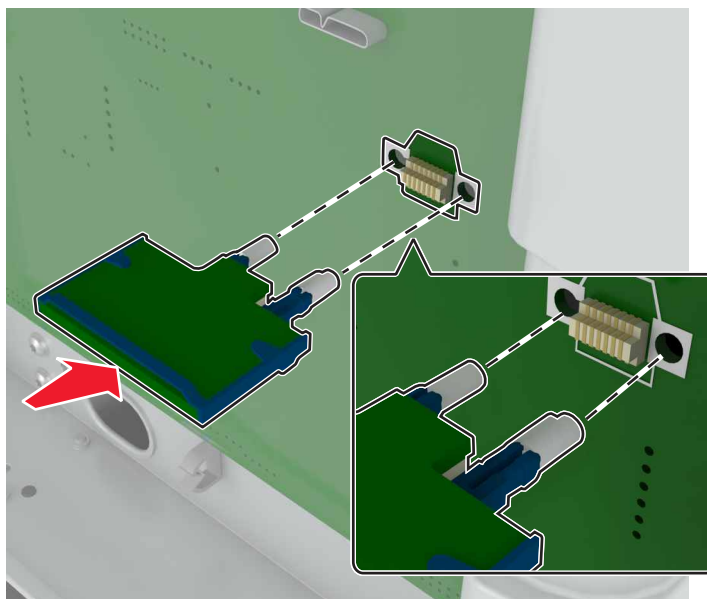
Warning—Potential Damage: Controller board electronic components are easily damaged by static electricity. Touch a metal surface on the printer before touching any components or connectors.



- 3 Unpack the optional card.

Warning—Potential Damage: Avoid touching the connection points along the edge of the card.

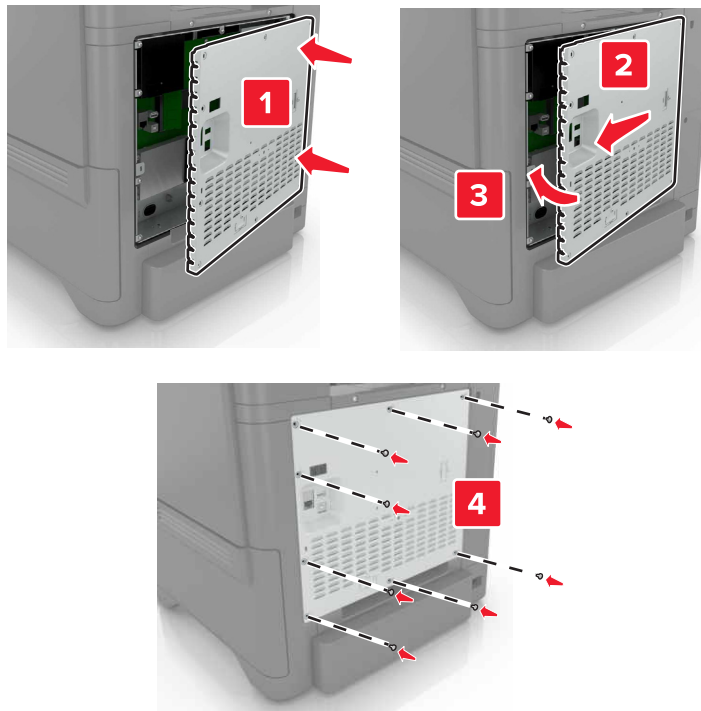
- 4 Push the card firmly into place.



Note: The entire length of the connector on the card must touch and be flush against the controller board.

Warning—Potential Damage: Improper installation of the card may cause damage to the card and the controller board.

