

Dell S5830dn Laser Printer

User's Guide



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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.



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



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

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



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



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



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



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

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

- Turn off the printer, and then unplug the power cord from the electrical outlet.
- Disconnect all cords and cables from the printer.
- If two or more optional finishers are installed, then remove the finishers individually from the printer.

Notes:

- Make sure to remove the topmost finisher first.
- To remove the finisher, hold the finisher on both sides, and then lift the latches to unlock the finisher.
- If the printer does not have a caster base but is configured with optional trays, then remove the trays.

Note: Slide the latch on the right side of the optional tray toward the front of the tray until it *clicks* into place.

- Use the handholds located on both sides of the printer to lift it.
- Make sure your fingers are not under the printer when you set it down.
- Make sure there is adequate clearance around the printer.
- Use only the power cord provided with this product or the manufacturer's authorized replacement.

 **CAUTION—SHOCK HAZARD:** 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:** 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—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.

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

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

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

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

 **CAUTION—TIPPING HAZARD:** Floor-mounted configurations require additional furniture for stability. You must use either a printer stand or printer base if you are using a high-capacity tray or more than one option. If you purchased a printer with a similar configuration, you may need additional furniture. For more information, contact the place where you purchased the printer.

SAVE THESE INSTRUCTIONS.

Learning about the printer

Finding information about the printer

What are you looking for?	Find it here
Help to set up and use the printer: • Accessing printer reports • Accessing the Embedded Web Server • Installing optional accessories • Dell instructional videos • Finding the service tag • Routine printer maintenance • Troubleshooting	 Scan the Quick Response (QR) code or go to Dell.com/QRL/Printer/S5830dn to view product documents.
Initial setup instructions: • Connecting the printer • Installing the printer software	Setup documentation—The setup documentation came with the printer.
Additional setup and instructions for using the printer: • 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>User's Guide</i> and <i>Quick Reference Guide</i>—The guides are available on the <i>Software CD</i>. For more information, go to www.dell.com/support/manuals.
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: • Help is automatically installed with the printer software. • The printer software is located in the printer program folder or on the desktop, depending on your operating system.

What are you looking for?	Find it here
The latest supplemental information, updates, and technical support: • Documentation • Driver downloads • Product upgrades • Service call and repair information • Order status • Live chat support • E-mail support • Voice support	www.dell.com/support/printers Notes: • Support contact information for your country or region is found on the support Web site. • Documentation came with the printer and is available on the <i>Software CD</i>. Have the following information ready when you contact technical support: • Service tag • Express service code Note: The service tag and express service code appear on labels on the printer.
• Software and Drivers—Certified drivers for your printer and installers for Dell printer software • Readme files—Last-minute technical changes, or advanced technical reference materials for experienced users or technicians	<i>Software CD</i>
• Supplies and accessories for your printer • Replacement cartridges	www.dell.com/printers You can purchase printer supplies online, by telephone, or in select retail stores.
• Safety information for preparing to operate your printer • Regulatory information • Warranty information	<i>Product Information Guide</i>  Notes: • The <i>Product Information Guide</i> may not be available in your country or region. • Documentation came with the printer and is available on the <i>Software CD</i>.

Selecting a location for the printer

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

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

- Set up the printer near a properly grounded and easily accessible electrical outlet.
- Make sure airflow in the room meets the latest revision of the ASHRAE 62 standard or the CEN Technical Committee 156 standard.
- Provide a flat, sturdy, and stable surface.
- Keep the printer:
 - 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	15.6 to 32.2°C (60 to 90°F)
Storage temperature	-40 to 43.3°C (-40 to 110°F)

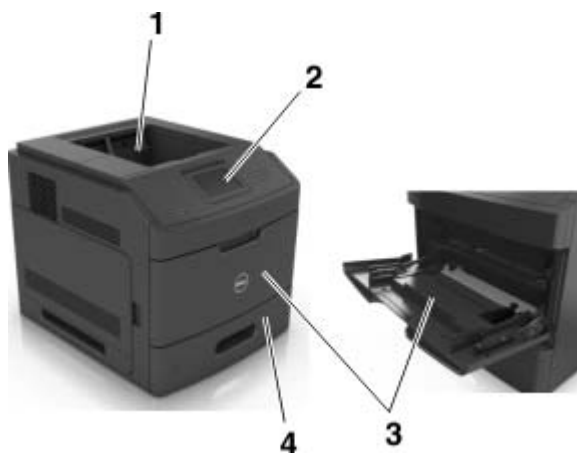
- Allow the following recommended amount of space around the printer for proper ventilation:



1	Right side	152 mm (6 in.)
2	Front	508 mm (20 in.)
3	Left side	152 mm (6 in.)
4	Rear	152 mm (6 in.)
5	Top	115 mm (4.5 in.)

Printer configurations

Basic model



1	Standard bin
2	Printer control panel
3	Multipurpose feeder
4	Standard 550-sheet tray (Tray 1)

Fully configured model



CAUTION—TIPPING HAZARD: Floor-mounted configurations require additional furniture for stability. You must use either a printer stand or printer base if you are using multiple input options. If you purchased a printer with a similar configuration, then you may need additional furniture. For more information, contact the place where you purchased the printer.

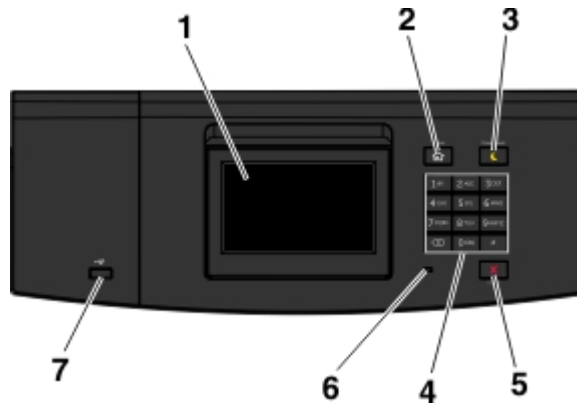


	Hardware option
1	Staple finisher
2	4-bin mailbox
3	Optional 550-sheet tray
4	2100-sheet tray
5	Caster base
6	High-capacity output expander

Note: An optional spacer can also be installed on the printer. For more information, go to www.dell.com.

Understanding the printer control panel

Using the printer control panel



	Use the	To
1	Display	- View the printer status. - Set up and operate the printer.
2	Home button	Go to the home screen.
3	Sleep button	Enable Sleep mode or Hibernate mode. Do the following to wake the printer from Sleep Mode: - Press any hard button. - Pull out Tray 1 or load paper in the multipurpose feeder. - Open a door or cover. - Send a print job from the computer. - Perform a power-on reset with the main power switch. - Attach a device to the USB port on the printer.
4	Keypad	Enter numbers, letters, or symbols.
5	Stop or Cancel button	Stop all printer activity.
6	Indicator light	Check the status of the printer.
7	USB port	Connect a flash drive to the printer. Note: Only the front USB port supports flash drives.

Understanding the status of the sleep button and indicator light

Indicator light	Printer status
Off	The printer is off or in Hibernate mode.
Blinking green	The printer is warming up, processing data, or printing.

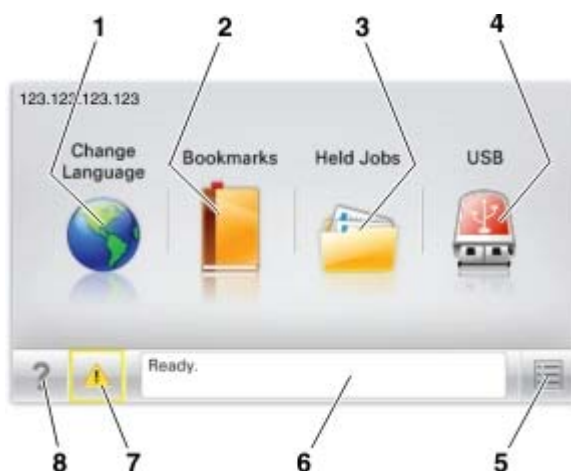
Indicator light	Printer status
Solid green	The printer is on, but idle.
Blinking red	The printer requires user intervention.

Sleep button light	Printer status
Off	The printer is off, idle or in Ready state.
Solid yellow	The printer is in Sleep mode.
Blinking yellow	The printer is entering or waking from Hibernate mode.
Blinking yellow for 0.1 second, then goes completely off for 1.9 seconds in a slow, pulsing pattern	The printer is in Hibernate mode.

Understanding the home screen

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

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



Touch	To	
1	Change Language	Change the primary language of the printer.
2	Bookmarks	Create, organize, and save a set of bookmarks (URLs) into a tree view of folders and file links. Note: The tree view does not include bookmarks created within Forms and Favorites, and the ones in the tree are not usable in Forms and Favorites.
3	Held Jobs	Display all current held jobs.
4	USB	View, select, or print photos and documents from a flash drive. Note: This icon appears only when you return to the home screen while a memory card or flash drive is connected to the printer.

Touch		To
5	Menus	Access printer menus. Note: These menus are available only when the printer is in Ready state.
6	Status message bar	- Show the current printer status such as Ready or Busy. - Show the status of printer supplies. - Show intervention messages and the instructions on how to clear them.
7	Status/Supplies	- 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.
8	Tips	View a context-sensitive help information.

These may also appear on the home screen:

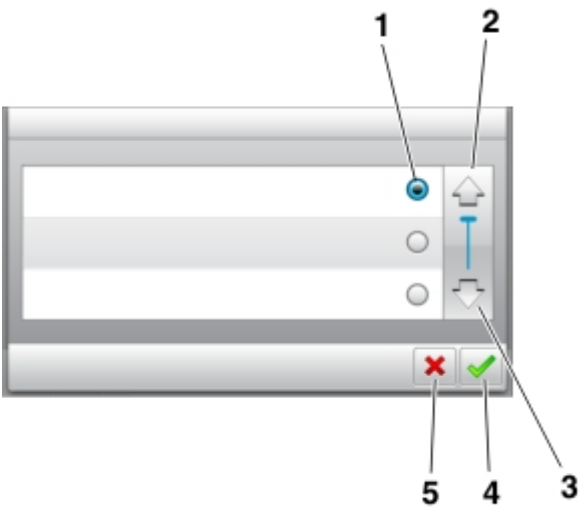
Touch	To
Search Held Jobs	Search current held jobs.
Jobs by user	Access print jobs saved by user.
Profiles and Apps	Access profiles and applications.

Features

Feature	Description
Attendance message alert 	If an attendance message affects a function, then this icon appears and the red indicator light blinks.
Warning 	If an error condition occurs, then this icon appears.
Printer IP address Example: 123 . 123 . 123 . 123	The IP address of your printer is located at the top left corner of the home screen. You can use the IP address when accessing the Embedded Web Server to view and remotely configure printer settings.

Using the touch-screen buttons

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



	Touch the	To
1	Radio button	Select or clear an item.
2	Up arrow	Scroll up.
3	Down arrow	Scroll down.
4	Accept button	Save a setting.
5	Cancel button	• Cancel an action or a selection. • Return to the previous screen.

Touch	To
	Return to the home screen.
	Open a context-sensitive Help dialog on the printer control panel.
	Scroll to the left.
	Scroll to the right.

Setting up and using the home screen applications

Finding the IP address of the computer

For Windows users

- 1 In the Run dialog box, type **cmd** to open the command prompt.
- 2 Type **ipconfig**, and then look for the IP address.

For Macintosh users

- 1 From System Preferences in the Apple menu, select **Network**.
- 2 Select your connection type, and then click **Advanced** > **TCP/IP**.
- 3 Look for the IP address.

Accessing the Embedded Web Server

The Embedded Web Server is the printer Web page that lets you view and remotely configure printer settings even when you are not physically near the printer.

- 1 Obtain the printer IP address:
 - From the printer control panel 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

Note: An IP address appears as four sets of numbers separated by periods, such as **123 . 123 . 123 . 123**.

- 2 Open a Web browser, and then type the printer IP address in the address field.
- 3 Press **Enter**.

Note: If you are using a proxy server, then temporarily disable it to load the Web page correctly.

Finding information about the home screen applications

Your printer comes with preinstalled home screen applications. Before you can use these applications, you must first activate and set up these applications using the Embedded Web Server. For more information on accessing the Embedded Web Server, see [“Accessing the Embedded Web Server” on page 17](#).

For detailed information on configuring and using the home screen applications, visit the Dell support Web site at www.dell.com/support/printers.

Customizing the home screen

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

Note: 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.

- 2 Do one or more of the following:

- Show or hide the icons of basic printer functions.
 - a Click **Settings** > **General Settings** > **Home screen customization**.
 - b Select the check boxes to specify which icons appear on the home screen.

Note: If you clear a check box beside an icon, then the icon does not appear on the home screen.

- c Click **Submit**.
- Customize the icon for an application. For more information, see [“Finding information about the home screen applications” on page 17](#) or see the documentation that came with the application.

Using Background and Idle Screen

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

- 1 From the home screen, navigate to:
Change Background > select background to use

- 2 Touch .

Setting up Forms and Favorites

Note: A later version of this *User's Guide* may contain a direct link to the *Administrator's Guide* of this application. To check for updates of this *User's Guide*, go to www.dell.com/support/manuals.

Use	To
	Streamline work processes by letting you quickly find and print frequently used online forms directly from the printer home screen. Note: The printer must have permission to access the network folder, FTP site, or Web site where the bookmark is stored. From the computer where the bookmark is stored, use sharing, security, and firewall settings to allow the printer at least a <i>read</i> access. For help, see the documentation that came with your operating system.

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

Note: 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.

2 Click **Settings > Apps > Apps Management > Forms and Favorites**.

3 Click **Add**, and then customize the settings.

Notes:

- See the mouse-over help beside each field for a description of the setting.
- To make sure the location settings of the bookmark are correct, type the correct IP address of the host computer where the bookmark is located. For more information on obtaining the IP address of the host computer, see [“Finding the IP address of the computer” on page 17](#).
- Make sure the printer has access rights to the folder where the bookmark is located.

4 Click **Apply**.

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

Understanding Eco-Settings

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

Setting up Remote Operator Panel

This application enables you to interact with the printer control panel even when you are not physically near the network printer. From your computer, you can view the printer status, release held print jobs, create bookmarks, and do other print-related tasks.

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

Note: 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.

2 Click **Settings > Remote Operator Panel Settings**.

3 Select the **Enable** check box, and then customize the settings.

4 Click **Submit**.

To use the application, click **Remote Operator Panel > Launch VNC Applet**.

Exporting and importing a configuration

You can export configuration settings 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.

Note: View the 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.

- 2 Export or import a configuration file for one or multiple applications.

For one application

- a Navigate to:

Settings > Apps > Apps Management > select an application > Configure

- b Export or import the configuration file.

Notes:

- If a **JVM Out of Memory** error occurs, then repeat the export process until the configuration file is saved.
- If a timeout occurs and a blank screen appears, then refresh the Web browser, and then click **Apply**.

For multiple applications

- a Click **Settings > Import/Export**.

- b Export or import a configuration file.

Note: When importing a configuration file, click **Submit** to complete the process.

Additional printer setup

Installing internal options

CAUTION—SHOCK HAZARD: 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 then 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.

Available internal options

Note: Some options are available only in select printer models. For more information, contact the place where you purchased your printer.

- Memory card
 - DDR3 DIMM
 - Flash memory
 - Fonts
 - Firmware cards
 - Forms and Bar Code
 - PRESCRIBE
 - IPDS
- Printer hard disk
- Internal Solutions Ports (ISP)

Accessing the controller board

Note: This task requires a flat-head screwdriver.

CAUTION—SHOCK HAZARD: 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 Remove the controller board access cover.



- 2** Using a screwdriver, loosen the screws on the controller board shield.

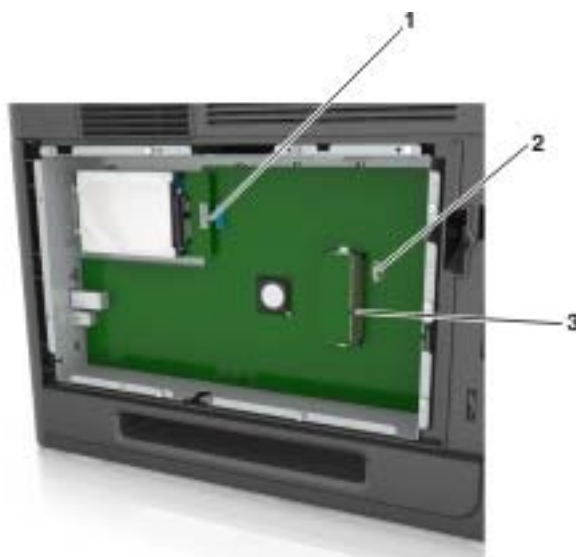


- 3** Remove the shield.



- 4** Use the following illustration to locate the appropriate connector:

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



1	Internal Solutions Port or printer hard disk connector
2	Option card connector
3	Memory card connector

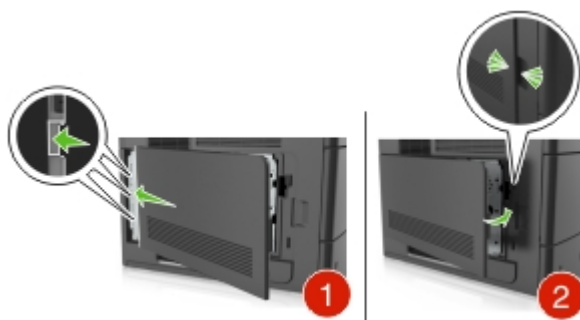
5 Align the screws with the holes on the shield, and then reattach the shield.



6 Tighten the screws on the shield.



7 Reattach the access cover.



Installing a memory card

CAUTION—SHOCK HAZARD: 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.

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

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

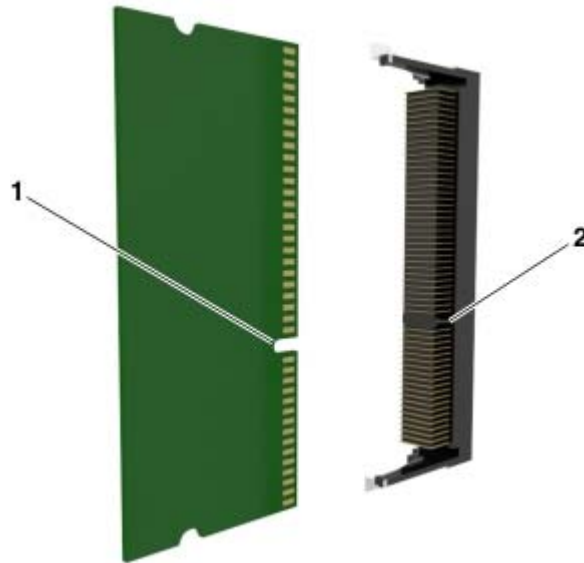
- 1 Access the controller board.

For more information, see [“Accessing the controller board” on page 21](#).

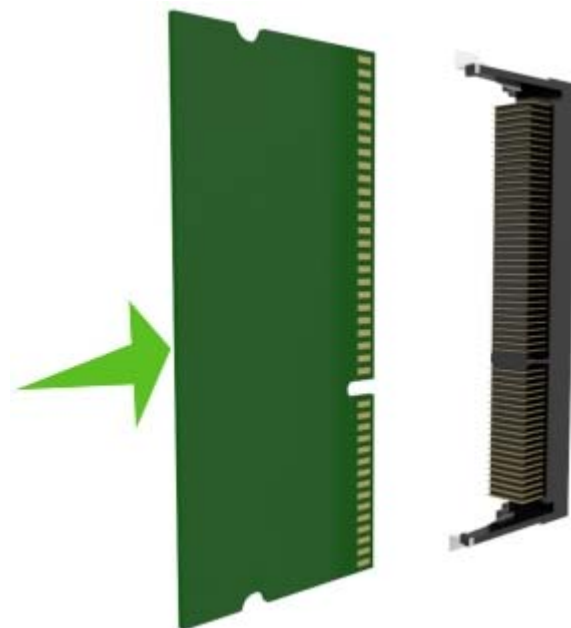
- 2 Unpack the memory card.

Warning—Potential Damage: Do not touch the connection points along the edge of the card. Doing so may cause damage.

- 3 Align the notch (1) on the memory card with the ridge (2) on the connector.



- 4 Push the memory card straight into the connector, and then push the card toward the controller board wall until it *clicks* into place.



- 5 Reattach the controller board shield, and then the controller board access cover.

Installing an Internal Solutions Port

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

Note: This task requires a flat-head screwdriver.

CAUTION—SHOCK HAZARD: 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.

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

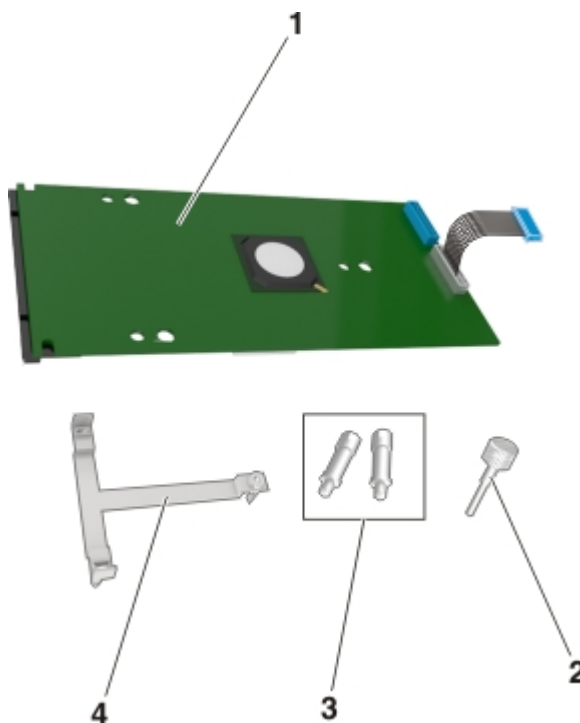
1 Access the controller board.

For more information, see [“Accessing the controller board” on page 21](#).

2 If an optional printer hard disk is installed, then remove the printer hard disk first.

For more information, see [“Removing a printer hard disk” on page 35](#).

3 Unpack the ISP kit.



1	ISP solution
2	Screw for attaching the plastic bracket to the ISP
3	Screws for attaching the ISP mounting bracket to the controller board shield
4	Plastic bracket

4 Remove the metal cover from the ISP opening.

- a** Loosen the screw.



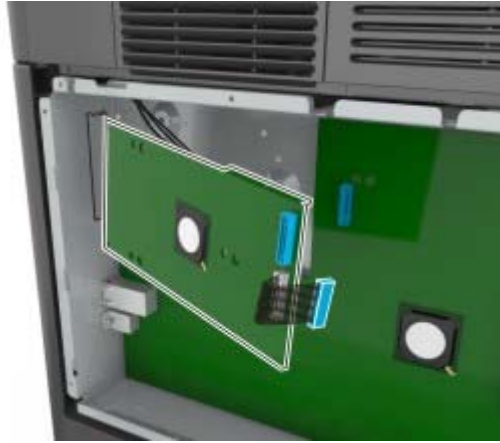
- b** Lift the metal cover, and then pull it out completely.



5 Align the posts of the plastic bracket with the holes on the controller board cage, and then press the plastic bracket on the controller board cage until it *clicks* into place. Make sure the cables are neatly tucked under the plastic bracket.

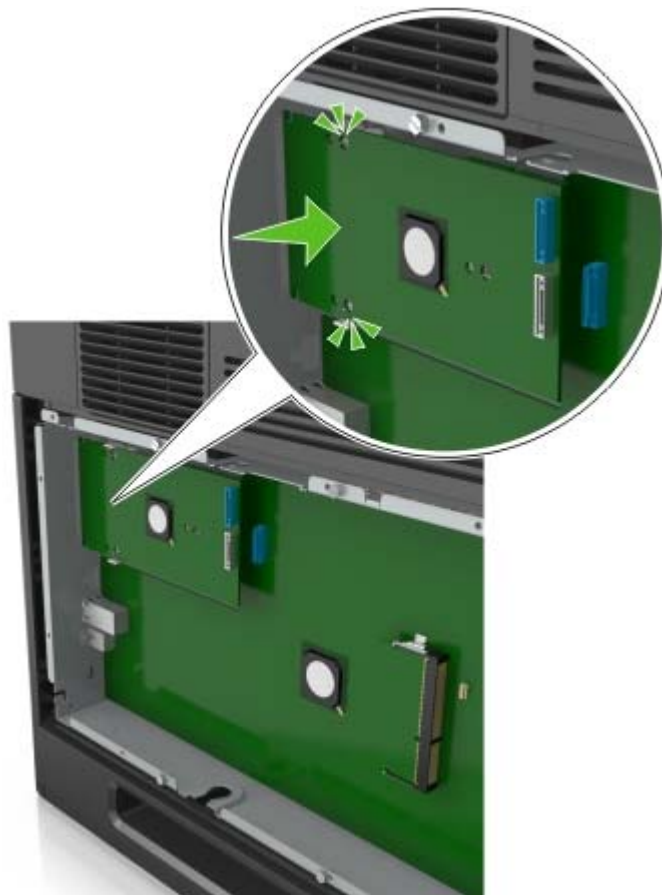


- 6** Install the ISP on the plastic bracket.



Note: Hold the ISP at an angle over the plastic bracket so that any overhanging connectors will pass through the ISP opening in the controller board cage.

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



- 8 Use the provided thumbscrew for the ISP to attach the plastic bracket to the ISP.



Note: Turn the screw clockwise, enough to hold the ISP in place, but do not tighten it yet.

- 9 Attach the two provided screws to secure the ISP mounting bracket to the controller board shield.

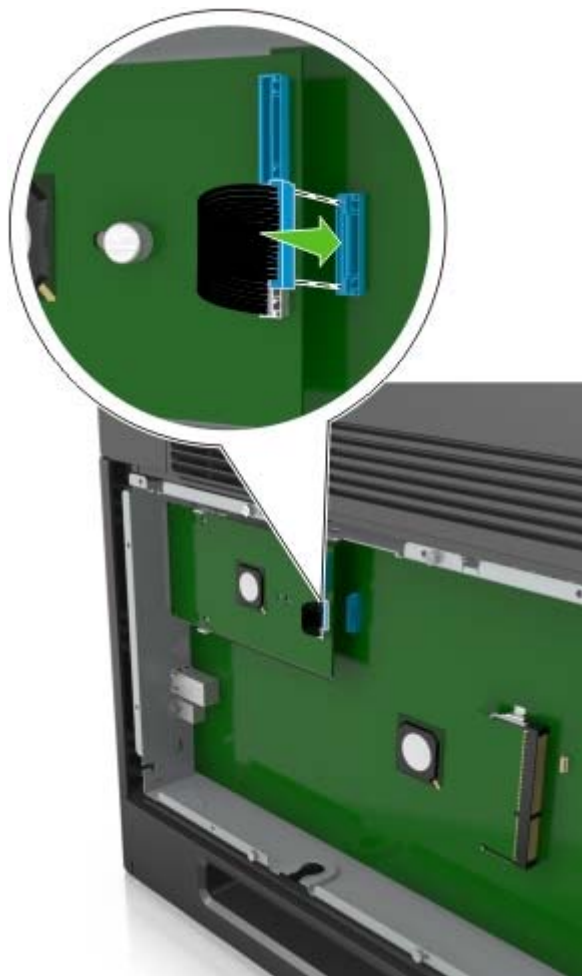


- 10 Tighten the thumbscrew that is attached to the ISP.