5 Reattach the access cover.



6 Connect the power cord to the electrical outlet, and then turn on the printer.

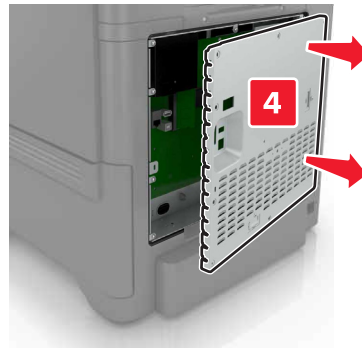
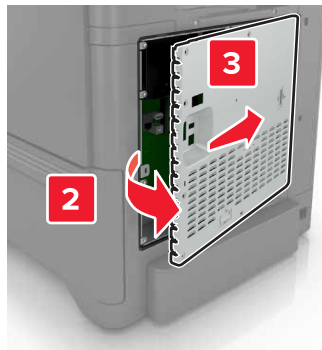
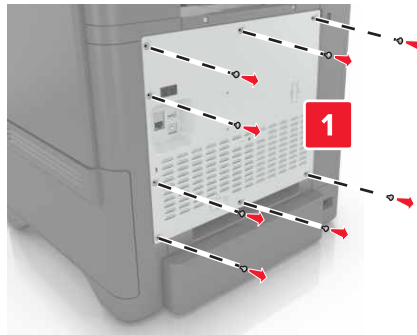
CAUTION—POTENTIAL INJURY: To avoid the risk of fire or electrical shock, connect the power cord to an appropriately rated and properly grounded electrical outlet that is near the product and easily accessible.

Installing a printer hard disk

CAUTION—SHOCK HAZARD: To avoid the risk of electrical shock, if you are accessing the controller 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 electrical outlet before continuing. If you have any other devices attached to the printer, then turn them off as well, and unplug any cables going into the printer.

- 1 Turn off the printer, and then unplug the power cord from the electrical outlet.
- 2 Using a flat-head screwdriver, remove the controller board access cover.

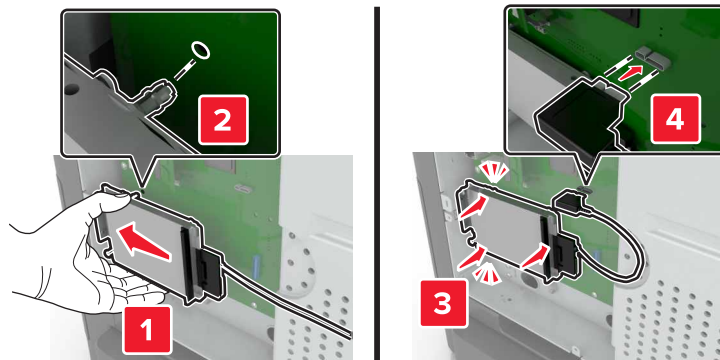
Warning—Potential Damage: Controller board electronic components are easily damaged by static electricity. Touch a metal surface on the printer before touching any controller board electronic components or connectors.



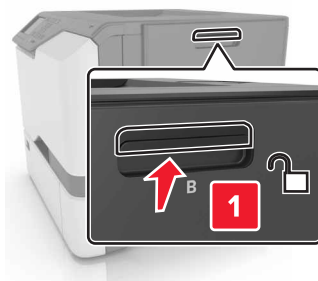
3 Unpack the hard disk.

4 Attach the hard disk to the controller board.

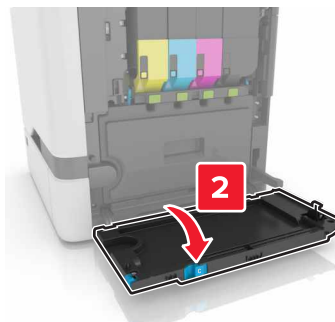
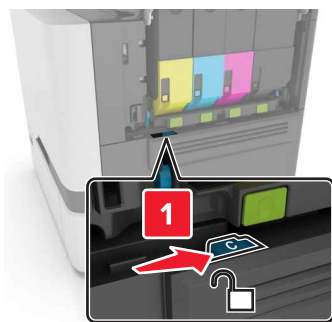
Warning—Potential Damage: Do not touch or press the center of the hard disk.