Warning—Potential Damage: Do not screw it on too tightly.

- 11 Connect the ISP solution interface cable into the receptacle of the controller board.

Note: The plugs and receptacles are color-coded.



Installing an optional card

CAUTION—SHOCK HAZARD: 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 other devices attached to the printer, then turn them off as well, and unplug any cables going into the printer.

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.

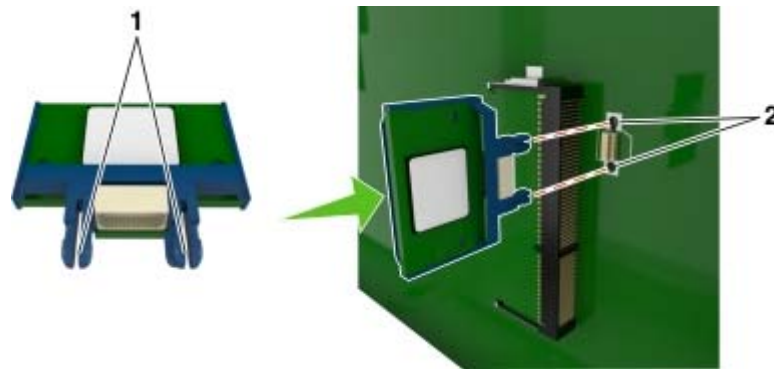
- 1 Access the controller board.

For more information, see [“Accessing the controller board” on page 21](#).

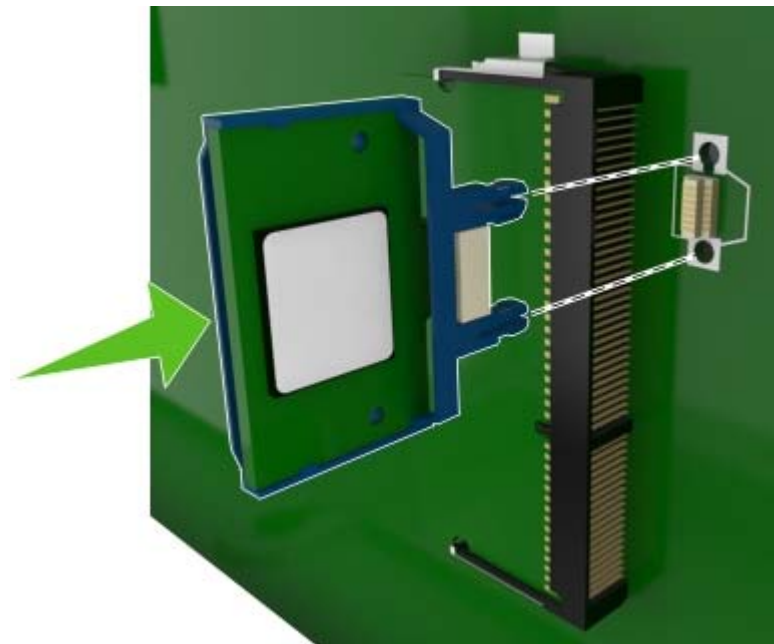
- 2 Unpack the optional card.

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

- 3** Holding the card by its sides, align the plastic pins (1) on the card with the holes (2) on the controller board.



- 4** Push the card firmly into place as shown in the illustration.



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

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

- 5** Close the controller board access door.

Note: When the printer software and any hardware options are installed, it may be necessary to manually add the options in the printer driver to make them available for print jobs. For more information, see [“Adding available options in the print driver” on page 41.](#)

Installing a printer hard disk

Note: This task requires a flat-head screwdriver.

CAUTION—SHOCK HAZARD: 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.

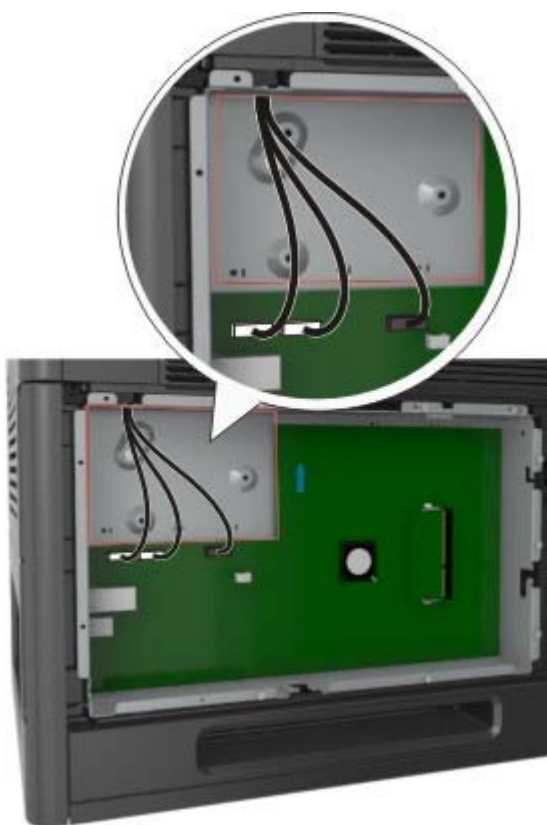
Warning—Potential Damage: Controller board electronic components are easily damaged by static electricity. Touch something metal on the printer first before touching any controller board electronic components or connectors.

- 1 Access the controller board.

For more information, see [“Accessing the controller board” on page 21](#).

- 2 Unpack the printer hard disk.

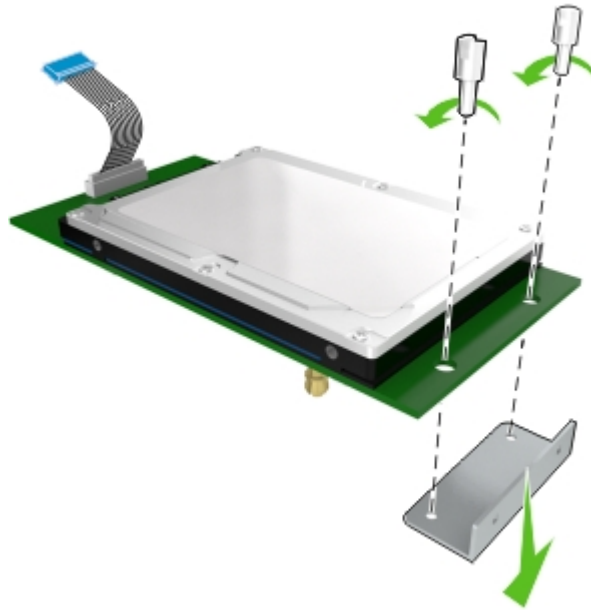
- 3 Locate the appropriate connector on the controller board cage.



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

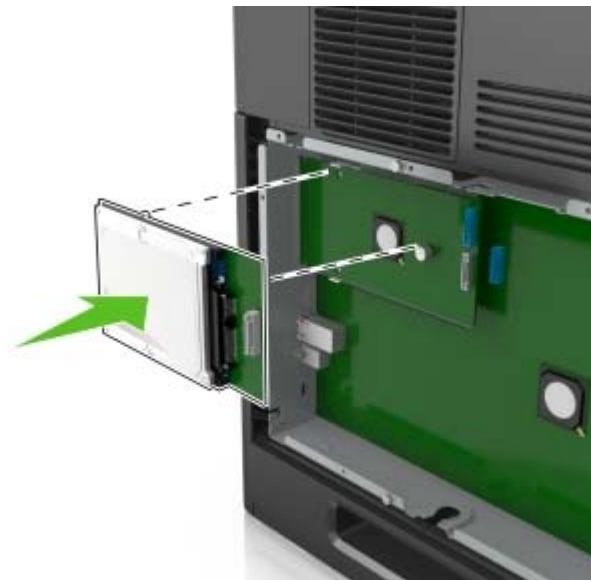
To install a printer hard disk onto the ISP:

- a** Remove the screws attached to the printer hard disk mounting bracket, and then remove the bracket.



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

Installation warning: Hold only the edges of the printed circuit board assembly. Do not touch or press on the center of the printer hard disk. Doing so may cause damage.



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

Note: The plugs and receptacles are color-coded.



- 4** Align the standoffs of the printer hard disk to the holes in the controller board cage, and then press the printer hard disk down until the standoffs are in place.

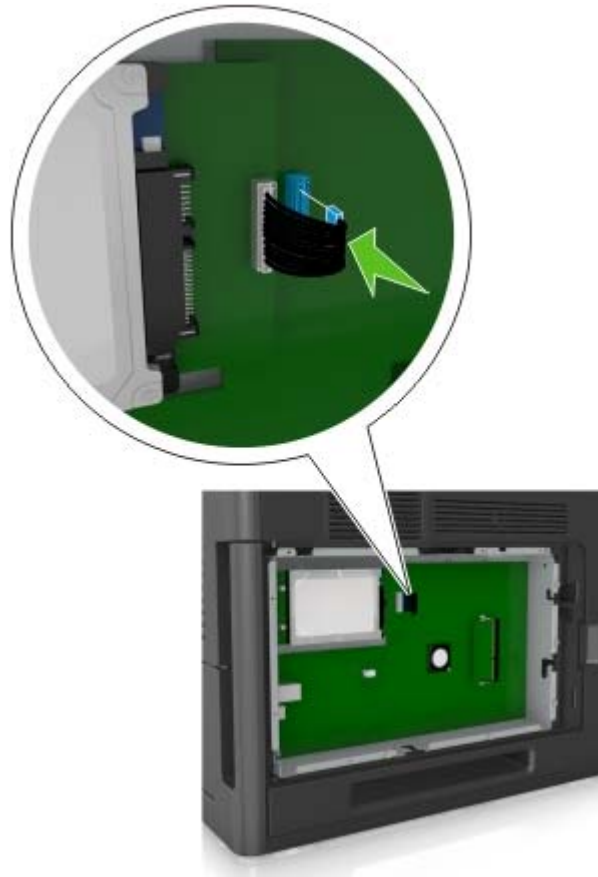
Installation warning: Hold only the edges of the printed circuit board assembly. Do not touch or press on the center of the printer hard disk. Doing so may cause damage.



Note: Make sure the cables are neatly tucked under the printer hard disk.

- 5** Insert the plug of the printer hard disk interface cable into the receptacle of the controller board.

Note: The plugs and receptacles are color-coded.



Removing a printer hard disk

Note: This task requires a flat-head screwdriver.

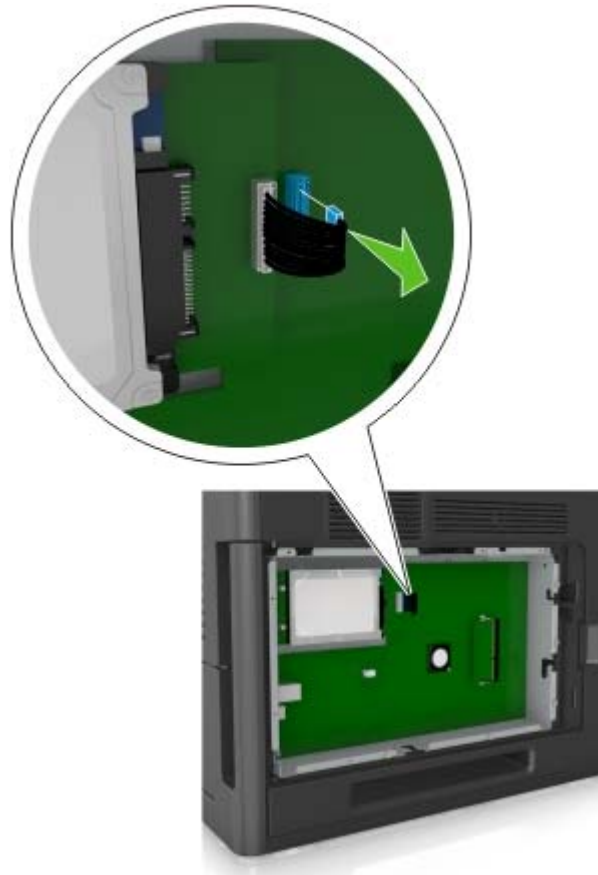
⚠ CAUTION—SHOCK HAZARD: If you are accessing the controller board or installing optional hardware or memory devices sometime after setting up the printer, then turn the printer off, and unplug the power cord from the electrical outlet before continuing. If you have any other devices attached to the printer,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

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.

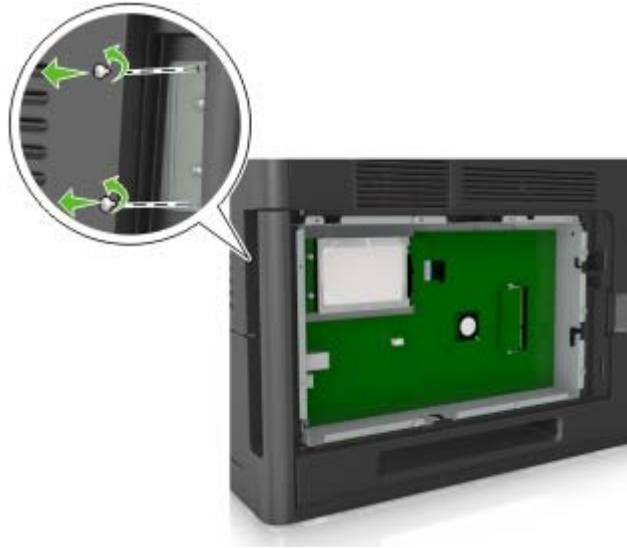
1 Access the controller board.

For more information, see [“Accessing the controller board” on page 21](#).

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



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



- 4** Remove the printer hard disk.



- 5** Set aside the printer hard disk.

Installing hardware options

Order of installation



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

 **CAUTION—SHOCK HAZARD:** 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—TIPPING HAZARD:** Floor-mounted configurations require additional furniture for stability. You must use either a printer stand or printer base if you are using multiple input options. If you purchased a printer with a similar configuration, then you may need additional furniture. For more information, contact the place where you purchased the printer.

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

- Caster base
- 2100-sheet tray or spacer
- Optional 550-sheet tray
- Printer

For more information on installing a caster base, optional 550-sheet tray, spacer, or 2100-sheet tray, see the setup sheet that came with the option.

Installing optional trays

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

 **CAUTION—SHOCK HAZARD:** If you are accessing the 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—TIPPING HAZARD:** Floor-mounted configurations require additional furniture for stability. You must use either a printer stand or printer base if you are using a high-capacity tray or more than one option. If you purchased a printer with a similar configuration, you may need additional furniture. For more information, contact the place where you purchased the printer.

- 1 Turn off the printer.
- 2 Unpack the optional tray, and then remove all packing material.

- 3** Pull out the tray, and then remove any packing material from inside the tray.



- 4** Insert the tray.
5 Place the tray near the printer.
6 Align the printer with the tray, and then slowly lower the printer into place.



- 7** Turn the printer back on.

Note: When the printer software and any optional trays are installed, you may need to manually add the options in the printer driver to make them available for print jobs. For more information, see [“Adding available options in the print driver” on page 41](#).

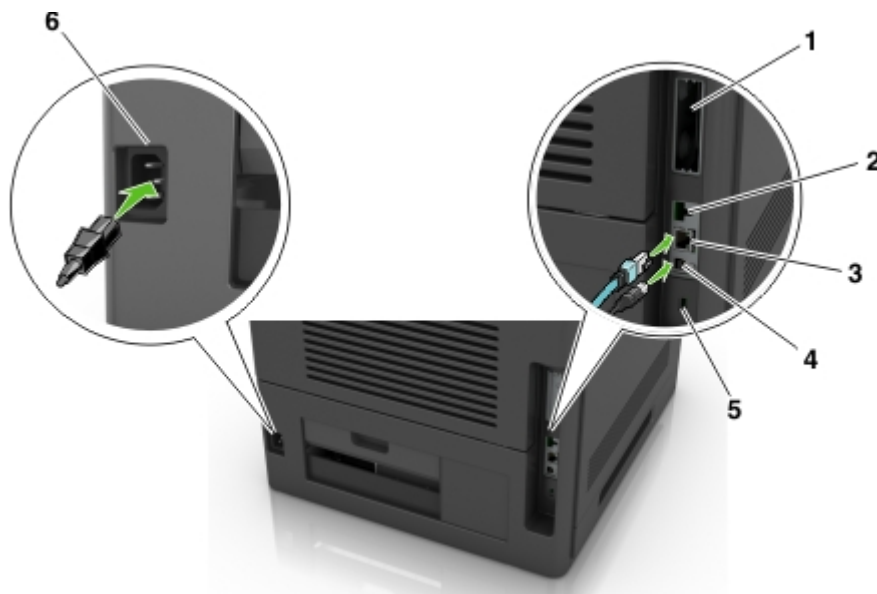
Attaching cables

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

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

Make sure to match the following:

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



	Use the	To
1	Parallel port	Connect the printer to a computer. Note: This can also be used in installing an optional Internal Solutions Port (ISP).
2	USB port	Attach an optional wireless network adapter.
3	Ethernet port	Connect the printer to a network.
4	USB printer port	Connect the printer to a computer.
5	Security slot	Attach a lock that will secure the controller board.
6	Printer power cord socket	Connect the printer to a properly grounded electrical outlet.

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.

Note: This feature is available only if you purchase optional trays and a caster base.

After attaching the Ethernet cable and power cord, neatly tuck the cables in the channels at the back of the printer.



Setting up the printer software

Installing the printer software

- 1 Obtain a copy of the software installer package.
- 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 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.

Networking

Notes:

- Purchase a wireless network adapter before setting up the printer on a wireless network. To install the wireless network adapter, see the instruction sheet that came with the adapter.
- A Service Set Identifier (SSID) is a name assigned to a wireless network. Wired Equivalent Privacy (WEP), Wi-Fi Protected Access (WPA), WPA2, and 802.1X - RADIUS are types of security used on a network.

Connecting the printer using the Wireless Setup Wizard

Before you begin, make sure that:

- A wireless network adapter is installed in the printer and is working properly. For more information, see the instruction sheet that came with the wireless network adapter.
- An Ethernet cable is disconnected from the printer.
- Active NIC is set to Auto. To set this to Auto, navigate to:

 > **Network/Ports** > **Active NIC** > **Auto** > 

Note: Make sure to turn off the printer, then wait for at least five seconds, and then turn the printer back on.

- 1 From the printer control panel, navigate to:

 > **Network/Ports** > **Network [x]** > **Network [x] Setup** > **Wireless** > **Wireless Connection Setup**

- 2 Select a wireless connection setup.

Use	To
Search for networks	Show available wireless connections. Note: This menu shows all broadcast secured or unsecured SSIDs.
Enter a network name	Manually type the SSID. Note: Make sure to type the correct SSID.
Wi-Fi Protected Setup	Connect the printer to a wireless network using Wi-Fi Protected Setup.

- 3 Follow the instructions on the printer display.

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

Before you begin, make sure that:

- The access point (wireless router) is Wi-Fi Protected Setup (WPS) certified or WPS-compatible. For more information, see the documentation that came with your access point.
- A wireless network adapter installed in your printer is attached and working properly. For more information, see the instruction sheet that came with the wireless network adapter.

Using the Push Button Configuration method

- 1 From the printer control panel, navigate to:



> **Network/Ports** > **Network [x]** > **Network [x] Setup** > **Wireless** > **Wireless Connection Setup** > **Wi-Fi Protected Setup** > **Start Push Button Method**

- 2 Follow the instructions on the printer display.

Using the Personal Identification Number (PIN) method

- 1 From the printer control panel, navigate to:



> **Network/Ports** > **Network [x]** > **Network [x] Setup** > **Wireless** > **Wireless Connection Setup** > **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:

- 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 setting.

Connecting the printer to a wireless network using the Embedded Web Server

Before you begin, make sure that:

- Your printer is connected temporarily to an Ethernet network.
- A wireless network adapter is installed in your printer and working properly. For more information, see the instruction sheet that came with the wireless network adapter.

- 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 control panel. 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** > **Network/Ports** > **Wireless**.

3 Modify the settings to match the settings of your access point (wireless router).

Note: Make sure to enter the correct SSID, security method, preshared key or passphrase, network mode, and channel.

4 Click **Submit**.

5 Turn off the printer, and then disconnect the Ethernet cable. Then wait for at least five seconds, and then turn the printer back on.

6 To verify if your printer is connected to the network, print a network setup page. Then in the Network Card [x] section, see if the status is Connected.

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)

After installing the serial or communication (COM) port, configure the printer and the computer.

Note: Serial printing reduces print speed.

- 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** Save the settings.
- 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.
Use the Run dialog box to open the command prompt, and then type **devmgmt.msc**.

Verifying printer setup

Printing a menu settings page

From the home screen, navigate to:



> **Reports > Menu Settings Page**

Printing a network setup page

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

- 1 From the home screen, navigate to:



> **Reports > Network Setup Page**

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

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

Loading paper and specialty media

The selection and handling of paper and specialty media can affect how reliably documents print. For more information, see [“Avoiding jams” on page 153](#) and [“Storing paper” on page 70](#).

Setting the paper size and type

From the home screen navigate to:

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

Configuring Universal paper settings

The Universal paper size is a user-defined setting that lets you print on paper sizes that are not preset in the printer menus.

Notes:

- The smallest supported Universal size is 70 x 127 mm (2.76 x 5 inches) for one-sided printing and 105 x 148 mm (4.13 x 5.83 inches) for two-sided (duplex) printing.
- The largest supported Universal size is 216 x 356 mm (8.5 x 14 inches) for one-sided and two-sided printing.
- When printing on paper less than 210 mm (8.3 inches) wide, the printer may print at a reduced speed after a period of time to ensure the best print performance.

1 From the home screen, navigate to:

 > **Paper Menu** > **Universal Setup** > **Units of Measure** > select a unit of measure

2 Touch **Portrait Width** or **Portrait Height**.

3 Select the width or height, and then touch .

Loading the 250- or 550-sheet tray

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

1 Pull out the tray.

Notes:

- When loading folio-, legal-, or Oficio-size paper, lift the tray slightly and pull it out completely.
- Do not remove trays while a job prints or while **Busy** appears on the display. Doing so may cause a jam.



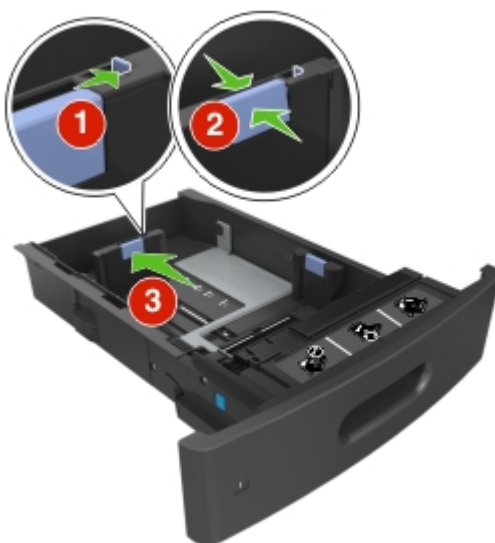
- 2** Squeeze and slide the width guide to the correct position for the size of the paper being loaded until it *clicks* into place.



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



- 3** Unlock the length guide, and then squeeze and slide the guide to the correct position for the size of the paper being loaded.



Notes:

- Lock the length guide for all paper sizes.
- Use the paper size indicators at the bottom of the tray to help position the guides.



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



- 5** Load the paper stack with the printable side facedown.

Note: Make sure the paper or envelope is loaded properly.

- There are different ways of loading letterhead depending on whether an optional staple finisher is installed or not.

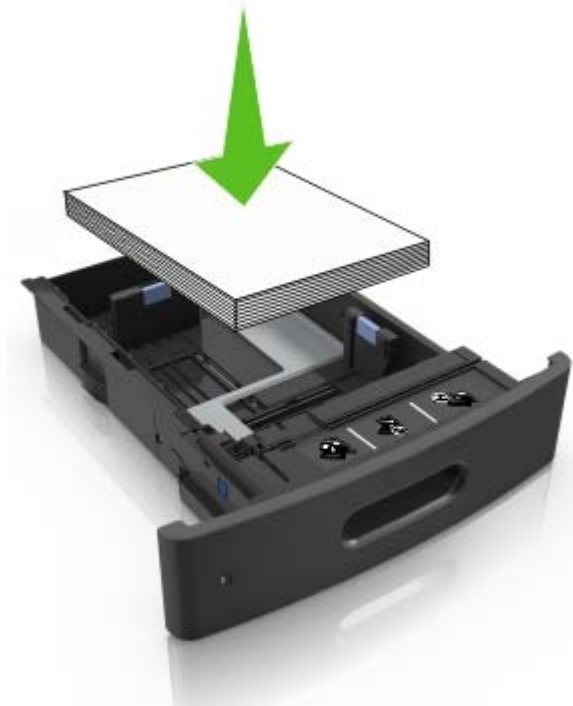
Without an optional staple finisher	With an optional staple finisher
 One-sided printing	 One-sided printing
 Two-sided printing	 Two-sided printing

- If you are loading prepunched paper for use with the staple finisher, then make sure the holes on the long edge of the paper are on the right side of the tray.

One-sided printing	Two-sided printing
	

Note: If the holes on the long edge of the paper are on the left side of the tray, then a jam may occur.

- Do not slide the paper into the tray. Load paper as shown in the illustration.



- If you are loading envelopes, then make sure that the flap side is facing up and the envelopes are on the left side of the tray.



- Make sure the paper is below the solid line, which is the maximum paper fill indicator.



Warning—Potential Damage: Overfilling the tray can cause paper jams.

- When using card stock, labels, or other types of specialty media, make sure the paper is below the dashed line, which is the alternate paper fill indicator.



- 6 For custom- or Universal-size paper, adjust the paper guides to lightly touch the sides of the stack, and then lock the length guide.
- 7 Insert the tray.



- 8 From the printer control panel, set the paper size and paper type in the Paper menu to match the paper loaded in the tray.

Note: Set the correct paper size and type to avoid paper jams and print quality problems.