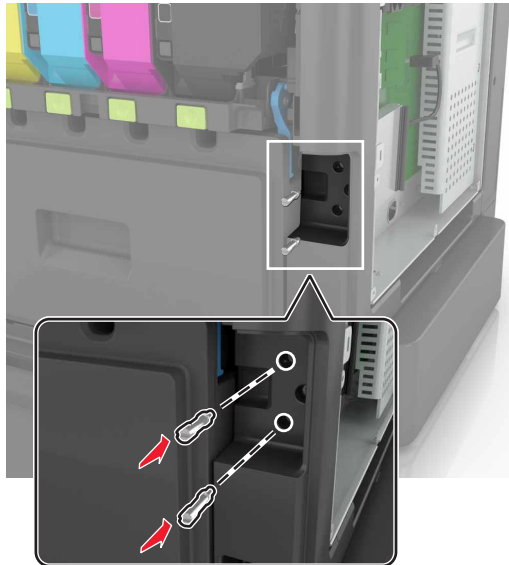
5 Open door B.



6 Open door C.

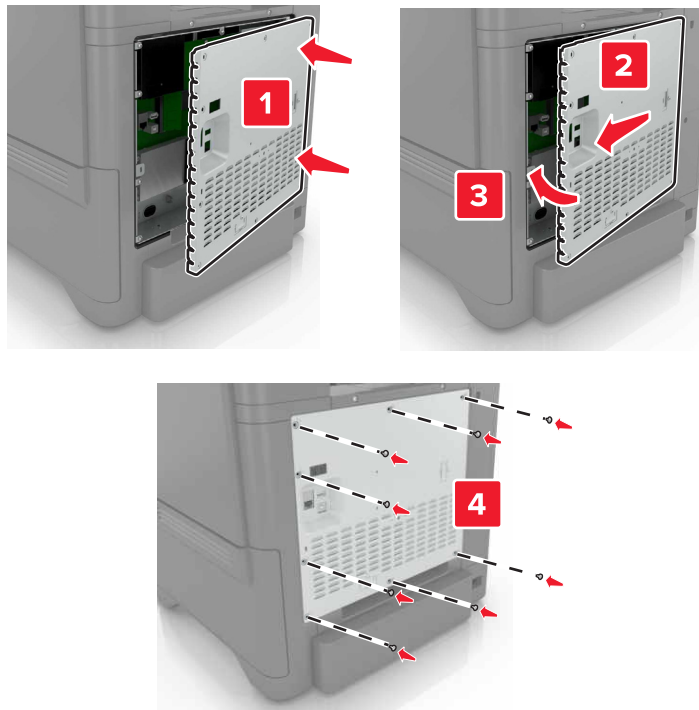


7 Secure the hard disk to the printer using the thumbscrews.



8 Close doors C and B.

9 Reattach the controller board access cover.



10 Connect the power cord to the electrical outlet, and then turn on the printer.

⚠ CAUTION—POTENTIAL INJURY: To avoid the risk of fire or electrical shock, connect the power cord to an appropriately rated and properly grounded electrical outlet that is near the product and easily accessible.

Installing optional trays

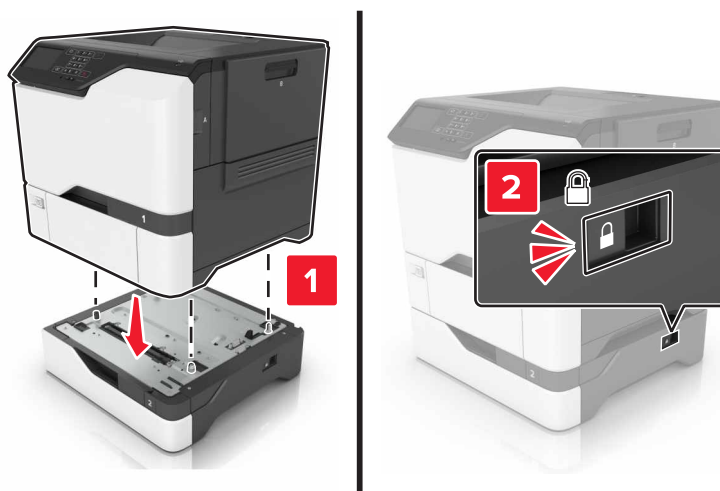
⚠ CAUTION—SHOCK HAZARD: To avoid the risk of electrical shock, if you are accessing the controller board or installing optional hardware or memory devices sometime after setting up the printer, then turn the printer off, and unplug the power cord from the electrical outlet before continuing. If you have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

- 1 Turn off the printer.
- 2 Unplug the power cord from the electrical outlet, and then from the printer.
- 3 Unpack the optional tray, and then remove all packing material.