Loading the 2100-sheet tray

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

- 1** Pull out the tray.
- 2** Adjust the width and length guides.

Loading A5-size paper

- a** Pull up and slide the width guide to the position for A5.



- b** Squeeze and slide the length guide to the position for A5 until it *clicks* into place.

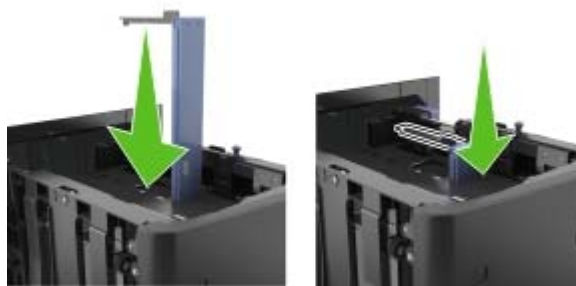


- c** Remove the A5 length guide from its holder.



- d** Insert the A5 length guide into its designated slot.

Note: Press the A5 length guide until it *clicks* into place.

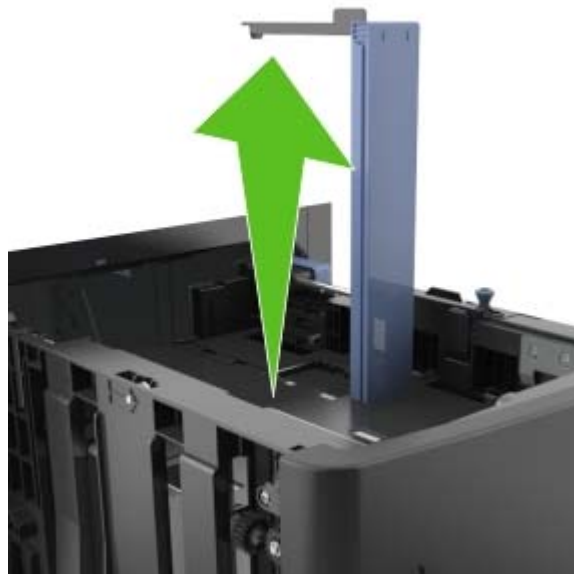


Loading A4-, letter-, legal-, Oficio-, and Folio-size paper

- a** Pull up and slide the width guide to the correct position for the size of the paper being loaded.



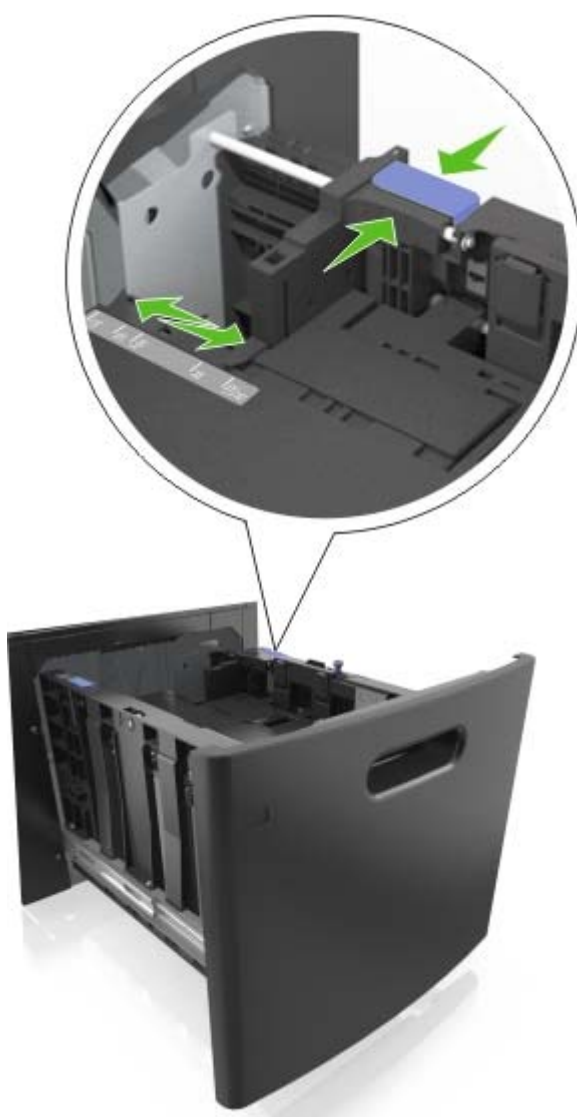
- b** If the A5 length guide is still attached to the length guide, then remove it from its place. If the A5 length guide is not attached, then proceed to step d.



- c** Put the A5 length guide in its holder.



- d** Squeeze the length guide and slide it to the correct position for the size of the paper being loaded until it *clicks* into place.



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



- 4** Load the paper stack with the printable side facedown.

Note: Make sure the paper is loaded properly.

- There are different ways of loading letterhead depending on whether an optional staple finisher is installed or not.

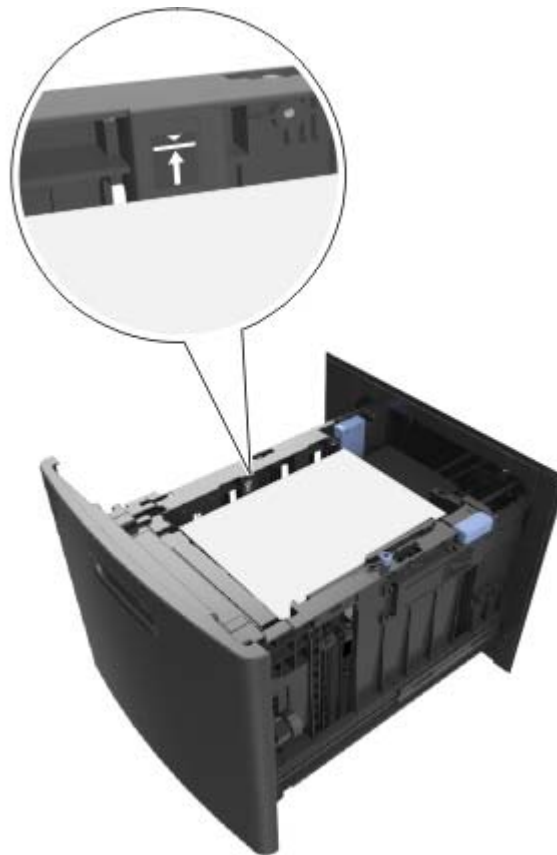
Without an optional staple finisher	With an optional staple finisher
 One-sided printing	 One-sided printing
 Two-sided printing	 Two-sided printing

- If you are loading prepunched paper for use with the staple finisher, then make sure the holes on the long edge of the paper are on the right side of the tray.

One-sided printing	Two-sided printing
	

Note: If the holes on the long edge of the paper are on the left side of the tray, then a jam may occur.

- Make sure the paper is below the maximum paper fill indicator.



Warning—Potential Damage: Overfilling the tray can cause paper jams.

5 Insert the tray.

Note: Press the paper stack down while inserting the tray.



- 6** From the printer control panel, set the paper size and type in the Paper menu to match the paper loaded in the tray.

Note: Set the correct paper size and type to avoid paper jams and print quality problems.

Loading the multipurpose feeder

- 1** Pull down the multipurpose feeder door.

Note: Do not load or close the multipurpose feeder while a job is printing.



- 2 Pull the multipurpose feeder extender.



Note: Guide the extender gently so that the multipurpose feeder is fully extended and open.

- 3 Slide the width guide to the correct position for the size of the paper being loaded.



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



4 Prepare the paper or specialty media for loading.

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



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



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

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



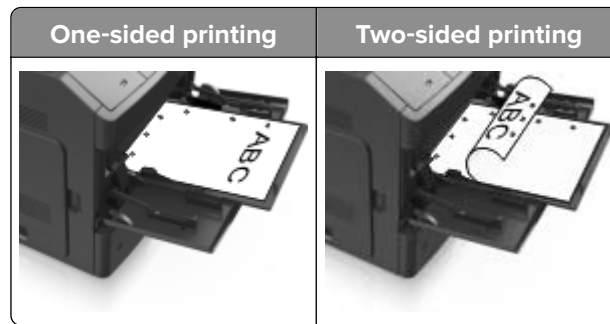
5 Load the paper or specialty media.

Note: Slide the stack gently into the multipurpose feeder until it comes to a stop.

- Load only one size and type of paper or specialty media at a time.
- Make sure the paper fits loosely in the multipurpose feeder, lies flat, and is not bent or wrinkled.
- There are different ways of loading letterhead depending on whether an optional staple finisher is installed or not.

Without an optional staple finisher	With an optional staple finisher
 One-sided printing	 One-sided printing
 Two-sided printing	 Two-sided printing

- If you are loading prepunched paper for use with the staple finisher, then make sure the holes on the long edge of the paper are on the right side of the tray.



Note: If the holes on the long edge of the paper are on the left side of the tray, then a jam may occur.

- Load envelopes with the flap side down and on the left of the multipurpose feeder.



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

- Make sure the paper or specialty media is below the maximum paper fill indicator.



Warning—Potential Damage: Overfilling the feeder can cause paper jams.

- 6 For custom- or Universal-size paper, adjust the width guides to lightly touch the sides of the stack.
- 7 From the Paper menu on the printer control panel, set the paper size and type in the Paper menu to match the paper loaded in the tray.

Note: Set the correct paper size and type to avoid paper jams and print quality problems.

Linking and unlinking trays

Linking and unlinking 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 Menu**.

- 3 Change the paper size and type settings for the trays you are linking.

- To link trays, make sure the paper size and type for the tray match that of the other tray.
- To unlink trays, make sure the paper size or type for the tray does *not* match that of the other tray.

- 4 Click **Submit**.

Note: You can also change the paper size and type settings using the printer control panel. For more information, see [“Setting the paper size and type” on page 46](#).

Warning—Potential Damage: Paper loaded in the tray should match the paper type name assigned in the printer. The temperature of the fuser varies according to the specified paper type. Printing issues may occur if settings are not properly configured.

Creating a custom name for a paper type

Using the Embedded Web Server

- 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 Menu > Custom Names**.

- 3 Select a custom name, and then type a custom paper type name.

- 4 Click **Submit**.

- 5 Click **Custom Types**, and then verify if the new custom paper type name has replaced the custom name.

Using the printer control panel

- 1 From the home screen, navigate to:



> **Paper Menu** > **Custom Names**

- 2 Select a custom name, and then type a custom paper type name.
- 3 Touch .
- 4 Touch **Custom Types**, and then verify that the new custom paper type name has replaced the custom name.

Assigning a custom paper type

Using the Embedded Web Server

Assign a custom paper type name to a tray when linking or unlinking 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 Menu** > **Custom Types**.
- 3 Select a custom paper type name, and then select a paper type
Note: Paper is the factory default paper type for all user-defined custom names.
- 4 Click **Submit**.

Using the printer control panel

- 1 From the home screen, navigate to:



> **Paper Menu** > **Custom Types**

- 2 Select a custom paper type name, and then select a paper type
Note: Paper is the factory default paper type for all user-defined custom names.
- 3 Touch .

Paper and specialty media guide

Using specialty media

Tips on using card stock

Card stock is heavy, single-ply specialty media. Many of its variable characteristics, such as moisture content, thickness, and texture, can significantly affect print quality.

- From the printer control panel, set the paper size, type, texture, and weight in the Paper menu to match the card stock loaded in the tray.
- Print samples on the card stock being considered for use before buying large quantities.
- Specify the paper texture and weight from the tray settings to match the paper loaded in the tray.
- Preprinting, perforation, and creasing may significantly affect the print quality and cause jams or other paper feed problems.
- Before loading the card stock on the tray, flex and fan the card stock to loosen them. Straighten the edges on a level surface.

Tips on using envelopes

- From the printer control panel, set the paper size, type, texture, and weight in the Paper menu to match the envelopes loaded in the tray.
- Print samples on the envelopes being considered for use before buying large quantities.
- Use envelopes designed specifically for laser printers.
- For best performance, use envelopes made from 90-g/m² (24-lb) paper or 25% cotton.
- Use only new envelopes from undamaged packages.
- To optimize performance and minimize jams, do not use envelopes that:
 - Have excessive curl or twist.
 - Are stuck together or damaged in any way.
 - Have windows, holes, perforations, cutouts, or embossing.
 - Have metal clasps, string ties, or folding bars.
 - Have an interlocking design.
 - Have postage stamps attached.
 - Have any exposed adhesive when the flap is in the sealed or closed position.
 - Have bent corners.
 - Have rough, cockle, or laid finishes.
- Adjust the width guides to fit the width of the envelopes.
- Before loading the envelopes on the tray, flex and fan the envelopes to loosen them. Straighten the edges on a level surface.

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

Tips on using labels

- From the printer control panel, set the paper size, type, texture, and weight in the Paper menu to match the labels loaded in the tray.
- Print samples on labels being considered for use before buying large quantities.
- Use labels designed specifically for laser printers.
- Do not use labels with slick backing material.
- Use full label sheets. Partial sheets may cause labels to peel off during printing, resulting in a jam. Partial sheets also contaminate the printer and the cartridge with adhesive, and could void the printer and toner cartridge warranties.
- Do not use labels with exposed adhesive.
- Before loading labels on the tray, flex and fan labels to loosen them. Straighten the edges on a level surface.

Tips on using letterhead

- Use letterhead designed specifically for laser printers.
- Print samples on the letterhead being considered for use before buying large quantities.
- Before loading letterhead, flex and fan the sheets to prevent them from sticking together.
- Page orientation is important when printing on letterhead.

Source	Printing	Printable side	Paper orientation
Trays	One-sided	Facedown	Load the sheet with the top edge toward the front of the tray.
Trays	Two-sided	Faceup	Load the sheet with the bottom edge entering the printer first.
Multipurpose feeder	One-sided	Faceup	Load the sheet with the top edge entering the printer first.
Multipurpose feeder	Two-sided	Facedown	Load the sheet with the bottom edge entering the printer first.
Note: Check with the manufacturer or vendor to determine whether the preprinted letterhead is acceptable for laser printers.			

Tips on using transparencies

- From the printer control panel, set the paper size, type, texture, and weight in the Paper menu to match the transparencies loaded in the tray.
- Print a test page on the transparencies being considered for use before buying large quantities.
- Use transparencies designed specifically for laser printers.
- Avoid getting fingerprints on the transparencies to prevent print quality problems.
- Before loading transparencies, flex and fan the sheets to prevent them from sticking together.

Paper guidelines

Paper characteristics

The following paper characteristics affect print quality and reliability. Consider these factors before printing on them:

Weight

The printer trays and multipurpose feeder can automatically feed paper weights between 60–176 g/m² (16–47-lb) grain long paper. The 2100-sheet tray can automatically feed paper weights up to 60–135 g/m² (16–36-lb) grain long paper. Paper lighter than 60 g/m² (16 lb) might not be stiff enough to feed properly, and may cause jams.

Note: Two-sided printing is supported for 60–176 g/m² (16–47-lb) paper.

Curl

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

Smoothness

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

Moisture content

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

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

Grain direction

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

For 60–176 g/m² (16–47-lb) paper, grain long paper is recommended.

Fiber content

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

Selecting paper

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

To help avoid paper jams and poor print quality:

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

Selecting preprinted forms and letterhead

- Use grain long for 60–90-g/m² (16–24-lb) paper.
- Use only forms and letterhead printed using an offset lithographic or engraved printing process.
- Avoid paper with rough or heavily textured surfaces.
- Use inks that are not affected by the resin in toner. Inks that are oxidation-set or oil-based generally meet these requirements; latex inks might not.
- Print samples on preprinted forms and letterheads considered for use before buying large quantities. This determines whether or not the ink in the preprinted form or letterhead will affect print quality.
- When in doubt, contact your paper supplier.

Using recycled paper and other office papers

As an environmentally conscientious company, we support the use of recycled paper produced specifically for use in laser (electrophotographic) printers.

While no blanket statement can be made that all recycled paper will feed well, we consistently test papers that represent recycled cut size copier papers available on the global market. This scientific testing is conducted with rigor and discipline. Many factors are taken into consideration both separately and as a whole, including the following:

- Amount of post-consumer waste (We test up to 100% post-consumer waste content.)
- Temperature and humidity conditions (Testing chambers simulate climates from all over the world.)
- Moisture content (Business papers should have low moisture: 4–5%.)
- Bending resistance and proper stiffness means optimum feeding through the printer.
- Thickness (impacts how much can be loaded into a tray)
- Surface roughness (measured in Sheffield units, impacts print clarity and how well toner fuses to the paper)
- Surface friction (determines how easily sheets can be separated)
- Grain and formation (impacts curling, which also influences the mechanics of how the paper behaves as it moves through the printer)
- Brightness and texture (look and feel)

Recycled papers are better than ever; however, the amount of recycled content in a paper affects the degree of control over foreign matter. And while recycled papers are one good path to printing in an environmentally responsible manner, they are not perfect. The energy required to de-ink and deal with additives such as colorants and “glue” often generates more carbon emissions than does normal paper production. However, using recycled papers enables better resource management overall.

We concern ourselves with the responsible use of paper in general based on life cycle assessments of its products. To gain a better understanding of the impact of printers on the environment, the company commissioned a number of life cycle assessments and found that paper was identified as the primary contributor (up to 80%) of carbon emissions caused throughout the entire life of a device (from design to end-of-life). This is due to the energy-intensive manufacturing processes required to make paper.

Thus, we seek to educate customers and partners on minimizing the impact of paper. Using recycled paper is one way. Eliminating excessive and unnecessary paper consumption is another. We are well-equipped to help customers minimize printing and copying waste. In addition, the company encourages purchasing paper from suppliers who demonstrate their commitment to sustainable forestry practices.

We do not endorse specific suppliers, although a converter's product list for special applications is maintained. However, the following paper choice guidelines will help alleviate the environmental impact of printing:

- 1** Minimize paper consumption.
- 2** Be selective about the origin of wood fiber. Buy from suppliers who carry certifications such as the Forestry Stewardship Council (FSC) or The Program for the Endorsement of Forest Certification (PEFC). These certifications guarantee that the paper manufacturer uses wood pulp from forestry operators that employ environmentally and socially responsible forest management and restoration practices.
- 3** Choose the most appropriate paper for printing needs: normal 75 or 80 g/m² certified paper, lower weight paper, or recycled paper.

Unacceptable paper examples

Test results indicate that the following paper types are at risk for use with laser printers:

- Chemically treated papers used to make copies without carbon paper, also known as *carbonless papers*
- Preprinted papers with chemicals that may contaminate the printer
- Preprinted papers that can be affected by the temperature in the printer fuser
- Preprinted papers that require a registration (the precise location on the page) greater than ± 2.3 mm (± 0.9 in.), such as optical character recognition (OCR) forms. In some cases, registration can be adjusted with a software application to successfully print on these forms.)
- Coated papers (erasable bond), synthetic papers, thermal papers
- Rough-edged, rough or heavily textured surface papers or curled papers
- Recycled papers that fail EN12281:2002 (European testing)
- Paper weighing less than 60 g/m² (16 lb)
- Multiple part forms or documents

Storing paper

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

- For best results, store paper where the temperature is 21°C (70°F) and the relative humidity is 40 percent. Most label manufacturers recommend printing in a temperature range of 18–24°C (65–75°F) with relative humidity between 40 and 60 percent.
- Store paper in cartons, on a pallet or shelf, rather than on the floor.
- Store individual packages on a flat surface.
- Do not store anything on top of individual paper packages.
- Take paper out of the carton or wrapper only when you are ready to load it in the printer. The carton and wrapper help keep the paper clean, dry, and flat.

Supported paper sizes, types, and weights

Paper types and weights supported by the printer

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

Paper type	250- or 550-sheet trays	2100-sheet tray	Multipurpose feeder	Duplex
Paper	✓	✓	✓	✓
Card stock	✓	X	✓	✓
Plain Envelope	✓	X	✓	X
Rough Envelope	✓	X	✓	X
Paper labels	✓	X	✓	X
Pharmacy labels	✓	X	✓	✓
Transparencies*	✓	X	✓	X

* Print on transparencies by batches of only up to 20 to prevent them from sticking together. For more information, see [“Tips on using transparencies” on page 67](#).

Paper sizes supported by the printer

Note: When printing on paper less than 210 mm (8.3 inches) wide, the printer may print at a reduced speed after a period of time to ensure the best print performance.

Paper size ¹	Dimensions	Standard or optional 250- or 550-sheet tray	Optional 2100-sheet tray	Multipurpose feeder	Duplex
A4	210 x 297 mm (8.3 x 11.7 in.)	✓	✓	✓	✓
A5	148 x 210 mm (5.8 x 8.3 in.)	✓	✓ ²	✓	✓
A6	105 x 148 mm (4.1 x 5.8 in.)	✓	X	✓	✓
JIS B5	182 x 257 mm (7.2 x 10.1 in.)	✓	X	✓	✓

¹ If your preferred default paper size cannot be set in the printer control panel, then you may select common paper sizes that correspond to the position of the length guide in the tray from the Paper Size/Type menu. If the paper size is not available, then select **Universal** or turn off tray size sensing. For more information, contact technical support.

² Paper is supported in long-edge orientation.

³ Universal is supported in duplex mode only if the width is from 105 mm (4.13 in.) to 216 mm (8.5 in.), and the length is from 148 mm (5.83 in.) to 356 mm (14 in.).

Paper size ¹	Dimensions	Standard or optional 250- or 550-sheet tray	Optional 2100-sheet tray	Multipurpose feeder	Duplex
Letter	216 x 279 mm (8.5 x 11 in.)	✓	✓	✓	✓
Legal	216 x 356 mm (8.5 x 14 in.)	✓	✓	✓	✓
Executive	184 x 267 mm (7.3 x 10.5 in.)	✓	X	✓	✓
Oficio	216 x 340 mm (8.5 x 13.4 in.)	✓	✓	✓	✓
Folio	216 x 330 mm (8.5 x 13 in.)	✓	✓	✓	✓
Statement	140 x 216 mm (5.5 x 8.5 in.)	✓	X	✓	✓
Universal³	105 x 148 mm to 216 x 356 mm (4.13 x 5.83 in. to 8.5 x 14 in.)	✓	X	✓	✓
	70 x 127 mm to 216 x 356 mm (2.76 x 5 to 8.5 x 14 in.)	X	X	✓	X
7 3/4 Envelope (Monarch)	98 x 191 mm (3.9 x 7.5 in.)	✓	X	✓	X
9 Envelope	98 x 225 mm (3.9 x 8.9 in.)	✓	X	✓	X
10 Envelope	105 x 241 mm (4.1 x 9.5 in.)	✓	X	✓	X
DL Envelope	110 x 220 mm (4.3 x 8.7 in.)	✓	X	✓	X
C5 Envelope	162 x 229 mm (6.38 x 9.01 in.)	✓	X	✓	X
B5 Envelope	176 x 250 mm (6.93 x 9.84 in.)	✓	X	✓	X

¹ If your preferred default paper size cannot be set in the printer control panel, then you may select common paper sizes that correspond to the position of the length guide in the tray from the Paper Size/Type menu. If the paper size is not available, then select **Universal** or turn off tray size sensing. For more information, contact technical support.

² Paper is supported in long-edge orientation.

³ Universal is supported in duplex mode only if the width is from 105 mm (4.13 in.) to 216 mm (8.5 in.), and the length is from 148 mm (5.83 in.) to 356 mm (14 in.).

Paper size ¹	Dimensions	Standard or optional 250- or 550-sheet tray	Optional 2100-sheet tray	Multipurpose feeder	Duplex
Other Envelope	98 x 162 mm (3.9 x 6.4 in.) to 176 x 250 mm (6.9 x 9.8 in.)	✓	X	✓	X

¹ If your preferred default paper size cannot be set in the printer control panel, then you may select common paper sizes that correspond to the position of the length guide in the tray from the Paper Size/Type menu. If the paper size is not available, then select **Universal** or turn off tray size sensing. For more information, contact technical support.

² Paper is supported in long-edge orientation.

³ Universal is supported in duplex mode only if the width is from 105 mm (4.13 in.) to 216 mm (8.5 in.), and the length is from 148 mm (5.83 in.) to 356 mm (14 in.).

Paper sizes, types, and weights supported by the output options

Supported paper sizes

Paper size	4-bin mailbox	Output expander and high-capacity output expander	Staple finisher	Staple, hole punch finisher
A6	✓	✓	X	X
A5	✓	✓	✓ ¹	✓ ^{1,3}
JIS B5	✓	✓	✓ ²	✓ ²
Executive	✓	✓	✓ ²	✓ ²
Letter	✓	✓	✓	✓
A4	✓	✓	✓	✓
Legal	✓	✓	✓	✓ ³
Folio	✓	✓	✓	✓
Oficio	✓	✓	✓	✓
Statement	✓	✓	✓ ²	✓ ²
Universal	✓	✓	✓ ⁴	✓ ^{3,4}
Envelopes	X	✓	X	X

¹ The finisher staples the paper if it is loaded long edge first.

² The finisher stacks the paper but does not staple or punch holes in it.

³ The finisher stacks and staples the paper but does not punch holes in it.

⁴ The finisher staples the paper if its width is from 210 mm (8.27 in.) to 217 mm (8.54 in.).

Supported paper types and weights

Paper type	Paper weight	4-bin mailbox	Output expander and high-capacity output expander	Staple finisher	Staple, hole punch finisher
Plain Paper	90–176 g/m ² (24–47 lb bond)	X	✓	X	X
	60–90 g/m ² (16–24 lb bond)	✓	✓	✓	✓
Card Stock	163 g/m ² (90 lb index)	X	✓	✓ ¹	✓ ¹
	199 g/m ² (110 lb index)	X	✓	X	X
Transparency²	146 g/m ² (39 lb bond)	X	✓	✓ ¹	✓ ¹
Recycled	90–176 g/m ² (24–47 lb bond)	X	✓	X	X
	60–90 g/m ² (16–24 lb bond)	✓	✓	✓	✓
Paper labels	180 g/m ² (48 lb bond)	X	✓	X	X
Dual web and Integrated	180 g/m ² (48 lb bond)	X	✓	X	X
Bond	90–176 g/m ² (24–47 lb bond)	X	✓	X	X
	60–90 g/m ² (16–24 lb bond)	✓	✓	✓	✓
Envelope	105 g/m ² (28 lb bond)	X	✓	X	X
Rough Envelope	105 g/m ² (28 lb bond)	X	✓	X	X
Letterhead	90–176 g/m ² (24–47 lb bond)	X	✓	X	X
	60–90 g/m ² (16–24 lb bond)	✓	✓	✓	✓

¹ The finisher stacks the paper but does not staple or punch holes in it.

² Print on transparencies by batches of only up to 20 to prevent them from sticking together. For more information, see [“Tips on using transparencies” on page 67](#).

Paper type	Paper weight	4-bin mailbox	Output expander and high-capacity output expander	Staple finisher	Staple, hole punch finisher
Preprinted	90–176 g/m ² (24–47 lb bond)	x	✓	x	x
	60–90 g/m ² (16–24 lb bond)	✓	✓	✓	✓
Colored Paper	90–176 g/m ² (24–47 lb bond)	x	✓	x	x
	60–90 g/m ² (16–24 lb bond)	✓	✓	✓	✓
Light paper	90–176 g/m ² (24–47 lb bond)	x	✓	x	x
	60–90 g/m ² (16–24 lb bond)	✓	✓	✓	✓
Heavy paper	90–176 g/m ² (24–47 lb bond)	x	✓	x	x
	60–90 g/m ² (16–24 lb bond)	✓	✓	✓	✓
Rough/cotton	90–176 g/m ² (24–47 lb bond)	x	✓	x	x
	60–90 g/m ² (16–24 lb bond)	✓	✓	✓	✓
Custom type [x]	90–176 g/m ² (24–47 lb bond)	x	✓	x	x
	60–90 g/m ² (16–24 lb bond)	✓	✓	✓	✓

¹ The finisher stacks the paper but does not staple or punch holes in it.

² Print on transparencies by batches of only up to 20 to prevent them from sticking together. For more information, see [“Tips on using transparencies” on page 67](#).

Printing

Printing a document

Printing from a computer

Note: For specialty media such as labels, card stock, and envelopes, set the paper size and type in the printer before sending the print job.

- 1 With a document open, click **File > Print**.
- 2 If necessary, adjust the settings.
- 3 Send the print job.

Adjusting toner darkness

Using the Embedded Web Server

- 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 > Print Settings > Quality Menu > Toner Darkness**.
- 3 Adjust the setting, and then click **Submit**.

Using the printer control panel

- 1 From the home screen, navigate to:



> **Settings > Print Settings > Quality Menu > Toner Darkness**

- 2 Adjust the setting, and then touch

Printing from a flash drive

Printing from a flash drive

Notes:

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

1 Insert a flash drive into the USB port.



Notes:

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

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



- 2 From the printer control panel, touch the document you want to print.
- 3 Touch the arrows to specify the number of copies for printing, and then touch **Print**.

Notes:

- Do not remove the flash drive from the USB port until the document has finished printing.
- If you leave the flash drive in the printer after leaving the initial USB menu screen, then touch **Held Jobs** on the home screen to print files from the flash drive.

Supported flash drives and file types

Notes:

- High-speed USB flash drives must support the full-speed standard. Low-speed USB devices are not supported.
- USB flash drives must support the File Allocation Table (FAT) system. Devices formatted with New Technology File System (NTFS) or any other file system are not supported.

Recommended flash drives	File type
Many flash drives are tested and approved for use with the printer. For more information, visit www.dell.com/support/printers .	Documents: • .pdf • .xps Images: • .dcx • .gif • .jpeg or .jpg • .bmp • .pcx • .tiff or .tif • .png • .fls

Printing from a mobile device

Note: Make sure that the printer and mobile device share the same wireless network. For information on configuring the wireless settings of your mobile device, see the documentation that came with the device.

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 the printer.
- 3 Send the print job.

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 the printer.
- 3 Send the print job.

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.

Note: This application is supported only in some Apple devices.

- 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 the printer.
- 4 Send the print job.

Printing from a mobile device using Dell Document Hub

- 1 From Google Play, download the Dell Document Hub application.



- 2 From the home screen of your mobile device, tap
- 3 Select the item to print.
- 4 Tap **Print**.

Printing confidential and other held jobs

Storing print jobs in the printer

1 From the home screen, navigate to:

 > **Security** > **Confidential Print** > select a print job type

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 and PIN are deleted.
Confidential Job Expiration	Hold print jobs in the computer until you enter the PIN from the printer control panel. Note: The PIN is set from the computer. It must be four digits, using the numbers 0–9.
Repeat Job Expiration	Print and store print jobs in the printer memory.
Verify Job Expiration	Print one copy of a print job and hold the remaining copies. It lets you examine if the first copy is satisfactory or not. The print job is automatically deleted from the printer memory when all copies are printed.
Reserve Job Expiration	Store print jobs for printing at a later time. Note: The print jobs are held until deleted from the Held Jobs menu.
Notes: - Confidential, Verify, Reserve, and Repeat print jobs may be deleted if the printer requires extra memory to process additional held jobs. - You can set the printer to store print jobs in the printer memory until you start the print job from the printer control panel. - All print jobs that can be initiated by the user at the printer are called <i>held jobs</i>.	

2 Touch .

Printing confidential and other held jobs

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

For Windows users

- 1 With a document open, click **File** > **Print**.
- 2 Click **Properties**, **Preferences**, **Options**, or **Setup**.
- 3 Click **Print and Hold**.
- 4 Select the print job type (Confidential, Repeat, Reserve, or Verify), and then assign a user name. For a confidential print job, also enter a four-digit PIN.
- 5 Click **OK** or **Print**.

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

- For confidential print jobs, navigate to:
Held jobs > select your user name > **Confidential Jobs** > enter the PIN > **Print**
- For other print jobs, navigate to:
Held jobs > select your user name > select the print job > specify the number of copies > **Print**

For Macintosh users

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

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

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

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

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

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

- For confidential print jobs, navigate to:
Held jobs > select your user name > **Confidential Jobs** > enter the PIN > **Print**
- For other print jobs, navigate to:
Held jobs > select your user name > select the print job > specify the number of copies > **Print**

Canceling a print job

Canceling a print job from the printer control panel

- 1** From the home screen, touch **Cancel Jobs**, or press  on the keypad.
- 2** Touch the job you want to cancel, and then touch .
- 3** Press  on the keypad to return to the home screen.

Canceling a print job 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 print job to cancel.

Understanding printer menus

Menus list

Paper Menu

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¹ Depending on the printer setup, this menu item appears as Network Setup Page or Network [x] Setup Page.

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

Paper menu

Default Source menu

Use	To
Default Source Tray [x] Multipurpose Feeder Manual Paper Manual Envelope	Set a default paper source for all print jobs. Notes: • Tray 1 (standard tray) is the factory default setting. • From the Paper menu, set Configure MP to "Cassette" for Multipurpose Feeder to appear as a menu setting. • If two trays contain paper of the same size and type, and the trays have the same settings, then the trays are automatically linked. When one tray is empty, the print job continues using the linked tray.

Paper Size/Type menu

Use	To
Tray [x] Size A4 A5 A6 JIS-B5 Letter Legal Executive Oficio (Mexico) Folio Statement Universal 7 3/4 Envelope 9 Envelope 10 Envelope DL Envelope C5 Envelope B5 Envelope Other Envelope	Specify the paper size loaded in each tray. Notes: • Letter is the U.S. factory default setting. A4 is the international factory default setting. • If two trays contain paper of the same size and type, and the trays have the same settings, then the trays are automatically linked. The multipurpose feeder may also be linked. When one tray is empty, the print job continues using the linked tray. • The A6 paper size is supported only in Tray 1 and in the multipurpose feeder.
Note: Only installed trays and feeders are listed in this menu.	

Use	To
Tray [x] Type Plain Paper Card Stock Transparency Recycled Labels Bond Envelope Rough Envelope Letterhead Preprinted Colored Paper Light Paper Heavy Paper Rough/Cotton Custom Type [x]	Specify the paper type loaded in each tray. Notes: • Plain Paper is the factory default setting for Tray 1. Custom Type [x] is the factory default setting for all other trays. • If available, a user-defined name will appear instead of Custom Type [x]. • Use this menu to configure automatic tray linking.
MP Feeder Size A4 A5 A6 JIS B5 Letter Legal Executive Oficio (Mexico) Folio Statement Universal 7 3/4 Envelope 9 Envelope 10 Envelope DL Envelope C5 Envelope B5 Envelope Other Envelope	Specify the paper size loaded in the multipurpose feeder. Notes: • Letter is the U.S. factory default setting. A4 is the international factory default setting. • From the Paper menu, set Configure MP to “Cassette” for MP Feeder Size to appear as a menu. • The multipurpose feeder does not automatically detect paper size. Make sure to set the paper size value.
Note: Only installed trays and feeders are listed in this menu.	

Use	To
MP Feeder Type Plain Paper Card Stock Transparency Recycled Labels Bond Envelope Rough Envelope Letterhead Preprinted Colored Paper Light Paper Heavy Paper Rough/Cotton Custom Type [x]	Specify the paper type loaded in the multipurpose feeder. Notes: • Plain Paper is the factory default setting. • From the Paper menu, set Configure to “Cassette” for MP Feeder Type to appear as a menu.
Manual Paper Size A4 A5 A6 JIS B5 Letter Legal Executive Oficio (Mexico) Folio Statement Universal	Specify the paper size being manually loaded. Note: Letter is the U.S. factory default setting. A4 is the international factory default setting.
Manual Paper Type Plain Paper Card Stock Transparency Recycled Labels Bond Letterhead Preprinted Colored Paper Light Paper Heavy Paper Rough/Cotton Custom Type [x]	Specify the paper type being manually loaded. Notes: • Plain Paper is the factory default setting. • From the Paper menu, set Configure MP to “Manual” for Manual Paper Type to appear as a menu.
Note: Only installed trays and feeders are listed in this menu.	

Use	To
Manual Envelope Size 7 3/4 Envelope 9 Envelope 10 Envelope DL Envelope C5 Envelope B5 Envelope Other Envelope	Specify the envelope size being manually loaded. Note: 10 Envelope is the U.S. factory default setting. DL Envelope is the international factory default setting.
Manual Envelope Type Envelope Rough Envelope Custom Type [x]	Specify the envelope type being manually loaded. Note: Envelope is the factory default setting.
Note: Only installed trays and feeders are listed in this menu.	

Configure MP menu

Use	To
Configure MP Cassette Manual First	Determine when the printer selects paper from the multipurpose feeder. Notes: • Cassette is the factory default setting. Cassette configures the multipurpose feeder as the automatic paper source. • Manual sets the multipurpose feeder only for manual-feed print jobs. • First configures the multipurpose feeder as the primary paper source.

Substitute Size menu

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

Paper Texture menu

Use	To
Plain Texture Smooth Normal Rough	Specify the relative texture of the plain paper loaded in a specific tray. Note: Normal is the factory default setting.
Card Stock Texture Smooth Normal Rough	Specify the relative texture of the card stock loaded in a specific tray. Notes: • Normal is the factory default setting. • These options appear only if card stock is supported.
Transparency Texture Smooth Normal Rough	Specify the relative texture of the transparencies loaded in a specific tray. Note: Normal is the factory default setting.
Recycled Texture Smooth Normal Rough	Specify the relative texture of the recycled paper loaded in a specific tray. Note: Normal is the factory default setting.
Labels Texture Smooth Normal Rough	Specify the relative texture of the labels loaded in a specific tray. Note: Normal is the factory default setting.
Vinyl Labels Texture Smooth Normal Rough	Specify the relative texture of the vinyl labels loaded in a specific tray. Note: Normal is the factory default setting.
Bond Texture Smooth Normal Rough	Specify the relative texture of the bond paper loaded in a specific tray. Note: Rough is the factory default setting.
Envelope Texture Smooth Normal Rough	Specify the relative texture of the envelopes loaded in a specific tray. Note: Normal is the factory default setting.
Rough Envelope Texture Rough	Specify the relative texture of the rough envelopes loaded in a specific tray. Note: Rough is the factory default setting.
Letterhead Texture Smooth Normal Rough	Specify the relative texture of the letterhead loaded in a specific tray. Note: Normal is the factory default setting.

Use	To
Preprinted Texture Smooth Normal Rough	Specify the relative texture of the preprinted paper loaded in a specific tray. Note: Normal is the factory default setting.
Colored Texture Smooth Normal Rough	Specify the relative texture of the colored paper loaded in a specific tray. Note: Normal is the factory default setting.
Light Texture Smooth Normal Rough	Specify the relative texture of the light paper loaded in a specific tray. Note: Normal is the factory default setting.
Heavy Texture Smooth Normal Rough	Specify the relative texture of the heavy paper loaded in a specific tray. Note: Normal is the factory default setting.
Rough/Cotton Texture Rough	Specify the relative texture of the rough or cotton paper loaded in a specific tray. Note: Rough is the factory default setting.
Custom [x] Texture Smooth Normal Rough	Specify the relative texture of the custom paper loaded in a specific tray. Note: Normal is the factory default setting.

Paper Weight menu

Use	To
Plain Weight Light Normal Heavy	Specify the relative weight of the plain paper loaded. Note: Normal is the factory default setting.
Card Stock Weight Light Normal Heavy	Specify the relative weight of the card stock loaded. Note: Normal is the factory default setting.
Transparency Weight Light Normal Heavy	Specify the relative weight of the transparencies loaded. Note: Normal is the factory default setting.
Recycled Weight Light Normal Heavy	Specify the relative weight of the recycled paper loaded. Note: Normal is the factory default setting.

Use	To
Labels Weight Light Normal Heavy	Specify the relative weight of the labels loaded. Note: Normal is the factory default setting.
Vinyl Labels Weight Light Normal Heavy	Specify the relative weight of the vinyl labels loaded. Note: Normal is the factory default setting.
Bond Weight Light Normal Heavy	Specify the relative weight of the bond paper loaded. Note: Normal is the factory default setting.
Envelope Weight Light Normal Heavy	Specify the relative weight of the envelope loaded. Note: Normal is the factory default setting.
Rough Envelope Weight Light Normal Heavy	Specify the relative weight of the rough envelope loaded. Note: Normal is the factory default setting.
Letterhead Weight Light Normal Heavy	Specify the relative weight of the letterhead loaded. Note: Normal is the factory default setting.
Preprinted Weight Light Normal Heavy	Specify the relative weight of the preprinted paper loaded. Note: Normal is the factory default setting.
Colored Weight Light Normal Heavy	Specify the relative weight of the colored paper loaded. Note: Normal is the factory default setting.
Light Weight Light	Specify that the weight of the paper loaded is light.
Heavy Weight Heavy	Specify that the weight of the paper loaded is heavy.
Rough/Cotton Weight Light Normal Heavy	Specify the relative weight of the cotton or rough paper loaded. Note: Normal is the factory default setting.

Use	To
Custom [x] Weight Light Normal Heavy	Specify the relative weight of the custom paper loaded. Notes: • Normal is the factory default setting. • The options appear only when the custom type is supported.

Paper Loading menu

Use	To
Card Stock Loading Duplex Off	Determine and set two-sided printing for all print jobs with Card Stock as the paper type.
Recycled Loading Duplex Off	Determine and set two-sided printing for all print jobs with Recycled as the paper type.
Labels Loading Duplex Off	Determine and set two-sided printing for all print jobs with Labels as the paper type.
Vinyl Labels Loading Duplex Off	Determine and set two-sided printing for all print jobs with Vinyl Labels as the paper type.
Bond Loading Duplex Off	Determine and set two-sided printing for all print jobs with Bond as the paper type.
Letterhead Loading Duplex Off	Determine and set two-sided printing for all print jobs with Letterhead as the paper type.
Preprinted Loading Duplex Off	Determine and set two-sided printing for all print jobs with Preprinted as the paper type.
Colored Loading Duplex Off	Determine and set two-sided printing for all print jobs with Colored as the paper type.
Light Loading Duplex Off	Determine and set two-sided printing for all print jobs with Light as the paper type.
Notes: • Off is the factory default setting for all Paper Loading menu selections. • Duplex sets the printer default to two-sided printing for every print job unless one-sided printing is selected from Print Properties or the print dialog, depending on your operating system.	

Use	To
Heavy Loading Duplex Off	Determine and set two-sided printing for all print jobs with Heavy as the paper type.
Rough/Cotton Loading Duplex Off	Determine and set two-sided printing for all print jobs with Rough or Cotton as the paper type.
Custom [x] Loading Duplex Off	Determine and set two-sided printing for all print jobs with Custom [x] as the paper type. Note: Custom [x] Loading is available only when the custom type is supported.
Notes: • Off is the factory default setting for all Paper Loading menu selections. • Duplex sets the printer default to two-sided printing for every print job unless one-sided printing is selected from Print Properties or the print dialog, depending on your operating system.	

Custom Types menu

Use	To
Custom Type [x] Paper Card Stock Transparency Rough/Cotton Labels Envelope	Associate a paper or specialty media type with a factory default custom type name or a user-defined custom name created from the Embedded Web Server. Notes: • Paper is the factory default setting. • The custom media type must be supported by the selected tray or multipurpose feeder to print from that source.
Recycled Paper Card Stock Transparency Rough/Cotton Labels Envelope	Specify a paper type when Recycled is selected in other menus. Notes: • Paper is the factory default setting. • The custom media type must be supported by the selected tray or multipurpose feeder to print from that source.

Custom Names menu

Use	To
Custom Name [x]	Specify a custom name for a paper type. This name replaces Custom Type [x] in the printer menus.

Custom Bin Names menu

Note: This menu appears only in touch-screen printer models.

Use	To
Standard Bin	Specify a custom name for the standard bin.
Bin [x]	Specify a custom name for Bin [x].

Universal Setup menu

Use	To
Units of Measure Inches Millimeters	Identify the units of measure. Notes: • Inches is the U.S. factory default setting. • Millimeters is the international factory default setting.
Portrait Width 3–14.17 inches 76–360 mm	Set the portrait width. Notes: • If the width exceeds the maximum, then the printer uses the maximum width allowed. • 8.5 inches is the U.S. factory default setting. You can increase the width in 0.01-inch increments. • 216 mm is the international factory default setting. You can increase the width in 1-mm increments.
Portrait Height 3–14.17 inches 76–360 mm	Set the portrait height. Notes: • If the height exceeds the maximum, then the printer uses the maximum height allowed. • 14 inches is the U.S. factory default setting. You can increase the height in 0.01-inch increments. • 356 mm is the international factory default setting. You can increase the height in 1-mm increments.
Feed Direction Short Edge Long Edge	Specify the feed direction if the paper can be loaded in either direction. Notes: • Short Edge is the factory default setting. • Long Edge appears only when the longest edge is shorter than the maximum width supported in the tray.

Bin Setup menu

Use	To
Output Bin Standard Bin Bin [x]	Specify the default bin. Notes: • If multiple bins are assigned the same name, then the name appears only once in the menu. • Standard Bin is the factory default setting.
Configure Bins Mailbox Link Mail Overflow Link Optional Type Assignment	Specify configuration options for bins. Notes: • Mailbox is the factory default setting. This setting treats each bin as a separate mailbox. • Link configures all available bins as one large bin. • Mail Overflow configures each bin as a separate mailbox. • Link Optional links all available bins except the standard bin and only appears when at least two optional bins are installed. • Type Assignment assigns each paper type to a bin or linked bin set. • Bins assigned the same name are automatically linked unless Link Optional is selected.
Overflow Bin Standard Bin Bin [x]	Specify an alternative bin when a designated bin is full. Notes: • Standard Bin is the factory default setting. • If multiple bins are assigned the same name, then the name only appears once in the bin list. • [x] can be any number between 1 and 12 if the appropriate optional bins are installed.

Use	To
Assign Type/Bin Plain Paper Bin Card Stock Bin Transparency Bin Recycled Bin Labels Bin Vinyl Labels Bin Bond Bin Envelope Bin Rough Envelope Bin Letterhead Bin Preprinted Bin Colored Bin Light Paper Bin Heavy Paper Bin Rough/Cotton Bin Custom [x] Bin	Select a bin for each supported paper type. For each type, select the following options: Disabled Standard Bin Bin [x] Notes: • Disabled is the factory default setting. • [x] can be any number between 1 and 12 if the appropriate optional bins are installed. • If multiple bins are assigned the same name, then the name only appears once in the bin list.

Reports menu

Reports menu

Use	To
Menu Settings Page	Print a report on the current printer menu settings, supplies status, and a list of installed hardware options.
Device Statistics	Print a report containing printer statistics such as supply information and number of printed pages.
Stapler Test	Print a report about the status of the staple finisher. Note: This menu item appears only if an optional staple finisher is installed.
Network Setup Page	Print a report about the printer network settings. Note: This menu item appears only in network printers or printers connected to print servers.
Network [x] Setup Page	Print a report about the printer network settings. Note: This menu item appears only in network printers or printers connected to print servers, and when there is more than one network option installed.
Profiles List	Print a list of profiles stored in the printer.
Print Fonts PCL Fonts PostScript Fonts	Print a report of all the fonts available for the printer language currently set in the printer.

Use	To
Print Directory	Print a list of all the resources stored in an optional flash memory card or printer hard disk. Notes: • Job Buffer Size must be set to 100%. • Make sure that the memory card or hard disk is installed and working properly.
Print Demo Demo Page [list of available demo pages]	Print demo files that are available in the firmware, flash, and disk options.
Asset Report	Print a report containing printer asset information such as serial number and model name.
Event Log Summary	Print a summary of logged events.

Network/Ports menu

Active NIC menu

Use	To
Active NIC Auto [list of available network cards]	Allow the printer to connect to a network. Notes: • Auto is the factory default setting. • This menu item appears only if an optional network adapter is installed.

Standard Network or Network [x] menu

Note: Only active ports appear in this menu.

Use	To
Energy Efficient Ethernet Enable Disable	Reduce power consumption when the printer receives no data from the Ethernet network. Note: Enable is the factory default setting.
PCL SmartSwitch On Off	Set the printer to automatically switch to PCL emulation when a print job requires it, regardless of the default printer language. Notes: • On is the factory default setting. • If PCL SmartSwitch is disabled, then the printer does not examine incoming data and it uses the default printer language specified in the Setup menu.

Use	To
PS SmartSwitch On Off	Set the printer to automatically switch to PS emulation when a print job requires it, regardless of the default printer language. Notes: • On is the factory default setting. • If PS SmartSwitch is disabled, then the printer does not examine incoming data and it uses the default printer language specified in the Setup menu.
NPA Mode Off Auto	Set the printer to perform the special processing required for bidirectional communication following the conventions defined by the NPA protocol. Notes: • Auto is the factory default setting. • The printer automatically restarts when the setting is changed from the control panel.
Network Buffer Auto 3KB to [maximum size allowed]	Set the size of the network input buffer. Notes: • Auto is the factory default setting. • The maximum size allowed depends on the amount of memory in the printer, the size of the other link buffers, and whether Resource Save is set to On or Off. • To increase the maximum size range for the Network Buffer, disable or reduce the size of the parallel, serial, and USB buffers. • The printer automatically restarts when the setting is changed from the control panel.
Job Buffering Off On Auto	Temporarily store print jobs in the printer hard disk before printing. This menu only appears when a formatted disk is installed. Notes: • Off is the factory default setting. • The printer automatically restarts when the setting is changed from the control panel. The menu selection is then updated.
Mac Binary PS On Off Auto	Set the printer to process Macintosh binary PostScript print jobs. Note: Auto is the factory default setting.
Standard Network Setup OR Network [x] Setup Reports Network Card TCP/IP IPv6 Wireless AppleTalk	Show and set the printer network settings. Note: The Wireless menu appears only when the printer is connected to a wireless network.

Reports menu

To access the menu, navigate to either of the following:

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

Use	To
Print Setup Page	Print a report containing information about the network printer settings, such as the TCP/IP address.

Network Card menu

To access the menu, navigate to either of the following:

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

Use	To
View Card Status Connected Disconnected	View the connection status of the wireless network adapter.
View Card Speed	View the speed of an active wireless network adapter.
Network Address UAA LAA	View the network addresses.
Job Timeout 0, 10–225 seconds	Set the amount of time it takes for a network print job to be canceled. Notes: • “90 seconds” is the factory default setting. • A setting value of 0 disables the timeout. • If a value between 1 and 9 is selected, then Invalid appears on the display, and the value is not saved.
Banner Page Off On	Allow the printer to print a banner page. Note: Off is the factory default setting.

TCP/IP menu

To access the menu, navigate to either of the following:

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

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

Use	To
Set Hostname	Set the current TCP/IP host name. Note: This can be changed only from the Embedded Web Server.

Use	To
IP Address	View or change the current TCP/IP address. Note: Manually setting the IP address sets the Enable DHCP and Enable Auto IP settings to Off. It also sets Enable BOOTP and Enable RARP to Off on systems that support BOOTP and RARP.
Netmask	View or change the current TCP/IP netmask.
Gateway	View or change the current TCP/IP gateway.
Enable DHCP On Off	Specify the DHCP address and parameter assignment. Note: On is the factory default setting.
Enable RARP On Off	Specify the RARP address assignment setting. Note: Off is the factory default setting.
Enable BOOTP On Off	Specify the BOOTP address assignment setting. Note: On is the factory default setting.
Enable AutoIP Yes No	Specify the Zero Configuration Networking setting. Note: Yes is the factory default setting.
Enable FTP/TFTP Yes No	Enable the built-in FTP server, which lets you send files to the printer using File Transfer Protocol. Note: Yes is the factory default setting.
Enable HTTP Server Yes No	Enable the built-in Web server (Embedded Web Server). When enabled, the printer can be monitored and managed remotely using a Web browser. Note: Yes is the factory default setting.
WINS Server Address	View or change the current WINS server address.
Enable DDNS Yes No	View or change the current DDNS setting. Note: Yes is the factory default setting.
Enable mDNS Yes No	View or change the current mDNS setting. Note: Yes is the factory default setting.
DNS Server Address	View or change the current DNS server address.
Backup DNS Server Address	View or change the backup DNS server addresses.
Backup DNS Server Address 2	
Backup DNS Server Address 3	
Enable HTTPS Yes No	View or change the current HTTPS setting. Note: Yes is the factory default setting.

IPv6 menu

To access the menu, navigate to any of the following:

- **Network/Ports menu > Standard Network > Standard Network Setup > IPv6**
- **Network/Ports menu > Network [x] > Network [x] Setup > IPv6**

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

Use	To
Enable IPv6 On Off	Enable IPv6 in the printer. Note: On is the factory default setting.
Auto Configuration On Off	Specify whether or not the network adapter accepts the automatic IPv6 address configuration entries provided by a router. Note: On is the factory default setting.
Set Hostname	Set the host name.
View Address	Note: These settings can be changed only from the Embedded Web Server.
View Router Address	
Enable DHCPv6 On Off	Enable DHCPv6 in the printer. Note: On is the factory default setting.

Wireless menu

Note: This menu is available only in printers connected to a wireless network or printer models that have a wireless network adapter.