Note: If optional trays are already installed, then unlock them from the printer before lifting the printer. Do not try to lift the printer and trays at the same time.

- 4 Align the printer with the optional tray, and then lower the printer until it *clicks* into place.

⚠ CAUTION—POTENTIAL INJURY: If the printer weight is greater than 20 kg (44 lb), then it may require two or more people to lift it safely.



- 5 Connect the power cord to the printer, and then to the electrical outlet.

⚠ CAUTION—POTENTIAL INJURY: To avoid the risk of fire or electrical shock, connect the power cord to an appropriately rated and properly grounded electrical outlet that is near the product and easily accessible.

- 6 Turn on the printer.

Add the tray in the print driver to make it available for print jobs. For more information, see [“Adding available options in the print driver” on page 120](#).

Software

Installing the printer software

- 1 Obtain a copy of the software installer package.
 - From the software CD that came with your printer.
 - Go to <http://support.lexmark.com>, and then select your printer and operating system.
- 2 Run the installer, and then follow the instructions on the computer screen.
- 3 For Macintosh users, add the printer.

Note: Obtain the printer IP address from the TCP/IP section in the Network/Ports menu.

Adding available options in the print driver

For Windows users

- 1 Open the printers folder.
- 2 Select the printer you want to update, and then do either of the following:
 - For Windows 7 or later, select **Printer properties**.
 - For earlier versions, select **Properties**.
- 3 Navigate to the Configuration tab, and then select **Update Now - Ask Printer**.
- 4 Apply the changes.

For Macintosh users

- 1 From System Preferences in the Apple menu, navigate to your printer, and then select **Options & Supplies**.
- 2 Navigate to the list of hardware options, and then add any installed options.
- 3 Apply the changes.

Firmware

Exporting or importing a configuration file

You can export the configuration settings of your printer into a text file, and then import the file to apply the settings to other printers.

- 1 Open a web browser, and then type the printer IP address in the address field.

Notes:

- View the printer IP address on the printer home screen. The IP address appears as four sets of numbers separated by periods, such as 123.123.123.123.
 - If you are using a proxy server, then temporarily disable it to load the web page correctly.
- 2 Export or import a configuration file for one or multiple applications.

For one application

- a** From the Embedded Web Server, click **Apps** > the application that you want > **Configure**.
- b** Click **Export** or **Import**.

For multiple applications

- a** From the Embedded Web Server, click **Export Configuration** or **Import Configuration**.
- b** Follow the instructions on the screen.

Updating firmware

Some applications require a minimum device firmware level to operate correctly.

For more information on updating the device firmware, contact your Lexmark representative.

- 1** From the Embedded Web Server, click **Settings** > **Device** > **Update Firmware**.
- 2** Browse to locate the required flash file.
- 3** Apply the changes.

Notices

Product information

Product name:

Lexmark CS720de, Lexmark CS720dte, Lexmark CS725de, Lexmark CS725dte, Lexmark CS725R, Lexmark CS727de, Lexmark CS728de Printers

Machine type:

5028

Model(s):

135, 1A5, 630, 6A0

Edition notice

June 2019

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For Lexmark technical support, go to <http://support.lexmark.com>.

For information on Lexmark's privacy policy governing the use of this product, go to www.lexmark.com/privacy.

For information on supplies and downloads, go to www.lexmark.com.

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Licensing notices

All licensing notices associated with this product can be viewed from the CD:\NOTICES directory of the installation software CD.

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	One-sided: 51 (CS720, CS727); 53 (CS725, CS725R, CS728) Two-sided: 53 (CS720, CS727); 55 (CS725, CS725R, CS728)
Ready	15

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.

India E-Waste notice

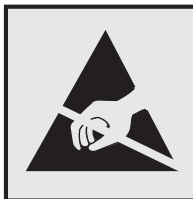


This product complies with the India E-Waste (Management and Handling) Rules, 2011, which prohibit use of lead, mercury, hexavalent chromium, polybrominated biphenyls, or polybrominated diphenyl ethers in concentrations exceeding 0.1% by weight and 0.01% by weight for cadmium, except for the exemption set in Schedule II of the Rules.