To access the menu, navigate to:

Network/Ports > Network [x] > Network [x] Setup > Wireless

Use	To
Wi-Fi Protected Setup Start Push Button Method Start PIN Method	Establish a wireless network and enable network security. Notes: • Start Push Button Method connects the printer to a wireless network when buttons on both the printer and the access point (wireless router) are pressed within a given period of time. • Start PIN Method connects the printer to a wireless network when a PIN on the printer is entered into the wireless settings of the access point.
Enable/Disable WPS Auto-detection Enable Disable	Automatically detect the connection method that an access point with WPS uses—Start Push Button Method or Start PIN Method. Note: Disable is the factory default setting.

Use	To
Network Mode BSS Type Infrastructure Ad hoc	Specify the network mode. Notes: • Infrastructure is the factory default setting. This lets the printer access a network using an access point. • Ad hoc configures wireless connection directly between the printer and a computer.
Compatibility 802.11b/g 802.11b/g/n	Specify the wireless standard for the wireless network. Note: 802.11b/g/n is the factory default setting.
Choose Network	Select an available network for the printer to use.
View Signal Quality	View the quality of the wireless connection.
View Security Mode	View the encryption method for the wireless network.

AppleTalk menu

To access the menu, navigate to either of the following:

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

Use	To
Activate Yes No	Enable or disable AppleTalk support. Note: No is the factory default setting.
View Name	Show the assigned AppleTalk name. Note: The AppleTalk name can be changed only from the Embedded Web Server.
View Address	Show the assigned AppleTalk address. Note: The AppleTalk address can be changed only from the Embedded Web Server.
Set Zone [list of zones available on the network]	Provide a list of AppleTalk zones available on the network. Note: The default zone for the network is the factory default setting.

Standard USB menu

Use	To
PCL SmartSwitch On Off	Set the printer to automatically switch to PCL emulation when a print job received through a USB port requires it, regardless of the default printer language. Notes: • On is the factory default setting. • When set to Off, the printer does not examine incoming data. The printer uses PostScript emulation if the PS SmartSwitch is set to On. It uses the default printer language specified in the Setup menu if the PS SmartSwitch is set to Off.
PS SmartSwitch On Off	Set the printer to automatically switch to PS emulation when a print job received through a USB port requires it, regardless of the default printer language. Notes: • On is the factory default setting. • When set to Off, the printer does not examine incoming data. The printer uses PCL emulation if the PCL SmartSwitch is set to On. It uses the default printer language specified in the Setup menu if the PCL SmartSwitch is set to Off.
NPA Mode On Off Auto	Set the printer to perform the special processing required for bidirectional communication following the conventions defined by the NPA protocol. Notes: • Auto is the factory default setting. Auto sets the printer to examine data, determine the format, and then process it appropriately. • The printer automatically restarts when changing the setting from the printer control panel. The menu selection is then updated.
USB Buffer Disabled Auto 3K to [maximum size allowed]	Set the size of the USB input buffer. Notes: • Auto is the factory default setting. • Disabled turns off job buffering. Any jobs already buffered on the printer hard disk are printed before normal processing resumes. • The USB buffer size value can be changed in 1-K increments. • The maximum size allowed depends on the amount of memory in the printer, the size of the other link buffers, and whether Resource Save is set to On or Off. • To increase the maximum size range for the USB Buffer, disable or reduce the size of the parallel, serial, and network buffers. • The printer automatically restarts when the setting is changed from the printer control panel. The menu selection is then updated.

Use	To
Job Buffering Off On Auto	Temporarily store print jobs in the printer hard disk before printing. Notes: • Off is the factory default setting. • On buffers jobs on the printer hard disk. • Auto buffers print jobs only if the printer is busy processing data from another input port. • Changing this setting from the printer control panel and then exiting the menus causes the printer to restart. The menu selection is then updated.
Mac Binary PS On Off Auto	Set the printer to process Macintosh binary PostScript print jobs. Notes: • Auto is the factory default setting. • On processes raw binary PostScript print jobs. • Off filters print jobs using the standard protocol.
ENA Address yyy.yyy.yyy.yyy	Set the network address information for an external print server. Note: This menu is available only when the printer is attached to an external print server through the USB port.
ENA Netmask yyy.yyy.yyy.yyy	Set the netmask information for an external print server. Note: This menu is available only when the printer is attached to an external print server through the USB port.
ENA Gateway yyy.yyy.yyy.yyy	Set the gateway information for an external print server. Note: This menu is available only when the printer is attached to an external print server through the USB port.

Parallel [x] menu

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

Use	To
PCL SmartSwitch On Off	Set the printer to automatically switch to PCL emulation when a print job received through a serial port requires it, regardless of the default printer language. Notes: • On is the factory default setting. • When set to Off, the printer does not examine incoming data. The printer uses PostScript emulation if PS SmartSwitch is set to On. It uses the default printer language specified in the Setup menu if PS SmartSwitch is set to Off.

Use	To
PS SmartSwitch On Off	Set the printer to automatically switch to PS emulation when a print job received through a serial port requires it, regardless of the default printer language. Notes: - On is the factory default setting. - When set to Off, the printer does not examine incoming data. The printer uses PCL emulation if PCL SmartSwitch is set to On. It uses the default printer language specified in the Setup menu if PCL SmartSwitch is set to Off.
NPA Mode On Off Auto	Set the printer to perform the special processing required for bidirectional communication following the conventions defined by the NPA protocol. Notes: - Auto is the factory default setting. - Changing this setting from the printer control panel and then exiting the menus causes the printer to restart. The menu selection is then updated.
Parallel Buffer Disabled Auto 3K to [maximum size allowed]	Set the size of the parallel input buffer. Notes: - Auto is the factory default setting. - Disabled turns off job buffering. Any print jobs already buffered on the printer hard disk are printed before normal processing resumes. - The parallel buffer size setting can be changed in 1-KB increments. - The maximum size allowed depends on the amount of memory in the printer, the size of the other link buffers, and whether Resource Save is set to On or Off. - To increase the maximum size range for the Parallel Buffer, disable or reduce the size of the USB, serial, and network buffers. - Changing this setting from the printer control panel and then exiting the menus causes the printer to restart. The menu selection is then updated.
Job Buffering Off On Auto	Temporarily store print jobs on the printer hard disk before printing. Notes: - Off is the factory default setting. - On buffers print jobs on the printer hard disk. - Auto buffers print jobs only if the printer is busy processing data from another input port. - Changing this setting from the printer control panel and then exiting the menus causes the printer to restart. The menu selection is then updated.
Advanced Status On Off	Enable bidirectional communication through the parallel port. Notes: - On is the factory default setting. - Off disables parallel port negotiation.

Use	To
Protocol Standard Fastbytes	Specify the parallel port protocol. Notes: - Fastbytes is the factory default setting. It provides compatibility with most existing parallel ports and is the recommended setting. - Standard tries to resolve parallel port communication problems.
Honor Init On Off	Determine if the printer honors printer hardware initialization requests from the computer. Notes: - Off is the factory default setting. - The computer requests initialization by activating the Init signal from the parallel port. Many personal computers activate the Init signal each time the computer is turned on.
Parallel Mode 2 On Off	Determine if the parallel port data is sampled on the leading or trailing edge of a strobe. Note: On is the factory default setting.
Mac Binary PS On Off Auto	Set the printer to process Macintosh binary PostScript print jobs. Notes: - Auto is the factory default setting. - Off filters print jobs using the standard protocol. - On processes raw binary PostScript print jobs.
ENA Address yyy.yyy.yyy.yyy	Set the network address information for an external print server. Note: This menu item is available only if the printer is attached to an external print server through the USB port.
ENA Netmask yyy.yyy.yyy.yyy	Set the netmask information for an external print server. Note: This menu item is available only if the printer is attached to an external print server through the USB port.
ENA Gateway yyy.yyy.yyy.yyy	Set the gateway information for an external print server. Note: This menu item is available only if the printer is attached to an external print server through the USB port.

Serial [x] menu

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

Use	To
PCL SmartSwitch On Off	Set the printer to automatically switch to PCL emulation when a print job received through a serial port requires it, regardless of the default printer language. Notes: - On is the factory default setting. - When set to Off, the printer does not examine incoming data. The printer uses PostScript emulation if PS SmartSwitch is set to On. It uses the default printer language specified in the Setup menu if PS SmartSwitch is set to Off.
PS SmartSwitch On Off	Set the printer to automatically switch to PS emulation when a print job received through a serial port requires it, regardless of the default printer language. Notes: - On is the factory default setting. - When set to Off, the printer does not examine incoming data. The printer uses PCL emulation if PCL SmartSwitch is set to On. It uses the default printer language specified in the Setup menu if PCL SmartSwitch is set to Off.
NPA Mode On Off Auto	Set the printer to perform the special processing required for bidirectional communication following the conventions defined by the NPA protocol. Notes: - Auto is the factory default setting. Auto sets the printer to examine data, determine the format, and then processes it appropriately. - When set to On, the printer performs NPA processing. If the data is not in NPA format, it is rejected as bad data. - When set to Off, the printer does not perform NPA processing. - Changing this setting from the printer control panel and then exiting the menus causes the printer to restart. The menu selection is then updated.
Serial Buffer Disabled Auto 3K to [maximum size allowed]	Set the size of the serial input buffer. Notes: - Auto is the factory default setting. - Disabled turns off job buffering. Any jobs already buffered on the disk are printed before normal processing is resumed. - The serial buffer size setting can be changed in 1-KB increments. - The maximum size allowed depends on the amount of memory in the printer, the size of the other link buffers, and whether Resource Save is set to On or Off. - To increase the maximum size range for the Serial Buffer, disable or reduce the size of the parallel, serial, and network buffers. - Changing this setting from the printer control panel and then exiting the menus causes the printer to restart. The menu selection is then updated.

Use	To
Job Buffering Off On Auto	Temporarily store print jobs on the printer hard disk before printing. Notes: - Off is the factory default setting. The printer does not buffer print jobs on the printer hard disk. - On buffers print jobs on the printer hard disk. - Auto buffers print jobs only if the printer is busy processing data from another input port. - Changing this setting from the printer control panel and then exiting the menus causes the printer to restart. The menu selection is then updated.
Protocol DTR DTR/DSR XON/XOFF XON/XOFF/DTR XONXOFF/DTRDSR	Select the hardware and software handshaking settings for the serial port. Notes: - DTR is the factory default setting. - DTR/DSR is a hardware handshaking setting. - XON/XOFF is a software handshaking setting. - XON/XOFF/DTR and XON/XOFF/DTR/DSR are combined hardware and software handshaking settings.
Robust XON On Off	Determine whether the printer communicates availability to the computer. Notes: - Off is the factory default setting. - This menu item applies only to the serial port if Serial Protocol is set to XON/XOFF.
Baud 1200 2400 4800 9600 19200 38400 57600 115200 138200 172800 230400 345600	Specify the rate at which data can be received through the serial port. Notes: 9600 is the factory default setting. 138200, 172800, 230400, and 345600 baud rates are only displayed in the Standard Serial menu. These settings do not appear in the Serial Option 1, Serial Option 2, or Serial Option 3 menus.
Data Bits 7 8	Specify the number of data bits sent in each transmission frame. Note: 8 is the factory default setting.
Parity Even Odd None Ignore	Set the parity for serial input and output data frames. Note: None is the factory default setting.

Use	To
Honor DSR On Off	Determine whether the printer uses the DSR Signal. Notes: - Off is the factory default setting. - DSR is a handshaking signal used by most serial cables. The serial port uses DSR to distinguish data sent by the computer from data created by electrical noise in the serial cable. The electrical noise can cause stray characters to print. Set this to On to prevent stray characters from printing.

SMTP Setup menu

Use	To
Primary SMTP Gateway	Specify SMTP server gateway and port information. Note: 25 is the default SMTP gateway port.
Primary SMTP Gateway Port	
Secondary SMTP Gateway	
Secondary SMTP Gateway Port	
SMTP Timeout 5–30	Specify the amount of time in seconds before the server stops trying to send an e-mail. Note: 30 is the factory default setting.
Reply Address	Specify a reply address of up to 128 characters in the e-mail sent by the printer.
Use SSL Disabled Negotiate Required	Set the printer to use SSL for increased security when connecting to the SMTP server. Notes: - Disabled is the factory default setting. - When the Negotiate setting is used, the SMTP server determines if SSL will be used.
SMTP Server Authentication No authentication required Login/Plain CRAM-MD5 Digest-MD5 NTLM Kerberos 5	Specify the type of user authentication required for printing privileges. Note: “No authentication required” is the factory default setting.

Use	To
Device-Initiated E-mail None Use Device SMTP Credentials	Specify what credentials will be used when communicating to the SMTP server. Some SMTP servers require credentials to send an e-mail. Notes: • None is the factory default setting for Device-Initiated E-mail and User-Initiated E-mail. • Device Userid and Device Password are used to log in to the SMTP server when Use Device SMTP Credentials is selected.
Device Userid	
Device Password	
Kerberos 5 Realm	
NTLM Domain	

Security menu

Miscellaneous Security Settings menu

Use	To
Login Restrictions Panel Login Timeout Remote Login Timeout	Limit the number and time frames of failed login attempts from the printer control panel before <i>all</i> users are locked out. Notes: • Panel Login Timeout specifies how long the printer remains idle on the printer control panel before automatically logging the user off. Select from 1 to 900 seconds. 30 seconds is the factory default setting. • Remote Login Timeout specifies how long a remote interface remains idle before automatically logging the user off. Select from 1 to 120 seconds. 10 minutes is the factory default setting.

Confidential Print menu

Use	To
Max Invalid PIN Off 2–10	Limit the number of times an invalid PIN can be entered. Notes: • This menu appears only when a formatted, non-defective printer hard disk is installed. • Once the limit is reached, the print jobs for that user name and PIN are deleted.
Confidential Job Expiration Off 1 hour 4 hours 24 hours 1 week	Limit the amount of time a confidential print job stays in the printer before it is deleted. Notes: • If the “Confidential Job Expiration” setting is changed while confidential print jobs reside in the printer RAM or printer hard disk, then the expiration time for those print jobs does not change to the new default value. • If the printer is turned off, then all confidential jobs held in the printer RAM are deleted.
Note: Off is the factory default setting.	

Use	To
Repeat Job Expiration Off 1 hour 4 hours 24 hours 1 week	Set a time limit on how long the printer stores print jobs.
Verify Job Expiration Off 1 hour 4 hours 24 hours 1 week	Set a time limit on how long the printer stores print jobs needing verification.
Reserve Job Expiration Off 1 hour 4 hours 24 hours 1 week	Set a time limit on how long the printer stores print jobs for printing at a later time.
Note: Off is the factory default setting.	

Disk Wiping menu

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

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

Use	To
Wiping Mode Auto	Specify the mode for disk wiping.
Automatic Method Single pass Multiple pass	Mark all disk space used by a previous print job. This method does not permit the file system to reuse this space until it has been cleared. Notes: • “Single pass” is the factory default setting. • Only automatic wiping enables users to activate disk wiping without having to turn the printer off for an extended amount of time. • Highly confidential information should be wiped using <i>only</i> the Multiple pass method.

Security Audit Log menu

Use	To
Export Log	Let an authorized user export the audit log. Notes: - To export the audit log from the printer control panel, a flash drive must be attached to the printer. - The audit log can be downloaded from the Embedded Web Server and saved on a computer.
Delete Log Yes No	Specify whether or not audit logs are deleted. Note: Yes is the factory default setting.
Configure Log Enable Audit Yes No Enable Remote Syslog No Yes Remote Syslog Facility 0–23 Severity of events to log 0–7	Specify how and whether or not audit logs are created. Notes: - Enable Audit determines if events are recorded in the secure audit log and remote syslog. No is the factory default setting. - Enable Remote Syslog determines if logs are sent to a remote server. No is the factory default setting. - Remote Syslog Facility determines the value used to send logs to the remote syslog server. 4 is the factory default setting. - If the security audit log is activated, then the severity value of each event is recorded. 4 is the factory default setting.

Set Date and Time menu

Use	To
Current Date and Time	Show the current date and time settings for the printer.
Manually Set Date and Time [input date/time]	Enter the date and time. Notes: - Manually setting the date and time sets Enable NTP to No. - The wizard lets you set the date and time in YYYY-MM-DD-HH:MM format.
Time Zone [list of time zones]	Select the time zone. Note: GMT is the factory default setting.
Automatically observe DST On Off	Set the printer to use the applicable daylight saving time (DST) start and end times associated with the printer Time Zone setting. Note: On is the factory default setting.

Use	To
Enable NTP On Off	Enable Network Time Protocol, which synchronizes the clocks of devices on a network. Notes: - On is the factory default setting. - The setting is turned off if you manually set the date and time.

Settings menu

General Settings

General Settings menu

Use	To
Display Language English Francais Deutsch Italiano Espanol Dansk Norsk Nederlands Svenska Portuguese Suomi Russian Polski Greek Magyar Turkce Cesky Simplified Chinese Traditional Chinese Korean Japanese	Set the language of the text that appears on the printer display. Note: Not all languages are available for all printer models.
Show Supply Estimates Show estimates Do not show estimates	Get an estimate on the status of supplies. Notes: “Show estimates” shows the estimated supply status in pages on the printer control panel, Embedded Web Server, menu settings, and the device statistics reports. “Do not show estimates” hides the estimated supply status in any location.

Use	To
Eco-Mode Off Energy Energy/Paper Paper	Minimize the use of energy, paper, or specialty media. Notes: - Off is the factory default setting. Off resets the printer to its factory default settings. - Energy minimizes the power used by the printer. Performance may be affected, but print quality is not. - Energy/Paper minimizes the use of power and of paper and specialty media. - Paper minimizes the amount of paper and specialty media needed for a print job. Performance may be affected, but print quality is not.
Quiet Mode Off On	Reduce the amount of noise produced by the printer. Notes: - Off is the factory default setting. This setting supports the performance specifications for your printer. - On configures the printer to produce as little noise as possible. This setting is best suited for printing text and line art. - Selecting Photo from the printer driver may disable Quiet mode and provide better print quality and full-speed printing.
Run Initial setup Yes No	Instruct the printer to run the setup wizard. Notes: - Yes is the factory default setting. - After completing the setup wizard by selecting Done at the Country select screen, the default becomes No.
Paper Sizes US Metric	Specify the unit of measurement for paper sizes. Notes: - US is the factory default setting. - The initial setting is determined by your country or region selection in the initial setup wizard.
Home screen customization Change Language Search Held Jobs Held Jobs USB Drive Bookmarks Jobs by user	Change the icons and buttons that appear on the printer control panel. For each icon or button, select from the following options: Display Do not display Note: “Do not display” is the factory default setting.

Use	To
Home screen customization Eco-Settings Showroom Change Background	Change the icons and buttons that appear on the printer control panel. For each icon or button, select from the following options: Display Do not display Note: “Do not display” is the factory default setting.
Output Lighting Normal/Standby Mode Off Dim Bright	Set the amount of light from the bin. Notes: • If Eco-Mode is set to Energy or Energy/Paper, then the factory default setting is Dim. • If Eco-Mode is set to Off or set to Paper, then the factory default setting is Bright. • This menu appears only when an indicator light is installed on the bin or when an optional bin with an indicator light is added.
Alarms Alarm Control Cartridge Alarm Staple Alarm Hole Punch Alarm	Set an alarm to sound when the printer requires user intervention. For each alarm type, select from the following options: Off Single Continuous Notes: • Off is the factory default setting for Alarm Control, Staple Alarm, and Hole Punch Alarm. Off means no alarm will sound. • Single is the factory default setting for Cartridge Alarm, Staple Alarm, and Hole Punch Alarm. Single sounds three quick beeps. • Continuous repeats three beeps every 10 seconds.
Timeouts Sleep Mode Disabled 1–180	Set the amount of time the printer waits after a job is printed before it goes into a reduced power state. Notes: • 30 is the factory default setting. • Disabled appears only when Energy Conserve is set to Off. • Lower settings conserve more energy, but may require longer warm-up times. • Select a high setting if the printer is in constant use. Under most circumstances, this keeps the printer ready to print with minimum warm-up time.

Use	To
Timeouts Hibernate Timeout Disabled 1 hour 2 hours 3 hours 6 hours 1 day 2 days 3 days 1 week 2 weeks 1 month	Set the printer to operate at a low power state. Notes: • When the Hibernate Timeout timer expires, the printer uses Ethernet connection to check the value of “Hibernate Timeout on Connection.” • If “Hibernate Timeout on Connection” is set to “Do Not Hibernate,” then the printer never automatically hibernates. • If “Hibernate Timeout on Connection” is set to “Hibernate,” then the printer follows the Hibernate Timeout value, except when it is set to Disabled. • Disabled is the factory default setting except for European Union countries, Canada, and Switzerland. • “3 days” is the factory default setting for European Union countries, Canada, and Switzerland.
Timeouts Screen Timeout 15–300 sec	Set the amount of time in seconds the printer waits before returning the display to a ready state. Note: “30 sec” is the factory default setting.
Timeouts Print Timeout Disabled 1–255 sec	Set the amount of time in seconds the printer waits to receive an end-of-job message before canceling the remainder of the print job. Notes: • “90 sec” is the factory default setting. • When the timer expires, any partially printed page still in the printer is printed, and then the printer checks to see if any new print jobs are waiting. • Print Timeout is available only when using PCL emulation. This setting has no effect on PostScript emulation print jobs.
Timeouts Wait Timeout Disabled 15–65535 sec	Set the amount of time in seconds the printer waits for additional data before canceling a print job. Notes: • “40 sec” is the factory default setting. • Wait Timeout is available only when the printer is using PostScript emulation. This setting has no effect on PCL emulation print jobs.
Timeouts Job Hold Timeout 5–255 sec	Set the amount of time the printer waits for user intervention before it holds jobs that require unavailable resources and continues to print other jobs in the print queue. Notes: • “30 sec” is the factory default setting. • This menu appears only when a printer hard disk is installed.

Use	To
Error Recovery Auto Reboot Reboot when idle Reboot always Reboot never Max Auto Reboots 1–20	Set the printer to restart when an error is encountered. Notes: • “Reboot always” is the factory default setting for Auto Reboot. • 5 is the factory default setting for Max Auto Reboots. • If the printer performs the same number of automatic reboots that is set in the printer within a certain amount of time, then the printer shows the applicable error instead of rebooting.
Error Recovery Max Auto Reboots 1–20	Set the number of automatic reboots that the printer can perform. Notes: • 5 is the factory default setting. • If the printer performs a number of automatic reboots that is the same as the menu setting within a certain amount of time, then the printer displays the applicable error instead of rebooting.
Print Recovery Auto Continue Disabled 5–255	Let the printer automatically continue printing from certain offline situations when these are not resolved within the specified time period. Note: Disabled is the factory default setting.
Print Recovery Jam Recovery On Off Auto	Specify whether the printer reprints jammed pages. Notes: • Auto is the factory default setting. The printer reprints jammed pages unless the memory required to hold the pages is needed for other printer tasks. • On sets the printer to always reprint jammed pages. • Off sets the printer to never reprint jammed pages.
Print Recovery Jam Assist On Off	Set the printer to check for jammed paper automatically. Note: On is the factory default setting.
Print Recovery Page Protect Off On	Let the printer successfully print a page that may not have printed otherwise. Notes: • Off is the factory default setting. Off prints a partial page when there is not enough memory to print the whole page. • On sets the printer to process the whole page so that the entire page prints.

Use	To
Hibernate Timeout on Connection Do Not Hibernate Hibernate	To set the printer to follow the setting of “Hibernate Timeout” even when an active Ethernet connection exists. Notes: • If “Hibernate Timeout on Connection” is set to “Do Not Hibernate,” then the printer never automatically hibernates. • If “Hibernate Timeout on Connection” is set to “Hibernate,” then the printer follows the value of the “Hibernate Timeout” setting, except when it is set to Disabled. • “Do Not Hibernate” is the factory default setting.
Press Sleep Button Do nothing Sleep	Determine how the printer, while in idle state, reacts to a short press of the Sleep button. Note: Sleep is the factory default setting.
Press and Hold Sleep Button Do nothing Sleep	Determine how the printer, while in idle state, reacts when you press and hold the Sleep button. Note: Sleep is the factory default setting.
Factory Defaults Do Not Restore Restore Now	Restore the printer settings to the factory default settings. Notes: • Do Not Restore is the factory default setting. Do Not Restore keeps the user-defined settings. • Restore Now returns all printer settings to the factory default settings except Network/Ports menu settings. All downloads stored in the RAM are deleted. Downloads stored in the flash memory or in the printer hard disk are not affected.
Export Configuration Package Export	Export the printer configuration package to a flash drive. Note: The configuration package cannot be exported unless a flash drive is attached to the printer.

Flash Drive Menu

Print Settings menu

Use	To
Copies 1–999	Specify a default number of copies for each print job. Note: 1 is the factory default setting.
Paper Source Tray [x] Multipurpose Feeder Manual Paper Manual Envelope	Set a default paper source for all print jobs. Note: Tray 1 is the factory default setting.

Use	To
Collate (1,1,1) (2,2,2) (1,2,3) (1,2,3)	Stack the pages of a print job in sequence when printing multiple copies. Note: (1,2,3) (1,2,3) is the factory default setting.
Sides (Duplex) 1 sided 2 sided	Specify whether prints are on one side or on both sides of the page. Note: 1 sided is the factory default setting.
Staple Off On	Specify whether prints are stapled. Notes: - Off is the factory default setting. - This menu appears only when a supported staple finisher is installed.
Hole Punch Off On	Specify whether prints have holes for binding. Notes: - Off is the factory default setting. - This menu appears only when a supported staple, hole punch finisher is installed.
Hole Punch Mode 2 holes 3 holes 4 holes	Specify the number of holes to be made on the prints. Notes: 3 holes is the U.S. factory default setting. 4 holes is the international factory default setting. - This menu appears only when a supported staple, hole punch finisher is installed.
Duplex Binding Long Edge Short Edge	Define the way duplexed pages are bound and printed. Notes: - Long Edge assumes binding along the long edge of the page (left edge for portrait and top edge for landscape). Long Edge is the factory default setting. - Short Edge assumes binding along the short edge of the page (top edge for portrait and left edge for landscape).
Paper Saver Orientation Auto Landscape Portrait	Specify the orientation of a multiple-page document. Notes: - Auto is the factory default setting. - This setting affects jobs if the value of the Paper Saver setting in the same menu is not set to Off.