Product disposal

Do not dispose of the printer or supplies in the same manner as normal household waste. Consult your local authorities for disposal and recycling options.

Static sensitivity notice



This symbol identifies static-sensitive parts. Do not touch the areas near these symbols without first touching a metal surface in an area away from the symbol.

To prevent damage from electrostatic discharge when performing maintenance tasks such as clearing paper jams or replacing supplies, touch any exposed metal frame of the printer before accessing or touching interior areas of the printer even if the symbol is not present.

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

Operating temperature and relative humidity	10 to 32.2°C (50 to 90°F) and 15 to 80% RH
Printer / cartridge / imaging unit long-term storage ¹	15.3 to 32.2°C (60 to 90°F) and 8 to 15% RH Maximum wet bulb temperature: 22.8°C (73°F)
Printer / cartridge / imaging unit short-term shipping	-40 to 43.3°C (-40 to 110°F)
¹ Supplies shelf life is approximately 2 years. This is based on storage in a standard office environment at 22°C (72°F) and 45% humidity. ² Wet-bulb temperature is determined by the air temperature and the relative humidity.	

Laser notice

The printer is certified in the U.S. to conform to the requirements of DHHS 21 CFR, Chapter I, 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: 2014.

Class I laser products are not considered to be hazardous. The printer contains internally a Class IIIb (3b) AlGaInP laser that is nominally 15 milliwatts operating in the wavelength region of 650–670 nanometers and enclosed in a non-serviceable printhead assembly. The laser system and printer are designed so there is never any human access to laser radiation above a Class I level during normal operation, user maintenance, or prescribed service conditions.

Power consumption

Product power consumption

The following table documents the power consumption characteristics of the product.

Note: Some modes may not apply to your product.

Mode	Description	Power consumption (Watts)
Printing	The product is generating hard-copy output from electronic inputs.	One-sided: 560 (CS720, CS727); 680 (CS725, CS725R, CS728) Two-sided: 470 (CS720, CS727); 570 (CS725, CS728)
Copy	The product is generating hard-copy output from hard-copy original documents.	N/A
Scan	The product is scanning hard-copy documents.	N/A
Ready	The product is waiting for a print job.	45
Sleep Mode	The product is in a high-level energy-saving mode.	2.4
Hibernate	The product is in a low-level energy-saving mode.	0.2
Off	The product is plugged into an electrical outlet, but the power switch is turned off.	0.2

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):	15
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By using the configuration menus, the Sleep Mode Timeout can be modified between 1 minute and 120 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.

Hibernate Mode

This product is designed with an ultra-low power operating mode called *Hibernate mode*. When operating in Hibernate Mode, all other systems and devices are powered down safely.

The Hibernate mode can be entered in any of the following methods:

- Using the Hibernate Timeout
- Using the Schedule Power modes

Factory default Hibernate Timeout for this product in all countries or regions	3 days
--	--------

The amount of time the printer waits after a job is printed before it enters Hibernate mode can be modified between one hour and one month.

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 electrical outlet.

Total energy usage

It is sometimes helpful to estimate 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.

Regulatory notices for RFID products

This section contains regulatory information that applies only to the following RFID model or models:

CS725R

Modular component notice (RFID)

RFID models contain the following modular component:

Lexmark Regulatory Type/Model Number: FCC ID:IYL0528RFU; IC:2376A-0528RFU

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 license-exempt RSS standards. 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.

Industrie Canada (Canada)

Cet appareil est conforme aux normes RSS exemptes de licence d'Industrie Canada. Son fonctionnement est soumis aux deux conditions suivantes : (1) cet appareil ne doit pas causer d'interférences et (2) il doit accepter toutes les interférences, y compris les celles qui peuvent entraîner un fonctionnement indésirable.

European Community (EC) directives conformity

This product is in conformity with the protection requirements of EC Council directive 2014/53/EU on the approximation and harmonization of the laws of the Member States relating to radio equipment.