Use	To
Paper Saver Off 2-Up 3-Up 4-Up 6-Up 9-Up 12-Up 16-Up	Specify that multiple-page images be printed on one side of a paper. Notes: - Off is the factory default setting. - The number selected is the number of page images that print per side.
Paper Saver Border None Solid	Print a border on each page image when using N-Up (pages per side). Notes: - None is the factory default setting. - This setting affects jobs if the value of the Paper Saver setting in the same menu is not set to Off.
Paper Saver Ordering Horizontal Reverse Horizontal Reverse Vertical Vertical	Specify the positioning of multiple-page images when using N-Up (pages per side). Notes: - Horizontal is the factory default setting. - Positioning depends on the number of page images and whether they are in portrait or landscape orientation. - This setting affects jobs if the value of the Paper Saver setting in the same menu is not set to Off.
Separator Sheets Off Between Copies Between Jobs Between Pages	Specify if blank separator sheets are inserted. Notes: - Off is the factory default setting. - If Collate is set to (1,2,3) (1,2,3), then Between Copies inserts a blank sheet between each copy job. Otherwise, a blank page is inserted each set of copied pages - Between Jobs inserts a blank sheet between print jobs. - Between Pages inserts a blank sheet between each page of the print job. This setting is useful when printing on transparencies or when inserting blank pages in a document for notes.
Separator Sheet Source Tray [x] Manual Feeder Multipurpose Feeder	Specify the paper source for the separator sheet. Note: Tray 1 is the factory default setting.
Blank Pages Do Not Print Print	Specify if blank pages are inserted in a print job. Note: Do Not Print is the factory default setting.

Print Settings

Setup menu

Use	To
Printer Language PCL Emulation PS Emulation	Set the default printer language. Notes: • PCL Emulation is the factory default setting. • PostScript emulation uses a PostScript interpreter for processing print jobs. • PCL Emulation uses a PCL interpreter for processing print jobs. • Setting a printer language default does not prevent a software program from sending print jobs that use another printer language.
Job Waiting On Off	Specify that print jobs be removed from the print queue when they require unavailable printer options or custom settings. They are stored in a separate print queue, so other jobs print normally. When the missing information or options, or both are obtained, the stored jobs print. Notes: • Off is the factory default setting. • This menu appears only when a formatted, working printer hard disk is installed. This requirement ensures that stored jobs are not deleted if the printer loses power.
Print Area Normal Fit to Page Whole Page	Set the logical and physical printable area. Notes: • Normal is the factory default setting. When attempting to print data in the non-printable area defined by the Normal setting, the printer clips the image at the boundary. • Fit to Page fits the page content into the selected paper size. • Whole Page allows the image to be moved into the non-printable area defined by the Normal setting, but the printer clips the image at the Normal setting boundary. This setting affects only pages printed using a PCL 5e interpreter and has no effect on pages printed using the PCL XL or PostScript interpreter.

Use	To
Download Target RAM Flash Disk	Set the storage location for downloads. Notes: • RAM is the factory default setting. Storing downloads in the RAM is temporary. • Storing downloads in a flash memory or in a printer hard disk places them in permanent storage. Downloads remain in the flash memory or printer hard disk even when the printer is turned off. • This menu item appears only if an optional flash memory or a formatted, working printer hard disk is installed.
Resource Save On Off	Specify how the printer handles temporary downloads, such as fonts and macros stored in the RAM, when the printer receives a print job that requires more than the available memory. Notes: • Off is the factory default setting. This sets the printer to retain downloads only until memory is needed. Downloads are deleted in order to process print jobs. • On sets the printer to retain downloads during language changes and printer resets. If the printer runs out of memory, then Memory Full [38] appears on the printer display, but downloads are not deleted.
Print All Order Alphabetical Oldest First Newest First	Specify the order in which held and confidential jobs are printed when Print All is selected. Note: Alphabetical is the factory default setting.

Finishing menu

Use	To
Sides (Duplex) 1 sided 2 sided	Specify whether to print on one side or both sides of the page. Notes: • 1 sided is the factory default setting. • You can set two-sided printing from the printer software. For Windows users: Click File > Print, and then click Properties, Preferences, Options, or Setup. For Macintosh users: Choose File > Print, and then adjust the settings from the Print dialog and pop-up menus.

Use	To
Duplex Binding Long Edge Short Edge	Define the way duplexed pages are bound and printed. Notes: - Long Edge is the factory default setting. Long Edge assumes binding along the long edge of the page (left edge for portrait and top edge for landscape). - Short Edge assumes binding along the short edge of the page (top edge for portrait and left edge for landscape).
Copies 1–999	Specify the default number of copies for each print job. Note: 1 is the factory default setting.
Blank Pages Do Not Print Print	Specify whether blank pages are inserted in a print job. Note: Do Not Print is the factory default setting.
Collate (1,1,1) (2,2,2) (1,2,3) (1,2,3)	Stack the pages of a print job in sequence when printing multiple copies. Note: (1,1,1) (2,2,2) is the factory default setting.
Separator Sheets Off Between Copies Between Jobs Between Pages	Specify whether blank separator sheets are inserted. Notes: - Off is the factory default setting. - If Collate is set to (1,2,3) (1,2,3), then Between Copies inserts a blank sheet between each copy job. Otherwise, a blank page is inserted between each set of printed pages. - Between Jobs inserts a blank sheet between print jobs. - Between Pages inserts a blank sheet between each page of a print job. This setting is useful when printing transparencies or when inserting blank pages in a document.
Separator Source Tray [x] Multipurpose Feeder	Specify the paper source for the separator sheet. Notes: - Tray 1 (standard tray) is the factory default setting. - From the Paper menu, set Configure MP to Cassette for Multipurpose Feeder to appear as a menu setting.
Paper Saver Off 2-Up 3-Up 4-Up 6-Up 9-Up 12-Up 16-Up	Print multiple-page images on one side of a paper. Notes: - Off is the factory default setting. - The number selected is the number of page images that print per side.

Use	To
Paper Saver Ordering Horizontal Reverse Horizontal Reverse Vertical Vertical	Specify the positioning of multiple-page images when using Paper Saver. Notes: - Horizontal is the factory default setting. - Positioning depends on the number of page images and whether they are in portrait or landscape orientation.
Paper Saver Orientation Auto Landscape Portrait	Specify the orientation of a multiple-page document. Note: Auto is the factory default setting. The printer chooses between portrait and landscape.
Paper Saver Border None Solid	Print a border when using Paper Saver. Note: None is the factory default setting.
Staple Job Off On	Specify whether printed output is stapled. Notes: - Off is the factory default setting. - This menu appears only when a supported staple finisher is installed.
Run Stapler Test	Print a report that confirms that the staple finisher is functioning properly. Note: This menu appears only when a supported staple finisher is installed.
Hole Punch On Off	Specify whether prints have holes for binding. Notes: - Off is the factory default setting. - This menu appears only when a supported staple, hole punch finisher is installed.
Hole Punch Mode 2 holes 3 holes 4 holes	Specify the number of holes to be made on the prints. Notes: 3 holes is the U.S. factory default setting. 4 holes is the international factory default setting. - This menu appears only when a supported staple, hole punch finisher is installed.
Offset Pages None Between Copies Between Jobs	Offset pages at certain instances. Notes: - None is the factory default setting. - If Collate is set to (1,2,3) (1,2,3), then Between Copies inserts a blank sheet between each copy job. Otherwise, a blank page is inserted between each set of copied pages. - Between Jobs sets the same offset position for the entire print job regardless of the number of copies printed. - This menu appears only when a supported staple finisher is installed.

Quality menu

Use	To
Print Resolution 300 dpi 600 dpi 1200 dpi 1200 Image Q 2400 Image Q	Specify the printed output resolution in dots per inch. Note: 600 dpi is the factory default setting.
Pixel Boost Off Fonts Horizontally Vertically Both directions	Enable more pixels to print in clusters for clarity, in order to enhance images horizontally or vertically, or to enhance fonts. Note: Off is the factory default setting.
Toner Darkness 1–10	Lighten or darken the printed output. Notes: 8 is the factory default setting. - Selecting a smaller number can help conserve toner.
Enhance Fine Lines On Off	Enable a print mode preferable for files such as architectural drawings, maps, electrical circuit diagrams, and flow charts. Notes: - Off is the factory default setting. - To set this option using the Embedded Web Server, type the network printer IP address in the Web browser address field.
Gray Correction Auto Off	Automatically adjust the contrast enhancement applied to images. Note: Auto is the factory default setting.
Brightness -6 to 6	Adjust the printed output either by lightening or darkening it. You can conserve toner by lightening the output. Note: 0 is the factory default setting.
Contrast 0–5	Adjust the contrast of printed objects. Note: 0 is the factory default setting.

Job Accounting menu

Note: This menu item appears only when a printer hard disk is installed. Make sure that the hard disk is not read/write- or write-protected.

Use	To
Job Accounting Log Off On	Set if the printer creates a log of the print jobs it receives. Note: Off is the factory default setting.

Use	To
Job Accounting Utilities	Print and delete log files or export them to a flash drive.
Accounting Log Frequency Daily Weekly Monthly	Set how often a log file is created. Note: Monthly is the factory default setting.
Log Action at End of Frequency None E-mail Current Log E-mail & Delete Current Log Post Current Log Post & Delete Current Log	Set how the printer responds when the frequency threshold expires. Note: None is the factory default setting.
Log Near Full Level Off 1–99	Specify the maximum size of the log file before the printer executes the Log Action at Near Full. Note: 5 is the factory default setting.
Log Action at Near Full None E-mail Current Log E-mail & Delete Current Log E-mail & Delete Oldest Log Post Current Log Post & Delete Current Log Post & Delete Oldest Log Delete Current Log Delete Oldest Log Delete All Logs Delete All But Current	Set how the printer responds when the hard disk is nearly full. Notes: • None is the factory default setting. • The value defined in Log Near Full Level determines when this action is triggered.
Log Action at Full None E-mail & Delete Current Log E-mail & Delete Oldest Log Post & Delete Current Log Post & Delete Oldest Log Delete Current Log Delete Oldest Log Delete All Logs Delete All But Current	Set how the printer responds when disk usage reaches the maximum limit (100MB). Note: None is the factory default setting.
URL to Post Logs	Set where the printer posts job accounting logs.
E-mail to Send Logs	Specify the e-mail address to which the device sends job accounting logs.
Log File Prefix	Specify the prefix you want for the log file name. Note: The current host name defined in the TCP/IP menu is used as the default log file prefix.

Utilities menu

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

XPS menu

Use	To
Print Error Pages Off On	Print a page containing information on errors, including XML markup errors. Note: Off is the factory default setting.

PDF menu

Use	To
Scale to Fit Yes No	Scale page content to fit the selected paper size. Note: No is the factory default setting.
Annotations Do Not Print Print	Print annotations in a PDF. Note: Do Not Print is the factory default setting.

PostScript menu

Use	To
Print PS Error On Off	Print a page containing the PostScript error. Note: Off is the factory default setting.
Lock PS Startup Mode On Off	Disable the SysStart file. Note: Off is the factory default setting.
Font Priority Resident Flash/Disk	Establish the font search order. Notes: • Resident is the factory default setting. • This menu item is available only when a formatted flash memory option card or printer hard disk is installed and operating properly. • Make sure the flash memory option or printer hard disk is not read/write-, write-, or password-protected. • Job Buffer Size must not be set to 100%.

PCL Emul menu

Use	To
Font Source Resident Disk Download Flash All	Specify the set of fonts used by the Font Name menu. Notes: • “Resident” is the factory default setting. Resident shows the factory default set of fonts downloaded in the RAM. • “Flash” and “Disk” settings show all fonts resident in that option. • The flash option must be properly formatted and cannot be read/write-, write-, or password-protected. • “Download” shows all the fonts downloaded in the RAM. • “All” shows all fonts available to any option.

Use	To
Font Name Courier 10	Identify a specific font and the option where it is stored. Note: Courier 10 is the factory default setting. Courier 10 shows the font name, font ID, and the storage location in the printer. The font source abbreviation is R for Resident, F for Flash, K for Disk, and D for Download.
Symbol Set 10U PC-8 12U PC-850	Specify the symbol set for each font name. Notes: 10U PC-8 is the US factory default setting. 12U PC-850 is the international factory default setting. - A symbol set is a set of alphabetic and numeric characters, punctuation, and special symbols. Symbol sets support the different languages or specific programs such as math symbols for scientific text. Only the supported symbol sets are shown.
PCL Emulation Settings Point Size 1.00–1008.00	Change the point size for scalable typographic fonts. Notes: 12 is the factory default setting. - Point size refers to the height of the characters in the font. One point equals approximately 0.014 inch. - Point sizes can be increased or decreased in 0.25-point increments.
PCL Emulation Settings Pitch 0.08–100	Specify the font pitch for scalable monospaced fonts. Notes: 10 is the factory default setting. - Pitch refers to the number of fixed-space characters per inch (cpi). - Pitch can be increased or decreased in 0.01-cpi increments. - For nonscalable monospaced fonts, the pitch appears on the display but it cannot be changed.
PCL Emulation Settings Orientation Portrait Landscape	Specify the orientation of text and graphics on the page. Notes: - Portrait is the factory default setting. Portrait prints text and graphics parallel to the short edge of the page. - Landscape prints text and graphics parallel to the long edge of the page.
PCL Emulation Settings Lines per Page 1–255	Specify the number of lines that print on each page. Notes: 60 is the US factory default setting. 64 is the international default setting. - The printer sets the amount of space between each line based on the Lines per Page, Paper Size, and Orientation settings. Select the Paper Size and Orientation you want before setting Lines per Page.

Use	To
PCL Emulation Settings A4 Width 198 mm 203 mm	Set the printer to print on A4-size paper. Notes: • “198 mm” is the factory default setting. • The 203-mm setting sets the width of the page to allow printing of eighty 10-pitch characters.
PCL Emulation Settings Auto CR after LF On Off	Specify whether the printer automatically performs a carriage return (CR) after a line feed (LF) control command. Note: Off is the factory default setting.
PCL Emulation Settings Auto LF after CR On Off	Specify whether the printer automatically performs a line feed (LF) after a carriage return (CR) control command. Note: Off is the factory default setting.
Tray Renumber Assign MP Feeder Off None 0–199 Assign Tray [x] Off None 0–199 Assign Manual Paper Off None 0–199 Assign Manual Env Off None 0–199	Configure the printer to work with printer software or programs that use different source assignments for trays and feeders. Notes: • “Off” is the factory default setting. • “None” ignores the Select Paper Feed command. This option appears only when it is selected by the PCL 5 interpreter. • “0–199” allows a custom setting to be assigned.
Tray Renumber View Factory Defaults MPF Default = 8 T1 Default = 1 T1 Default = 4 T1 Default = 5 T1 Default = 20 T1 Default = 21 Env Default = 6 MPaper Default = 2 MEnv Default = 3	Display the factory default setting assigned to each tray or feeder.

Use	To
Tray Renumber Restore Defaults Yes No	Restore all tray and feeder assignments to the factory default settings.

PPDS menu

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

Menu item	Description
Tray 1 Renumber Off Tray 2	Configures the printer to work with printer software or programs that use different source assignments for trays, drawers, and feeders Notes: • Off is the factory default setting. • Tray 2 is displayed only when it is installed.
Auto CR after LF On Off	Specifies whether the printer automatically performs a carriage return (CR) after a line feed (LF) control command Notes: • Off is the factory default setting. • Settings are duplicated in the PCL Emulation menu.
Auto LF after CR On Off	Specifies whether the printer automatically performs a line feed (LF) after a carriage return (CR) control command Notes: • Off is the factory default setting. • Settings are duplicated in the PCL Emulation menu.

HTML menu

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

Use		To
Font Size 1–255 pt		Set the default font size for HTML documents. Notes: • 12 pt is the factory default setting. • Font size can be increased in 1-point increments.
Scale 1–400%		Scale the default font for HTML documents. Notes: • 100% is the factory default setting. • Scaling can be increased in 1% increments.
Orientation Portrait Landscape		Set the page orientation for HTML documents. Note: Portrait is the factory default setting.
Margin Size 8–255 mm		Set the page margin for HTML documents. Notes: • 19 mm is the factory default setting. • Margin size can be increased in 1-mm increments.

Use	To
Backgrounds Do Not Print Print	Specify whether to print backgrounds on HTML documents. Note: Print is the factory default setting.

Image menu

Use	To
Auto Fit On Off	Select the optimal paper size, scaling, and orientation. Note: On is the factory default setting. It overrides scaling and orientation settings for some images.
Invert On Off	Invert bitonal monochrome images. Notes: - Off is the factory default setting. - This setting does not apply to GIF or JPEG images.
Scaling Anchor Top Left Best Fit Anchor Center Fit Height/Width Fit Height Fit Width	Scale the image to fit the selected paper size. Notes: - Best Fit is the factory default setting. - When Auto Fit is set to On, Scaling is automatically set to Best Fit.
Orientation Portrait Landscape Reverse Portrait Reverse Landscape	Set the image orientation. Note: Portrait is the factory default setting.

Help menu

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

English, French, German, and Spanish translations are stored in the printer.

Use	To
Print All Guides	Print all the guides.
Print Quality	Print information about solving print quality issues.
Printing Guide	Print information about loading paper and other specialty media.
Media Guide	Print a list of the paper sizes supported in trays and feeders.
Print Defects Guide	Print information about resolving print defects.
Menu Map	Print a list of the printer control panel menus and settings.

Use	To
Information Guide	Print a guide in locating additional information.
Connection Guide	Print information about connecting the printer locally (USB) or to a network.
Moving Guide	Print instructions for safely moving the printer.

Saving money and the environment

Saving paper and toner

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

For more information on how you can quickly save paper and energy using one printer setting, see [“Using Eco-Mode” on page 135](#).

Using recycled paper

As an environmentally conscious company, we support the use of recycled office paper produced specifically for use in laser printers. For more information on recycled papers that work well with your printer, see [“Using recycled paper and other office papers” on page 69](#).

Conserving supplies

Use both sides of the paper

If your printer model supports two-sided printing, then you can control whether print appears on one or two sides of the paper.

Notes:

- Two-sided printing is the default setting in the print driver.
- For a complete list of supported products and countries, go to www.dell.com/support.

Place multiple pages on one sheet of paper

You can print up to 16 consecutive pages of a multiple-page document onto one side of a single sheet of paper by setting multiple page printing (N-Up) for the print job.

Check your first draft for accuracy

Before printing or making multiple copies of a document:

- Use the preview feature to see how the document looks like before you print it.
- Print one copy of the document to check its content and format for accuracy.

Avoid paper jams

Correctly set the paper type and size to avoid paper jams. For more information, see [“Avoiding jams” on page 153](#).

Saving energy

Using Eco-Mode

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

Notes:

- View the printer IP address in the TCP/IP section in the Network/Ports menu. 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 > General Settings > Eco-Mode**.

3 Select a setting.

Use	To
Off	Use the factory default settings for all settings associated with Eco-Mode. Notes: • Settings that were changed when other modes were selected are reset to the factory default settings. • Off supports the performance specifications of the printer.
Energy	Reduce energy use, especially when the printer is idle. Notes: • Printer engine motors do not start until a document is ready to print. You may notice a short delay before the first page is printed. • The printer enters Sleep mode after one minute of inactivity. • The printer display is turned off when the printer is in Sleep mode. • Lights on the staple finisher and other optional finishers are turned off when the printer is in Sleep mode.
Energy/Paper	Use all the settings associated with Energy and Paper modes.
Plain Paper	Enable the automatic two-sided (duplex) printing feature.

4 Click **Submit**.

Reducing printer noise

Enable Quiet mode to reduce printer noise.

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 > General Settings > Quiet Mode**.

3 Select a setting.

Use	To
On	Reduce printer noise. Notes: • Print jobs process at a reduced speed. • Printer engine motors do not start until a document is ready to print. There is a short delay before the first page is printed. • The alarm control and cartridge alarm sounds are turned off. • The printer ignores the Advance Start command.
Off	Use factory default settings. Note: This setting supports the performance specifications of the printer.

4 Click **Submit**.

Adjusting Sleep mode

1 From the home screen, navigate to:



> **Settings** > **General Settings** > **Timeouts** > **Sleep Mode**

2 In the Sleep Mode field, select the number of minutes the printer is idle before it enters Sleep mode.

3 Apply the changes.

Using Hibernate mode

Hibernate is an ultra-low-power saving mode.

Notes:

- Three days is the default amount of time before the printer enters Hibernate mode.
- Make sure to wake the printer from Hibernate mode before sending a print job. A hard reset or a long press of the Sleep button wakes the printer from Hibernate mode.
- If the printer is in Hibernate mode, then the Embedded Web Server is disabled.

1 From the home screen, navigate to:



> **Settings** > **General Settings**

2 Touch **Press Sleep Button** or **Press and Hold Sleep Button**.

3 Touch **Hibernate** > .

Adjusting the brightness of the printer display

To save energy, or if you have trouble reading the display, adjust its brightness settings.

Using the Embedded Web Server

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

Notes:

- View the printer IP address in the TCP/IP section in the Network/Ports menu. 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 > General Settings**.
- 3 In the Screen Brightness field, enter the brightness percentage you want for the display.
- 4 Click **Submit**.

Recycling

Recycling Dell products

To return Dell products for recycling:

- 1 Visit our Web site at www.dell.com/recycle.
- 2 Select your country or region.
- 3 Follow the instructions on the computer screen.

Securing the printer

Using the security lock feature

The printer is equipped with a security lock feature. When a lock compatible with most laptop computers is attached, the printer is locked. When locked, the controller board shield and the controller board cannot be removed. Attach a security lock to the printer in the location shown.



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, bookmark settings, and embedded solutions.
Hard disk memory	Some printers have a hard disk drive installed. The printer hard disk is designed for device-specific functionality. This lets the device 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 is completely erased is to physically destroy each hard disk where data is stored.

Erasing volatile memory

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

Finding printer security information

In high-security environments, you may need to take additional steps to make sure that confidential data stored in the printer cannot be accessed by unauthorized persons. For more information, check the *“Embedded Web Server — Security” Administrator’s Guide* from your printer CD or from our Web site, or contact the place where you purchased the printer.

Maintaining the printer

Cleaning the printer

Note: You may need to perform this task after every few months.

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

- 1 Make sure that the printer is turned off and unplugged from the electrical outlet.

 **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.

- 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 Dampen a clean, lint-free cloth with water, and use it to wipe the outside of the printer.

Warning—Potential Damage: Do not use household cleaners or detergents to prevent damage to the exterior of the printer.

- 5 Make sure all areas of the printer are dry before sending a new print job.

Emptying the hole punch box

- 1 Pull out the hole punch box.



- 2 Empty the container.



- 3 Insert the emptied hole punch box back into the finisher until it *clicks* into place.



Checking the status of parts and supplies on the printer control panel

From the home screen, navigate to:

Status/Supplies > View Supplies

Estimated number of remaining pages

The estimated number of remaining pages is based on the recent printing history of the printer. Its accuracy may vary significantly and is dependent on many factors, such as actual document content, print quality settings, and other printer settings.

The accuracy of the estimated number of remaining pages may decrease when the actual printing consumption is different from the historical printing consumption. Consider the variable level of accuracy before purchasing or replacing supplies based on the estimate. Until an adequate print history is obtained on the printer, initial estimates assume future supplies consumption based on the International Organization for Standardization* test methods and page content.

* Average continuous black declared cartridge yield in accordance with ISO/IEC 19752.

Ordering supplies

Ordering supplies using Printer Home

- 1 Use the Search command on the Start menu to locate Dell Printer Home.
- 2 Open the application, and then click **Maintenance > Order supplies**.

Storing supplies

Choose a cool, clean storage area for the printer supplies. Store supplies right side up in their original packing until you are ready to use them.

Do not expose supplies to:

- Direct sunlight
- Temperatures above 35°C (95°F)
- High humidity above 80%
- Salty air
- Corrosive gases
- Heavy dust

Replacing supplies

Replacing the toner cartridge

- 1 Lift the front cover, and then pull down the multipurpose feeder door.



- 2 Pull the cartridge out of the printer using the handle.



- 3 Unpack the new toner cartridge, then remove the packing material, and then shake the cartridge to redistribute the toner.



- 4 Insert the toner cartridge into the printer by aligning the side rails of the cartridge with the arrows on the side rails inside the printer.

Note: Make sure the cartridge is fully pushed in.



Warning—Potential Damage: When replacing a toner cartridge, do not leave the imaging unit exposed to direct light for an extended period of time. Extended exposure to light may cause print quality problems.

- 5 Close the multipurpose feeder door and the front cover.



Replacing the imaging unit

- 1 Lift the front cover, and then pull down the multipurpose feeder door.



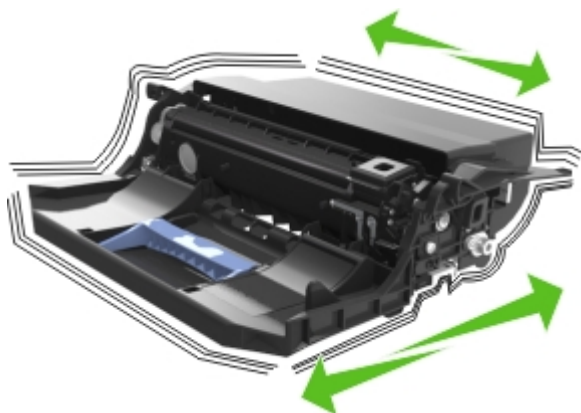
- 2 Pull out the toner cartridge from the printer using the handle.



- 3 Lift the blue handle, and then pull out the imaging unit from the printer.



- 4 Unpack the new imaging unit, and then shake it.



- 5 Remove all packing material from the imaging unit.

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



- 6 Insert the imaging unit into the printer by aligning the arrows on the side rails of the imaging unit with the arrows on the side rails inside the printer.



- 7** Insert the toner cartridge into the printer by aligning the side rails of the cartridge with the arrows on the side rails inside the printer.



- 8** Close the multipurpose feeder door and the front cover.

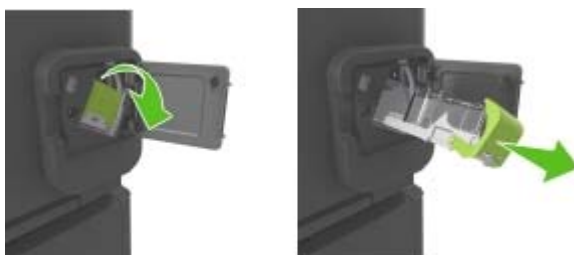


Replacing a staple cartridge

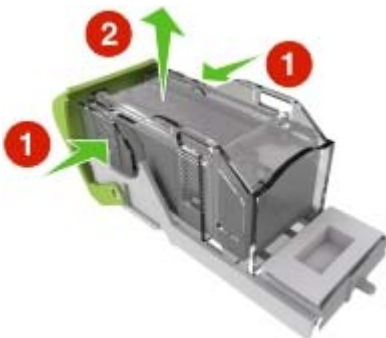
- 1 Open the stapler door.



- 2 Pull down the latch of the staple cartridge holder, and then pull the holder out of the finisher.