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 or may be obtained at www.lexmark.com/en_us/about/regulatory-compliance/european-union-declaration-of-conformity.html.

Compliance is indicated by the CE marking:



EU statement of radio transmitter operational frequency bands and maximum RF power

This radio product transmits in the 865–868MHz band in the EU. The maximum transmitter EIRP power output, including antenna gain, is ≤ 21 dBm.

Multiple model information

The following information applies to all CS720, CS725, CS725R, CS727, and CS728 printer models with the following machine types and model numbers:
5028-135, 5028-630

Federal Communications Commission (FCC) compliance information statement

This product has been tested and found to comply with the limits for a Class B 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 B limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult your point of purchase or service representative for additional suggestions.

The manufacturer is not responsible for 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 B 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.

Any questions regarding this compliance information statement should be directed to:

Director of Lexmark Technology & Services
Lexmark International, Inc.
740 West New Circle Road
Lexington, KY 40550
Telephone: (859) 232-2000
E-mail: regulatory@lexmark.com

Industry Canada compliance statement

This Class B 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 B est conforme aux exigences de la norme canadienne relative aux équipements pouvant causer des interférences NMB-003.

日本の VCCI 規定

製品にこのマークが表示されている場合、次の要件を満たしています。



この装置は、クラス B 情報技術装置です。この装置は、家庭環境で使用することを目的としていますが、この装置がラジオやテレビジョン受信機に近接して使用されると、受信障害を引き起こすことがあります。

取扱説明書に従って正しい取り扱いをしてください。

VCCI-B

European Community (EC) directives conformity

This product is in conformity with the protection requirements of EC Council directives 2014/30/EU, 2014/35/EU, 2009/125/EC, and 2011/65/EU 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, the ecodesign of energy-related products, and on the restrictions of use of certain hazardous substances in electrical and electronic equipment.

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 or may be obtained at www.lexmark.com/en_us/about/regulatory-compliance/european-union-declaration-of-conformity.html.

This product satisfies the Class B limits of EN 55022 and EN55032 and safety requirements of EN 60950-1 or EN 62368-1.

Model-specific information

The following information applies only to the CS720, CS725, CS725R, CS727, and CS728 printer models with the following machine types and model numbers:
5028-1A5, 5028-6A0

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.

Any questions regarding this compliance information statement should be directed to:

Director of Lexmark Technology & Services
Lexmark International, Inc.
740 West New Circle Road
Lexington, KY 40550
Telephone: (859) 232-2000
E-mail: regulatory@lexmark.com

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.

Notice to users of Class A products in Brazil

Este produto não é apropriado para uso em ambientes domésticos, pois poderá causar interferências eletromagnéticas que obrigam o usuário a tomar medidas necessárias para minimizar estas interferências.

European Community (EC) directives conformity

This product is in conformity with the protection requirements of EC Council directives 2014/30/EU, 2014/35/EU, and 2011/65/EU 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 the restrictions of use of certain hazardous substances in electrical and electronic equipment.

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 or may be obtained at www.lexmark.com/en_us/about/regulatory-compliance/european-union-declaration-of-conformity.html.

This product satisfies the Class A limits of EN 55022 and EN55032 and safety requirements of EN 60950-1 or EN 62368-1.

Radio interference notice

Warning

This is a product that complies with the emission requirements of EN55022 and EN55032 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.

STATEMENT OF LIMITED WARRANTY FOR LEXMARK LASER PRINTERS, LEXMARK LED PRINTERS, AND LEXMARK MULTIFUNCTION LASER PRINTERS

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. Fuser Units, Transfer/Transport Units, Paper Feed items, if any, and any other items for which a Maintenance Kit is available are substantially consumed when the printer displays a "Life Warning" or "Scheduled Maintenance" message for such item.

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.

As part of your warranty service and/or replacement, Lexmark may update the firmware in your printer to the latest version. Firmware updates may modify printer settings and cause counterfeit and/or unauthorized products, supplies, parts, materials (such as toners and inks), software, or interfaces to stop working. Authorized use of genuine Lexmark products will not be impacted.

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.

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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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.

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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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