- 3 Squeeze both sides of the empty staple case with your fingers, and then remove the staple case from the cartridge.



- 4 Insert the front side of the new staple case into the staple cartridge, and then push the rear side into the cartridge.



- 5 Push the staple cartridge into the finisher until it *clicks* into place.
- 6 Close the stapler door.

Moving the printer

Before moving the printer

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

- Turn off the printer, and then unplug the power cord from the electrical outlet.
- Disconnect all cords and cables from the printer.
- If two or more optional finishers are installed, then remove the finishers individually from the printer.

Notes:

- Make sure to remove the topmost finisher first.
- To remove the finisher, hold the finisher on both sides, and then lift the latches to unlock the finisher.



- If the printer does not have a caster base but is configured with optional trays, then remove the trays.

Note: Slide the latch on the right side of the optional tray toward the front of the tray until it *clicks* into place.



- Use the handholds located on both sides of the printer to lift it.
- Make sure your fingers are not under the printer when you set it down.
- Make sure there is adequate clearance around the printer.
- Use only the power cord provided with this product or the manufacturer's authorized replacement.

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

Moving the printer to another location

The printer and its hardware options can be safely moved to another location by following these precautions:

- Any cart used to move the printer must have a surface able to support the full footprint of the printer.
- Any cart used to move the hardware options must have a surface able to support the dimensions of the hardware options.

- Keep the printer in an upright position.
- Avoid severe jarring movements.

Shipping the printer

When shipping the printer, use the original packaging.

Managing the printer

Checking the virtual display

- 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 Check the virtual display that appears at the top left corner of the screen.

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

Modifying confidential print settings

- 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** > **Security** > **Confidential Print Setup**.

- 3 Modify the settings:

- Set a maximum number of PIN entry attempts. When a user exceeds that number, all of the jobs for that user are deleted.
- Set an expiration time for confidential print jobs. When a user has not printed the jobs within that time, all of the jobs for that user are deleted.

- 4 Click **Submit** to save the modified settings.

Copying printer settings to other printers

Note: This feature is available only in network 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 Click **Copy Printer Settings**.

- 3 To change the language, select a language from the drop-down menu, and then click **Click here to submit language**.

- 4 Click **Printer Settings**.

5 Type the IP addresses of the source and target printers.

Note: If you want to add or remove target printers, then click **Add Target IP** or **Remove Target IP**.

6 Click **Copy Printer Settings**.

Clearing jams

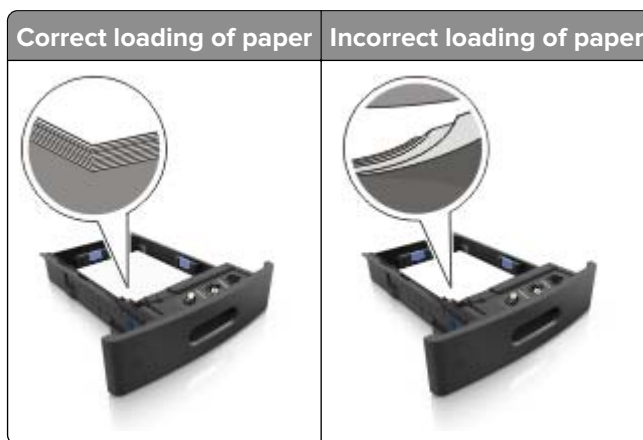
Carefully select paper and specialty media and load them properly to avoid paper jams. If jams occur, then follow the steps outlined in this chapter.

Note: Jam Recovery is set to Auto by default. The printer reprints jammed pages unless the memory required to hold the pages is needed for other printer tasks.

Avoiding jams

Load paper properly

- Make sure paper lies flat in the tray.



- Do not remove a tray while the printer is printing.
- Do not load a tray while the printer is printing. Load it before printing, or wait for a prompt to load it.
- Do not load too much paper. Make sure the stack height is below the maximum paper fill indicator.

- Do not slide the paper into the tray. Load paper as shown in the illustration.



- Make sure the guides in the tray or the multipurpose feeder are properly positioned and are not pressing tightly against the paper or envelopes.
- Push the tray firmly into the printer after loading paper.
- If you are loading prepunched paper for use with the staple finisher, then make sure the holes on the long edge of the paper are on the right side of the tray. For more information, see the “Loading paper and specialty media” section of the *User's Guide*.

Allow the paper to enter the optional mailbox bins properly

- Make sure to adjust the bin extender so that the paper size indicators match the size of the paper used.



Notes:

- If the bin extender is shorter than the size of the paper you are printing on, then the paper causes a jam in the mailbox bin. For example, if you are printing on a legal-size paper and the bin extender is set to letter-size, then a jam occurs.

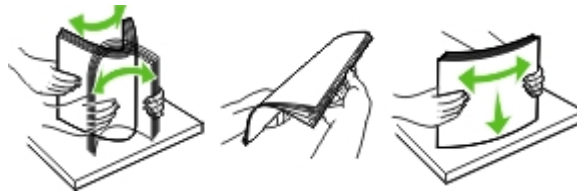
- If the bin extender is longer than the size of the paper you are printing on, then the edges become uneven and the paper is not stacked properly. For example, if you are printing on a letter-size paper and the bin extender is set to legal-size, then the paper does not stack properly.
- If paper needs to be returned to the mailbox bin, then insert the paper under the bin arm, and then push the paper all the way back.



Note: If the paper is not under the bin arm, then a jam occurs due to an overfilled bin.

Use recommended paper

- Use only recommended paper or specialty media.
- Do not load wrinkled, creased, damp, bent, or curled paper.
- Flex, fan, and straighten paper or specialty media before loading it.

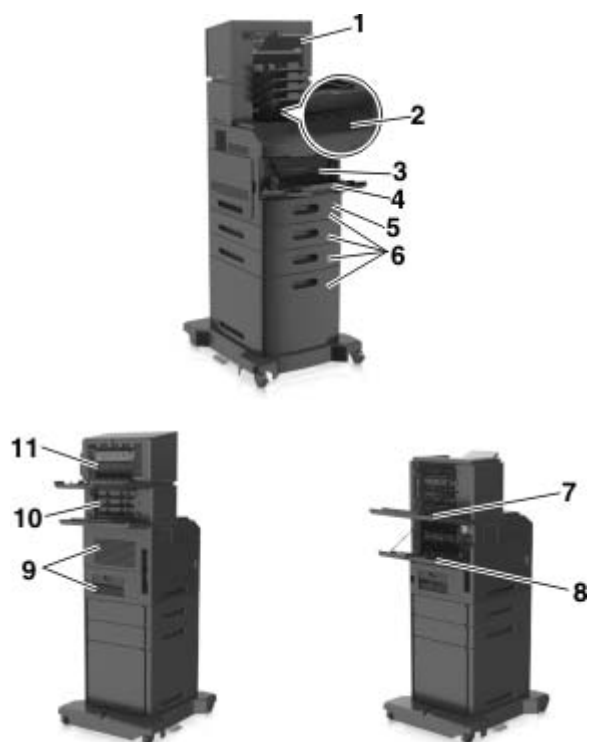


- Do not use paper that has been cut or trimmed by hand.
- Do not mix paper sizes, weights, or types in the same tray.
- Make sure the paper size and type are set correctly on the computer or printer control panel.
- Store paper per manufacturer recommendations.

Identifying jam locations

Notes:

- When Jam Assist is set to On, the printer flushes blank 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. However, the Auto setting reprints jammed pages if adequate printer memory is available.



	Jam location
1	Staple finisher bin
2	Standard bin
3	Tray cover
4	Multipurpose feeder
5	Duplex unit
6	Trays
7	Output expander
8	Upper rear door
9	Upper door and rear duplex area
10	Mailbox
11	Staple finisher rear door

Paper jam in the front cover

 **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.

- 1 Open the front cover and the multipurpose feeder.



- 2 Remove the toner cartridge.



- 3 Remove the imaging unit.



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

- 4 Remove the jammed paper.

Note: Make sure that all paper fragments are removed.



5 Insert the imaging unit.



Note: Use the arrows on the side of the printer as a guide.

6 Insert the toner cartridge.



- 7 Close the multipurpose feeder door and the front cover.



- 8 From the home screen, touch .

Paper jam in the rear door

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

- 1 Open the rear door.



- 2 Remove the jammed paper.

Note: Make sure that all paper fragments are removed.



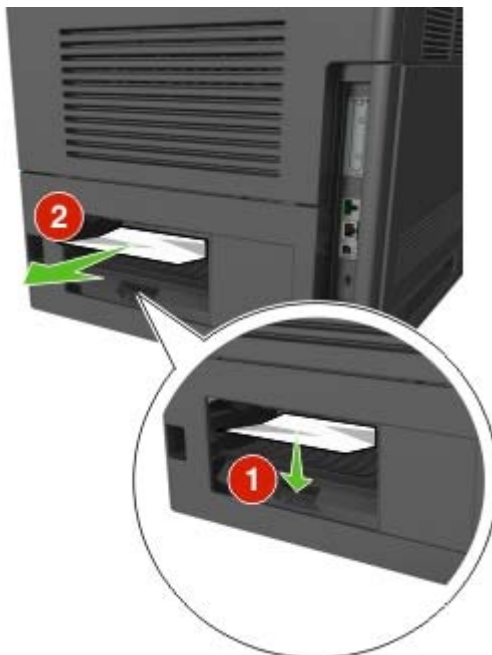
3 Close the rear door.

4 Push the back of the standard tray.



5 Remove the jammed paper.

Note: Make sure that all paper fragments are removed.



6 Insert the standard tray.

7 From the home screen, touch .

Paper jam in the standard bin

1 Remove the jammed paper.

Note: Make sure that all paper fragments are removed.



2 From the home screen, touch .

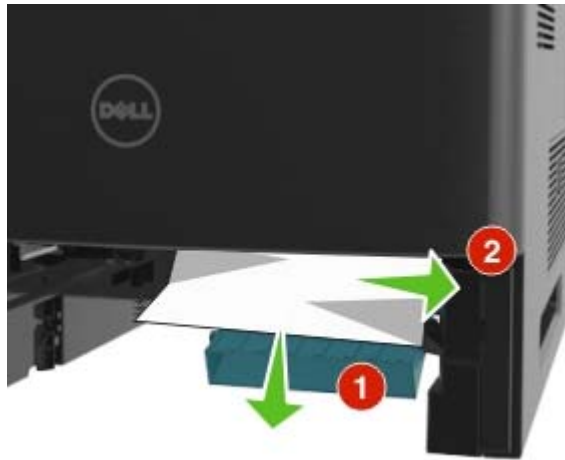
Paper jam in the duplex unit

1 Remove the tray.



- 2 Remove the jammed paper.

Note: Make sure that all paper fragments are removed.



- 3 Insert the tray.

- 4 From the home screen, touch  .

Paper jam in trays

- 1 Pull out the tray.



- 2 Remove the jammed paper.

Note: Make sure that all paper fragments are removed.



3 Insert the tray.

4 From the home screen, touch .

Paper jam in the multipurpose feeder

1 Remove paper from the multipurpose feeder.

2 Remove the jammed paper.

Note: Make sure that all paper fragments are removed.



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



- 4** Reload paper, and then adjust the paper guide.



- 5** From the home screen, touch .

Staple jam in the finisher

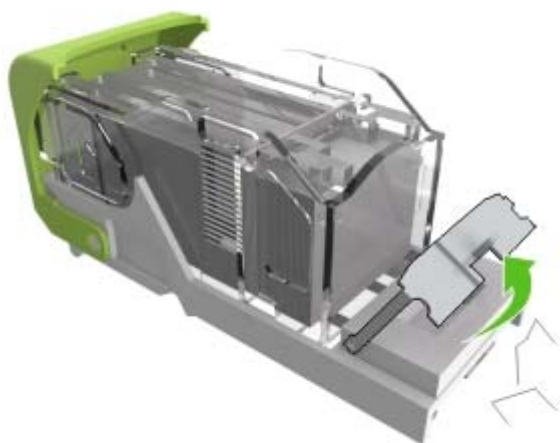
- 1 Open the staple access door.



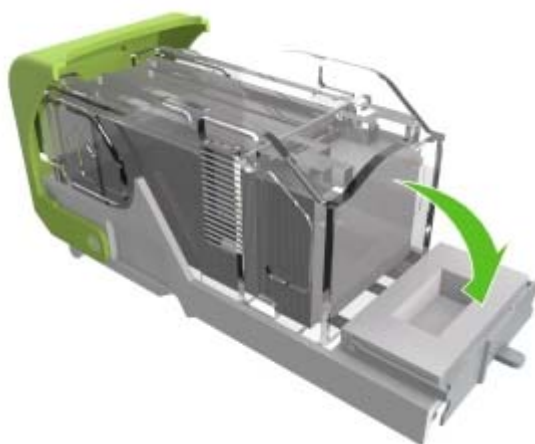
- 2 Remove the staple cartridge holder.



- 3** Open the staple guard, and then remove the loose staples.



- 4** Close the staple guard.



- 5 Press the staples against the metal bracket.



Note: If the staples are at the rear of the cartridge, then shake the cartridge downward to bring the staples near the metal bracket.

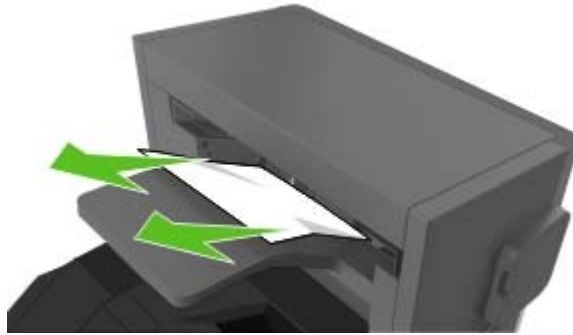


- 6 Insert the staple cartridge holder.
- 7 Close the staple access door.
- 8 From the home screen, touch .

Paper jam in the staple finisher

- 1 Remove the jammed paper.

Note: Make sure that all paper fragments are removed.



- 2 Open the rear staple finisher door.



- 3 Remove the jammed paper.

Note: Make sure that all paper fragments are removed.



4 Close the door.

5 From the home screen, touch .

Paper jam in the output expander

1 Open the rear output expander door.



2 Remove the jammed paper.

Note: Make sure that all paper fragments are removed.



3 Close the door.

4 From the home screen, touch .

Paper jam in the mailbox

1 Open the rear mailbox door.



2 Remove the jammed paper.

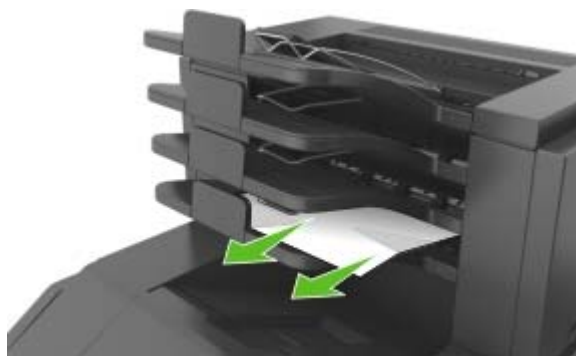
Note: Make sure that all paper fragments are removed.



3 Close the door.

4 If the jam is in the mailbox bin, then remove the jammed paper.

Note: Make sure that all paper fragments are removed.



5 From the home screen, touch .

Troubleshooting

Understanding the printer messages

Cartridge, imaging unit mismatch [41.xy]

Use only a supported toner cartridge and imaging unit.

Note: For a list of supported supplies, go to our Web site or contact the place where you purchased the printer.

Change [paper source] to [custom string] load [orientation]

Try one or more of the following:

- Load the correct size and type of paper in the tray, specify the paper size and type in the Paper menu on the control panel, and then touch **Finished changing paper**.
- Touch **Use current [paper source]** to use the available paper size and type in the tray.
- Touch **Reset active bin** to reset the active bin for a linked set of bins.
- Cancel the print job.

Change [paper source] to [custom type name] load [orientation]

Try one or more of the following:

- Load the correct size and type of paper in the tray or feeder, specify the paper size and type in the Paper menu on the printer control panel, and then touch **Finished changing paper**.
- Touch **Reset active bin** to reset the active bin for a linked set of bins.
- Cancel the print job.

Change [paper source] to [paper size] load [orientation]

Try one or more of the following:

- Load the correct size and type of paper in the tray or feeder, specify the size and type of paper in the Paper menu on the control panel, and then touch **Finished changing paper**.
- Touch **Use current [paper source]** to use the available size and type of paper in the current tray or feeder.
- Touch **Reset active bin** to reset the active bin for a linked set of bins.
- Cancel the print job.

Change [paper source] to [paper type] [paper size] load [orientation]

Try one or more of the following:

- Load the correct size and type of paper in the tray or feeder, specify the paper size and type in the Paper menu on the control panel, and then touch **Finished changing paper**.
- Touch **Use current [paper source]** to use the available paper size and type in the tray.

- Touch **Reset active bin** to reset the active bin for a linked set of bins.
- Cancel the print job.

Check tray [x] connection

Try one or more of the following:

- Turn off the printer, 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 Reattach the tray.
- 5 Connect the power cord to a properly grounded electrical outlet.
- 6 Turn the printer back on.

If the error occurs again, then:

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

Close door or insert cartridge

The toner cartridge is missing or not installed properly. Insert the cartridge, and then close all doors and covers.

Close rear door

Close the rear door of the printer.

Complex page, some data may not have printed [39]

Try one or more of the following:

- From the printer control panel, touch **Continue** to ignore the message and continue printing.
- Cancel current print job.
- Install additional printer memory.

Configuration change, some held jobs were not restored [57]

Held jobs are invalidated because of the following possible changes in the printer:

- The printer firmware has been updated.
- The tray for the print job has been removed.

- The print job is sent from a flash drive that is no longer attached to the USB port.
- The printer hard disk contains print jobs that were stored when the hard disk was installed in a different printer model.

From the printer control panel, touch **Continue** to clear the message.

Defective flash detected [51]

Try one or more of the following:

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

Disk full [62]

Try one or more of the following:

- From the printer control panel, touch **Continue** to clear the message and continue processing.
- Delete fonts, macros, and other data stored in the printer hard disk.
- Install a printer hard disk with larger capacity.

Disk must be formatted for use in this device

From the printer control panel, select **Format disk** to format the printer hard disk and clear the message.

Note: Formatting deletes all the files stored in the printer hard disk.

Disk near full. Securely clearing disk space.

Try one or more of the following:

- Touch **Continue** to clear the message and continue printing.
- Delete fonts, macros, and other data stored on the printer hard disk.
- Install a hard disk with higher capacity.

Empty the hole punch box

Try one or more of the following:

- Empty the hole punch box.
- Select **Continue** on the printer control panel to clear the message and continue printing.
- Cancel the print job.

Error reading USB drive. Remove USB.

An unsupported USB device is inserted. Remove the USB device, and then insert a supported one.

Error reading USB hub. Remove hub.

An unsupported USB hub has been inserted. Remove the USB hub, and then install a supported one.

Imaging unit low [84.xy]

You may need to order a replacement imaging unit. If necessary, select **Continue** on the printer control panel to clear the message and continue printing.

Imaging unit nearly low [84.xy]

If necessary, touch **Continue** on the printer control panel to clear the message and continue printing.

Imaging unit very low, [x] estimated pages remain [84.xy]

You may need to replace the imaging unit very soon. For more information, see the “Replacing supplies” section of the *User’s Guide*.

If necessary, touch **Continue** on the printer control panel to clear the message and continue printing.

Incompatible output bin [x] [59]

Try one or more of the following:

- Remove the indicated bin.
- From the printer control panel, touch **Continue** to clear the message and continue printing without using the indicated bin.

Incompatible tray [x] [59]

Try one or more of the following:

- Remove the indicated tray.
- From the printer control panel, touch **Continue** to clear the message and continue printing without using the indicated tray.

Incorrect paper size, open [paper source] [34]

Try one or more of the following:

- Load the correct size and type of paper in the tray, and then specify the paper size and type in the Paper menu on the printer control panel.
- Make sure the correct paper size and type are specified in Print Properties or the Print dialog settings.
- Check if the paper size is correctly set. For example, if MP Feeder Size is set to Universal, then make sure the paper is large enough for the data being printed.
- Check the length and width guides and make sure the paper is loaded properly in the tray.
- From the printer control panel, touch **Continue** to clear the message and print using a different tray.
- Cancel the print job.

Insert hole punch box

Insert the hole punch box into the finisher, and then touch **Continue** to clear the message.

Insert staple cartridge

Try one or more of the following:

- Insert a staple cartridge.
- Touch **Continue** to clear the message and print without using the staple finisher.

Insert Tray [x]

Insert the indicated tray into the printer.

Install bin [x]

Try one or more of the following:

- Install the specified bin:
 - 1 Turn off the printer.
 - 2 Unplug the power cord from the electrical outlet.
 - 3 Install the specified bin.
 - 4 Connect the power cord to a properly grounded electrical outlet.
 - 5 Turn the printer back on.
- Cancel the print job.
- Reset active bin

Install Tray [x]

Try one or more of the following:

- Install the specified tray:
 - 1 Turn off the printer.
 - 2 Unplug the power cord from the electrical outlet.
 - 3 Install the specified tray.
 - 4 Connect the power cord to a properly grounded electrical outlet.
 - 5 Turn the printer back on.
- Cancel the print job.
- Reset the active bin.

Insufficient memory for Flash Memory Defragment operation [37]

Try one or more of the following:

- From the printer control panel, touch **Continue** to stop the defragmentation and continue printing.
- Delete fonts, macros, and other data in the printer memory.

- Install additional printer memory.

Insufficient memory, some Held Jobs were deleted [37]

From the printer control panel, touch **Continue** to clear the message.

Insufficient memory, some held jobs will not be restored [37]

Try one or more of the following:

- From the printer control panel, touch **Continue** to clear the message.
- Delete other held jobs to free up additional printer memory.

Insufficient memory to collate job [37]

Try one or more of the following:

- From the printer control panel, touch **Continue** to print the part of the job already stored and begin collating the rest of the print job.
- Cancel the current print job.

Insufficient memory to support Resource Save feature [35]

Install additional printer memory or touch **Continue** to disable Resource Save, clear the message, and continue printing.

Load [paper source] with [custom string] [paper orientation]

Try one or more of the following:

- Load the tray or feeder with the correct size and type of paper, and then touch **Finished loading paper** on the control panel.
- Touch **Reset active bin** to reset the active bin for a linked set of bins.
- Cancel the current job.

Load [paper source] with [custom type name] [paper orientation]

Try one or more of the following:

- Load the tray or feeder with the correct size and type of paper, and then touch **Finished loading paper** on the control panel.
- Touch **Reset active bin** to reset the active bin for a linked set of bins.
- Cancel the print job.

Load [paper source] with [paper size] [paper orientation]

Try one or more of the following:

- Load the tray or feeder with the correct size of paper, and then touch **Finished loading paper** on the control panel.
- Touch **Reset active bin** to reset the active bin for a linked set of bins.
- Cancel the current job.

Load [paper source] with [paper type] [paper size] [paper orientation]

Try one or more of the following:

- Load the specified tray or feeder with the correct size and type of paper, and then touch **Finished loading paper** on the control panel.
- Touch **Reset active bin** to reset the active bin for a linked set of bins.
- Cancel the current job.

Load Multipurpose Feeder with [custom string] [paper orientation]

Try one or more of the following:

- Load the feeder with the correct size and type of paper.
- From the control panel, touch one of the following:
 - **Prompt each page, paper loaded** or **Do not prompt, paper loaded**—To clear the message and continue printing.
 - **Automatically select paper**—To use the paper loaded in the tray.
 - **Reset active bin**—To reset the active bin for a linked set of bins.
- Cancel the print job.

Load Multipurpose Feeder with [custom type name] [paper orientation]

Try one or more of the following:

- Load the feeder with the correct size and type of paper.
- From the control panel, touch one of the following:
 - **Prompt each page, paper loaded** or **Do not prompt, paper loaded**—To clear the message and continue printing.
 - **Automatically select paper**—To use the paper loaded in the tray.
 - **Reset active bin**—To reset the active bin for a linked set of bins.
- Cancel the print job.

Load Multipurpose Feeder with [paper size] [paper orientation]

Try one or more of the following:

- Load the feeder with the correct size of paper.
- From the control panel, touch one of the following:
 - **Prompt each page, paper loaded** or **Do not prompt, paper loaded**—To clear the message and continue printing.
 - **Automatically select paper**—To use the paper loaded in the tray.
 - **Reset active bin**—To reset the active bin for a linked set of bins.
- Cancel the print job.

Load Multipurpose Feeder with [paper type] [paper size] [paper orientation]

Try one or more of the following:

- Load the feeder with the correct size and type of paper.
- From the control panel, touch one of the following:
 - **Prompt each page, paper loaded** or **Do not prompt, paper loaded**—To clear the message and continue printing.
 - **Automatically select paper**—To use the paper loaded in the tray.
 - **Reset active bin**—To reset the active bin for a linked set of bins.
- Cancel the print job.

Load staples

Try one or more of the following:

- Replace or insert the staple cartridge in the finisher.
For instructions on inserting or replacing a staple cartridge in the finisher, touch **More information** on the printer control panel.
- From the printer control panel, touch **Continue** to clear the message and continue printing.
- From the printer control panel, touch **Cancel job** to cancel the print job.

Maintenance kit low [80.xy]

You may need to order a maintenance kit. For more information, contact technical support or your Dell printer dealer.

If necessary, touch **Continue** to clear the message and continue printing.

Maintenance kit nearly low [80.xy]

For more information, contact technical support or your Dell printer dealer.

If necessary, touch **Continue** to clear the message and continue printing.

Maintenance kit very low, [x] estimated pages remain [80.xy]

You may need to replace the maintenance kit very soon. For more information, contact technical support or your Dell printer dealer.

If necessary, touch **Continue** to clear the message and continue printing.

Memory full [38]

Try one or more of the following:

- From the printer control panel, touch **Cancel job** to clear the message.
- Install additional printer memory.

Network [x] software error [54]

Try one or more of the following:

- From the printer control panel, touch **Continue** to continue printing.
- Turn off the printer, wait for about 10 seconds, and then turn the printer back on.
- Update the network firmware in the printer or print server. For more information, contact technical support or your Dell printer dealer.

Non-Dell [supply type], see User's Guide [33.xy]

Note: The supply type can either be a toner cartridge or imaging unit.

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

Your Dell printer is designed to function best with genuine Dell 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 Dell 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 Dell 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 are not 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, press and hold  and # on the printer control panel simultaneously for 15 seconds to clear the message and continue printing.

If you do not wish to accept these risks, then remove the third-party supply or part from your printer, and then install a genuine Dell supply or part.

Note: For the list of supported supplies, see the “Ordering supplies” section of the *User's Guide* or visit www.dell.com/support/printers.

Not enough free space in flash memory for resources [52]

Try one or more of the following:

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

- Install a flash memory card with larger capacity.

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

Paper changes needed

Try one or more of the following:

- From the printer control panel, select **Prompt for each page** to continue printing.
- Select **Use current supplies** to continue printing using the paper loaded in the tray.
- Cancel the current print job.

Parallel port [x] disabled [56]

Do either of the following:

- From the printer control panel, select **Continue** to clear the message and continue printing.
The printer discards any data received through the parallel port.
- Select **Reset active bin** to reset the bin for a linked set of bins.

Reattach bin [x]

Try one or more of the following:

- Turn off the printer, and then turn it back on.
- Reattach the indicated bin.
 - 1 Turn off the printer.
 - 2 Unplug the power cord from the electrical outlet.
 - 3 Remove the indicated bin.
 - 4 Reattach the bin.
 - 5 Connect the power cord to a properly grounded electrical outlet.
 - 6 Turn the printer back on.
- Remove the indicated bin:
 - 1 Turn off the printer.
 - 2 Unplug the power cord from the electrical outlet.
 - 3 Remove the indicated bin.
 - 4 Contact technical support or your Dell printer dealer.
- From the printer control panel, touch **Continue** to clear the message and print without using the specified bin.

Reattach bins [x] – [y]

Try one or more of the following:

- Turn off the printer, and then turn it back on.
- Reattach the indicated bins:
 - 1** Turn off the printer.
 - 2** Unplug the power cord from the electrical outlet.
 - 3** Remove the indicated bins.
 - 4** Reattach the bins.
 - 5** Connect the power cord to a properly grounded electrical outlet.
 - 6** Turn the printer back on.
- Remove the indicated bins:
 - 1** Turn off the printer.
 - 2** Unplug the power cord from the electrical outlet.
 - 3** Remove the indicated bins.
 - 4** Contact technical support or your Dell printer dealer.

From the printer control panel, touch **Continue** to clear the message and print without using the indicated bins.

Reinstall missing or unresponsive cartridge [31.xy]

Try one or more of the following:

- Check if the toner cartridge is missing. If missing, install the toner cartridge.

For information on installing the cartridge, see the “Replacing supplies” section of the *User’s Guide*.
- If the toner cartridge is installed, then remove the unresponsive toner cartridge, and then reinstall it.

Note: If the message appears after reinstalling the supply, then the cartridge is defective. Replace the toner cartridge.

Reinstall missing or unresponsive fuser [31.xy]

Try one or more of the following:

- Remove the unresponsive fuser, and then reinstall it.

Note: If the message appears after reinstalling the supply, then the fuser is defective. Replace the fuser.
- Install the missing fuser.

For more information on installing the fuser, see the instruction sheet that came with the part.

Reinstall missing or unresponsive imaging unit [31.xy]

Try one or more of the following:

- Check if the imaging unit is missing. If missing, install the imaging unit.
For information on installing the imaging unit, see the “Replacing supplies” section of the *User’s Guide*.
- If the imaging unit is installed, then remove the unresponsive imaging unit, and then reinstall it.

Note: If the message appears after reinstalling the supply, then the imaging unit is defective. Replace the imaging unit.

Remove defective disk [61]

Remove and replace the defective printer hard disk.

Remove packaging material, [area name]

Remove any remaining packaging material from the specified location.

Remove paper from all bins

Remove paper from all bins to clear the message and continue printing.

Note: If removing the paper does not clear the message, then select **Continue** on the printer control panel.

Remove paper from bin [x]

Remove paper from the specified bin to clear the message and continue printing.

Note: If removing the paper does not clear the message, then select **Continue** on the printer control panel.

Remove paper from [linked set bin name]

Remove paper from the specified bin to clear the message and continue printing.

If removing the paper does not clear the message, then select **Continue** on the printer control panel.

Remove paper from standard output bin

Remove the paper stack from the standard bin.

Replace cartridge, 0 estimated pages remain [88.xy]

Replace the toner cartridge to clear the message and continue printing. For more information, see the instruction sheet that came with the supply or see the “Replacing supplies” section of the *User’s Guide*.

Note: If you do not have a replacement cartridge, then see the “Ordering supplies” section of the *User’s Guide* or visit our Web site.

Replace defective imaging unit [31.xy]

Replace the defective imaging unit to clear the message. For more information, see the instruction sheet that came with the supply.

Note: If you do not have a replacement imaging unit, then see the “Ordering supplies” section of the *User’s Guide* or visit our Web site.

Replace imaging unit, 0 estimated pages remain [84.xy]

Replace the imaging unit to clear the message and continue printing. For more information, see the instruction sheet that came with the supply or see the “Replacing supplies” section of the *User’s Guide*.

Note: If you do not have a replacement imaging unit, then see the “Ordering supplies” section of the *User’s Guide* or visit our Web site.

Replace maintenance kit, 0 estimated pages remain [80.xy]

Contact technical support or your Dell printer dealer, and then report the message. The printer is scheduled for maintenance.

Replace missing cartridge [31.xy]

Install the missing toner cartridge to clear the message. For more information, see the “Replacing supplies” section of the *User’s Guide*.

Replace missing fuser [31.xy]

Install the missing fuser. For more information, see the instruction sheet that came with the part.

Replace missing imaging unit [31.xy]

Install the missing imaging unit to clear the message. For more information, see the “Replacing supplies” section of the *User’s Guide*.

Replace unsupported cartridge [32.xy]

Remove the toner cartridge, and then install a supported one to clear the message and continue printing. For more information, see the instruction sheet that came with the supply or see the “Replacing supplies” section of the *User’s Guide*.

Note: If you do not have a replacement cartridge, then see the “Ordering supplies” section of the *User’s Guide* or visit our Web site.

Replace unsupported fuser [32.xy]

Remove the fuser, and then install a supported one. For more information, see the instruction sheet that came with the part.

Replace unsupported imaging unit [32.xy]

Remove the imaging unit, and then install a supported one to clear the message and continue printing. For more information, see the instruction sheet that came with the supply or see the “Replacing supplies” section of the *User’s Guide*.

Note: If you do not have a replacement imaging unit, then see the “Ordering supplies” section of the *User’s Guide* or visit our Web site.

Restore held jobs?

Do either of the following:

- Select **Restore** on the printer control panel to restore all held jobs stored in the printer hard disk.
- Select **Do not restore** if you do not want any print jobs to be restored.

Serial port [x] disabled [56]

Try one or more of the following:

- From the printer control panel, select **Continue** to clear the message.
The printer discards any data received through the specified serial port.
- Select **Reset active bin** to reset the active bin for a linked set of bins.
- Make sure the Serial Buffer menu is set to Enabled.

Some held jobs were not restored

From the printer control panel, select **Continue** to clear the message and continue printing.

Note: Held jobs that are not restored remain in the printer hard disk and are inaccessible.

Standard network software error [54]

Try one or more of the following:

- From the printer control panel, touch **Continue** to continue printing.
- Turn off the printer, and then turn it back on.
- Update the network firmware in the printer or print server. For more information, contact technical support or your Dell printer dealer.

Standard USB port disabled [56]

Try one or more of the following:

- From the printer control panel, touch **Continue** to clear the message.
- Enable the USB port. From the printer control panel, navigate to:
Network/Ports > USB Buffer > Auto

Note: The printer discards any data received through the USB port.

Supply needed to complete job

A supply needed to complete the job is missing. Cancel the current job.

Too many bins attached [58]

- 1 Turn off the printer.
- 2 Unplug the power cord from the electrical outlet.
- 3 Remove the extra bins.
- 4 Connect the power cord to a properly grounded electrical outlet.
- 5 Turn the printer back on.

Too many disks installed [58]

- 1 Turn off the printer.
- 2 Unplug the power cord from the electrical outlet.
- 3 Remove the extra printer hard disks.
- 4 Connect the power cord to a properly grounded electrical outlet.
- 5 Turn the printer back on.

Too many flash options installed [58]

- 1 Turn off the printer.
- 2 Unplug the power cord from the electrical outlet.
- 3 Remove the extra flash memory.
- 4 Connect the power cord to a properly grounded electrical outlet.
- 5 Turn the printer back on.

Too many trays attached [58]

- 1 Turn off the printer.
- 2 Unplug the power cord from the electrical outlet.
- 3 Remove the extra trays.
- 4 Connect the power cord to a properly grounded electrical outlet.
- 5 Turn the printer back on.

Tray [x] paper size unsupported

The paper size in the specified tray is unsupported. Replace it with a supported paper size.

Unformatted flash detected [53]

Try one or more of the following:

- From the printer control panel, touch **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.

Unsupported disk

An unsupported disk has been inserted. Remove the unsupported disk, and then install a supported one.

Unsupported option in slot [x] [55]

- 1 Turn off the printer.
- 2 Unplug the power cord from the electrical outlet.
- 3 Remove the unsupported option card from the printer controller board, and then replace it with a supported card.
- 4 Connect the power cord to a properly grounded electrical outlet.
- 5 Turn the printer back on.

USB port [x] disabled [56]

Try one or more of the following:

- From the printer control panel, select **Continue** to clear the message and continue printing.
The printer discards any data received through the specified serial port.
- Select **Reset active bin** to reset the active bin for a linked set of bins.
- Make sure the USB Buffer menu is enabled.

Solving printer problems

- “Basic printer problems” on page 188
- “Hardware and internal option problems” on page 189
- “Paper feed problems” on page 194

Basic printer problems

The printer is not responding

Action	Yes	No
Step 1 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. Is the printer responding?	The problem is solved.	Go to step 2.
Step 2 Check if the electrical outlet is turned off by a switch or breaker. Is the electrical outlet turned off by a switch or breaker?	Turn on the switch or reset the breaker.	Go to step 3.
Step 3 Check if the printer is on. Is the printer on?	Go to step 4.	Turn on the printer.
Step 4 Check if the printer is in sleep or hibernate mode. Is the printer in sleep or hibernate mode?	Press the power button to wake the printer.	Go to step 5.
Step 5 Check if the cables connecting the printer and the computer are inserted in the correct ports. Are the cables inserted in the correct ports?	Go to step 6.	Make sure to match the following: • The USB cable with the USB port on the printer • The Ethernet cable with the Ethernet port on the printer
Step 6 Turn off the printer, reinstall the hardware options, and then turn it back on. For more information, see the documentation that came with the option. Is the printer responding?	The problem is solved	Go to step 7.
Step 7 Install the correct print driver. Is the printer responding?	The problem is solved	Go to step 8.

Action	Yes	No
Step 8 Turn off the printer, wait for about 10 seconds, and then turn it back on. Is the printer responding?	The problem is solved.	Contact technical support .

Printer display is blank

Action	Yes	No
Step 1 Press the Sleep button on the printer control panel. Does Ready appear on the printer display?	The problem is solved.	Go to step 2.
Step 2 Turn off the printer, then wait for about 10 seconds, and then turn the printer back on. Do Please wait and Ready appear on the printer display?	The problem is solved.	Turn off the printer, and then contact technical support .

Hardware and internal option problems

2100-sheet tray problems

Action	Yes	No
Step 1 a Pull out the tray, and then do one or more of the following: • Make sure paper lies flat in the tray. • Check for paper jams or misfeeds. • Check if the paper size indicators on the paper guides are aligned with the paper size indicators on the tray. • Check if the paper guides are aligned against the edges of the paper. • Make sure the paper is below the maximum paper fill indicator. • Check if you are printing on a recommended paper size and type. • Check if the paper or specialty media meets specifications and is not damaged. b Insert the tray properly. Note: Press the paper stack down while inserting the tray. Does the tray operate properly?	The problem is solved.	Go to step 2.

Action	Yes	No
Step 2 Turn off the printer, then wait about 10 seconds, and then turn it back on. Does the tray operate properly?	The problem is solved.	Go to step 3.
Step 3 Print a menu settings page, and then check if the tray is listed in the Installed Features list. Note: If the tray is listed in the menu settings page, but paper jams when it enters or exits the tray, then it may not be properly installed. Is the tray listed in the menu settings page?	Go to step 4.	For more information, see the setup sheet that came with the 2100-sheet tray.
Step 4 Check if the tray is available in the printer driver. Note: You may need to manually add the tray in the printer driver to make it available for print jobs. For more information, see “Adding available options in the print driver” on page 41 . Is the tray available in the printer driver?	Go to step 5.	Manually add the tray in the printer driver.
Step 5 Check if the tray is selected. From the application you are using, select the tray. If you are using Mac OS X version 9, then make sure the printer is set up in Chooser. Does the tray operate properly?	The problem is solved.	Contact technical support .

Cannot detect internal option

Action	Yes	No
Step 1 Turn off the printer, then wait for about 10 seconds, and then turn on the printer. Does the internal option operate correctly?	The problem is solved.	Go to step 2.
Step 2 Check if the internal option is properly installed in the controller board. a Turn off the printer using the power switch, and then unplug the power cord from the electrical outlet. b Make sure the internal option is installed in the appropriate connector in the controller board. c Connect the power cord to the printer, then to a properly grounded electrical outlet, and then turn on the printer. Is the internal option properly installed in the controller board?	Go to step 3.	Connect the internal option to the controller board.
Step 3 Print a menu settings page, and then check to see if the internal option is listed in the Installed Features list. Is the internal option listed in the menu settings page?	Go to step 4.	Reinstall the internal option.
Step 4 a Check if the internal option is selected. It may be necessary to manually add the internal option in the printer driver to make it available for print jobs. For more information, see “Adding available options in the print driver” on page 41. b Resend the print job. Does the internal option operate correctly?	The problem is solved.	Contact technical support .

Tray problems

Action	Yes	No
Step 1 a Pull out the tray, and then do one or more of the following: • Check for paper jams or misfeeds. • Check if the paper size indicators on the paper guides are aligned with the paper size indicators on the tray. • If you are printing on custom-size paper, then make sure that the paper guides rest against the edges of the paper. • Make sure the paper is below the maximum paper fill indicator. • Make sure paper lies flat in the tray. b Check if the tray closes properly. Is the tray working?	The problem is solved.	Go to step 2.
Step 2 a Turn off the printer, then wait about 10 seconds, and then turn the printer back on. b Resend the print job. Is the tray working?	The problem is solved.	Go to step 3.
Step 3 Check if the tray is installed and recognized by the printer. Print a menu settings page, and then check if the tray is listed in the Installed Features list. Is the tray listed in the menu settings page?	Go to step 4.	Reinstall the tray. For more information, see the setup documentation that came with the tray.
Step 4 Check if the tray is available in the printer driver. Note: If necessary, manually add the tray in the printer driver to make it available for print jobs. For more information, see “Adding available options in the print driver” on page 41 . Is the tray available in the printer driver?	The problem is solved.	Contact technical support .

Internal Solutions Port does not operate correctly

Action	Yes	No
Step 1 Make sure the Internal Solutions Port (ISP) is installed. a Install the ISP. For more information, see “Installing an Internal Solutions Port” on page 26. b Print a menu settings page, and then check if the ISP is listed in the Installed Features list. Is the ISP listed in the Installed Features list?	Go to step 2.	Check if you have a supported ISP. Note: An ISP from another printer may not work on this printer.
Step 2 Check the cable and the ISP connection. a Use the correct cable, and then make sure 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. Note: The ISP solution interface cable and the receptacle on the controller board are color-coded. Does the Internal Solutions Port operate correctly?	The problem is solved.	Contact technical support .

USB/parallel interface card does not operate correctly

Action	Yes	No
Step 1 Make sure the USB or parallel interface card is installed. a Install the USB or parallel interface card. For more information, see “Installing an Internal Solutions Port” on page 26. b Print a menu settings page, and then check if the USB or parallel interface card is listed in the Installed Features list. Is the USB or parallel interface card listed in the Installed Features list?	Go to step 2.	Check if you have a supported USB or parallel interface card. Note: A USB or parallel interface card from another printer may not work on this printer.
Step 2 Check the cable and the USB or parallel interface card connection. Use the correct cable, and then make sure it is securely connected to the USB or parallel interface card. Does the USB or parallel interface card operate correctly?	The problem is solved.	Contact technical support .

Paper feed problems

Jammed pages are not reprinted

Action	Yes	No
Turn on Jam Recovery. a From the home screen, navigate to:  > Settings > General Settings > Print Recovery b From the Jam Recovery menu, select On or Auto. c Save your changes. Do pages reprint after a jam?	The problem is solved.	Contact technical support .

Paper frequently jams

Action	Yes	No
Step 1 a Pull out the tray. b Check if the paper is loaded correctly. Notes: • 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. c Insert the tray. d Print the document. Do paper jams still occur frequently?	Go to step 2.	The problem is solved.
Step 2 a Load paper from a fresh package. b Print the document. Do paper jams still occur frequently?	Contact technical support .	The problem is solved.

Solving print problems

Printing problems

Confidential and other held documents do not print

Action	Yes	No
Step 1 a From the control panel, check if the documents appear in the Held Jobs list. Note: If the documents are not listed, then print the documents using the Print and Hold options. b Print the documents. Are the documents printed?	The problem is solved.	Go to step 2.
Step 2 The print job may contain a formatting error or invalid data. • Delete the print job, and then send it again. • For PDF files, generate a new file, and then print the documents. Are the documents printed?	The problem is solved.	Go to step 3.
Step 3 If you are printing from the Internet, then the printer may be reading the multiple job titles as duplicates. For Windows users a Open the Printing Preferences dialog. b From the Print and Hold section, select Keep duplicate documents. c Enter a PIN. d Resend the print job. For Macintosh users a Save and name each job differently. b Send the job individually. Are the documents printed?	The problem is solved.	Go to step 4.
Step 4 a Delete some held jobs to free up printer memory. b Resend the print job. Are the documents printed?	The problem is solved.	Go to step 5.

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

Envelope seals when printing

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

Unable to read flash drive

Action	Yes	No
Step 1 Check if the flash drive is inserted into the front USB port. Note: The flash drive does not work when it is inserted into the rear USB port. Does the problem remain?	Go to step 2.	The problem is solved.
Step 2 Check if the flash drive is supported. For more information, see “Supported flash drives and file types” on page 78 Does the problem remain?	Go to step 3.	The problem is solved.
Step 3 Check if the front USB port is disabled. Does the problem remain?	Contact technical support .	The problem is solved.

Incorrect characters print

Action	Yes	No
Step 1 Make sure that the printer is not in Hex Trace mode. Note: If Ready Hex appears on the display, then turn off the printer, and then turn it back on to deactivate Hex Trace mode. Is the printer in Hex Trace mode?	Deactivate Hex Trace mode.	Go to step 2.
Step 2 a From the control panel, select Standard Network or Network [x] , and then set PCL SmartSwitch or PS SmartSwitch to On. b Resend the print job. Do incorrect characters print?	Contact technical support .	The problem is solved.

Job prints from the wrong tray or on the wrong paper

Action	Yes	No
Step 1 a Check if you are printing on a supported paper. b Print the document. Is the document printed from the correct tray or on the correct paper?	The problem is solved.	Go to step 2.
Step 2 a Depending on your operating system, specify the paper size from the Printing Preferences or Print dialog. Notes: - Make sure that the settings match the paper loaded in the tray. - You can also change the settings on the printer control panel. b Print the document. Is the document printed from the correct tray or on the correct paper?	The problem is solved.	Go to step 3.
Step 3 a Check if the trays are not linked. b Print the document. Is the document printed from the correct tray or on the correct paper?	The problem is solved.	Contact technical support .

Large jobs do not collate

Action	Yes	No
Step 1 a From the Finishing menu on the printer control panel, set Collate to (1,2,3) (1,2,3). b Resend the print job. Did the job print and collate correctly?	The problem is solved.	Go to step 2.
Step 2 a From the printer software, set Collate to (1,2,3) (1,2,3). Note: Setting Collate to (1,1,1) (2,2,2) in the software overrides the setting in the Finishing menu. b Resend the print job. Did the job print and collate correctly?	The problem is solved.	Go to step 3.
Step 3 Reduce the complexity of the print job by eliminating the number and size of fonts, the number and complexity of images, and the number of pages in the job. Did the job print and collate correctly?	The problem is solved.	Contact technical support .

Multiple-language PDF files do not print

Action	Yes	No
Step 1 a Check if the print options for the PDF output are set to embed all fonts. For more information, see the documentation that came with Adobe Acrobat. b Generate a new PDF file, and then resend the print job. Do the files print?	The problem is solved.	Go to step 2.
Step 2 a Open the document you want to print in Adobe Acrobat. b Click File > Print > Advanced > Print As Image > OK > OK . Do the files print?	The problem is solved.	Contact technical support .

Print job takes longer than expected

Action	Yes	No
Step 1 Change the environmental settings of the printer. a From the printer control panel, navigate to:  > Settings > General Settings b Select Eco-Mode or Quiet Mode , and then select Off . Note: Disabling Eco-Mode or Quiet Mode may increase the consumption of energy or supplies, or both. Did the job print?	The problem is solved.	Go to step 2.
Step 2 Reduce the number and size of fonts, the number and complexity of images, and the number of pages in the print job, and then resend the job Did the job print?	The problem is solved.	Go to step 3.
Step 3 a Remove held jobs stored in the printer memory. b Resend the print job. Did the job print?	The problem is solved.	Go to step 4.
Step 4 a Disable the Page Protect feature. From the printer control panel, navigate to:  > Settings > General Settings > Print Recovery > Page Protect > Off b Resend the print job. Did the job print?	The problem is solved.	Go to step 5.
Step 5 a Check if the cable connections to the printer and print server are secure. For more information, see the setup documentation that came with the printer. b Resend the print job. Did the job print?	The problem is solved.	Go to step 6.
Step 6 Install additional printer memory, and then resend the print job. Did the job print?	The problem is solved.	Contact technical support .

Print jobs do not print

Action	Yes	No
Step 1 a From the document you are trying to print, open the Print dialog and check if you have selected the correct printer. Note: If the printer is not the default printer, then you must select the printer for each document that you want to print. b Resend the print job. Do the jobs print?	The problem is solved.	Go to step 2.
Step 2 a Check if the printer is plugged in and turned on, and if Ready appears on the printer display. b Resend the print job. Do the jobs print?	The problem is solved.	Go to step 3.
Step 3 If an error message appears on the printer display, then clear the message. Note: The printer continues to print after clearing the message. Do the jobs print?	The problem is solved.	Go to step 4.
Step 4 a Check if the ports (USB, serial, or Ethernet) are working and if the cables are securely connected to the computer and the printer. Note: For more information, see the setup documentation that came with the printer. b Resend the print job. Do the jobs print?	The problem is solved.	Go to step 5.
Step 5 a Turn off the printer, wait for about 10 seconds, and then turn the printer back on. b Resend the print job. Do the jobs print?	The problem is solved.	Go to step 6.
Step 6 a Remove, and then reinstall the printer software. For more information, see “Installing the printer software” on page 41 . Note: The printer software is available at www.dell.com/support/printers . b Resend the print job. Do the jobs print?	The problem is solved.	Contact technical support .

Printing slows down

Notes:

- When printing using narrow paper, the printer prints at a reduced speed to prevent damage to the fuser.
- The printer speed may be reduced when printing for long periods of time, or printing at elevated temperatures.

Action	Yes	No
a Make sure the size of the paper loaded in the tray matches the fuser type. Note: To identify the fuser type, view the label on the fuser. b Resend the print job. Does the print speed increase?	The problem is solved.	Contact technical support or your Dell printer dealer.

Tray linking does not work

Notes:

- The trays can detect paper length.
- The multipurpose feeder does not automatically detect the paper size. You must set the size from the Paper Size/Type menu.

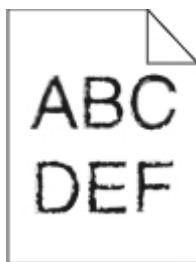
Action	Yes	No
Step 1 a Open the trays, and then check if they contain paper of the same size and type. • Check if the paper guides are in the correct positions for the size of the paper loaded in each tray. • Check if the paper size indicators on the paper guides are aligned with the paper size indicators on the tray. b Resend the print job. Do the trays link correctly?	The problem is solved.	Go to step 2.
Step 2 a From the printer control panel, set the paper size and type in the Paper menu to match the paper loaded in the trays to be linked. Note: The paper size and type must match for trays to be linked. b Resend the print job. Do the trays link correctly?	The problem is solved.	Contact technical support .

Unexpected page breaks occur

Action	Yes	No
Increase the printing timeout. a From the home screen, navigate to:  > Settings > General Settings > Timeouts b Increase the Print Timeout setting, and then touch Submit. c Resend the print job. Did the file print correctly?	The problem is solved.	Check the original file for manual page breaks.

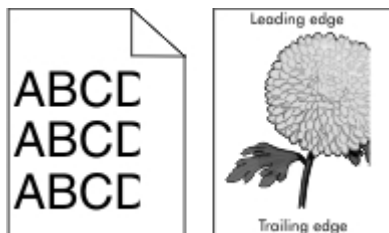
Print quality problems

Characters have jagged or uneven edges



Action	Yes	No
Step 1 a Print a font sample list to check if the fonts you are using are supported by the printer. 1 From the scanner control panel, navigate to:  > Reports > Print Fonts 2 Touch PCL Fonts or PostScript Fonts. b Use a font that is supported by the printer or install the font that you want to use. For more information, contact your system support person. c Resend the print job. Do prints still contain characters that have jagged or uneven edges?	Go to step 2.	The problem is solved.
Step 2 a Use a font that is supported by the printer or install the font that you want to use on your computer. For more information, contact your system support person. b Resend the print job. Do prints still contain characters that have jagged or uneven edges?	Contact technical support .	The problem is solved.

Clipped pages or images

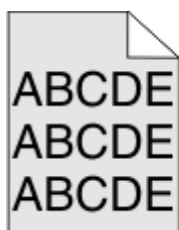


Action	Yes	No
Step 1 a Move the width and length guides in the tray to the correct positions for the paper loaded. b Resend the print job. Is the page or image clipped?	Go to step 2.	The problem is solved.
Step 2 From the printer control panel, set the paper size and type in the Paper menu to match the paper loaded in the tray. Do the paper size and type match the paper loaded in the tray?	Go to step 3.	Do one or more of the following: - Specify the paper size from the tray settings to match the paper loaded in the tray. - Change the paper loaded in the tray to match the paper size specified in the tray settings.
Step 3 a Depending on your operating system, specify the paper size from Printing Preferences or from the Print dialog. b Resend the print job. Is the page or image clipped?	Go to step 4.	The problem is solved.
Step 4 a Reinstall the imaging unit. - Remove the toner cartridge. - Remove the imaging unit. Warning—Potential Damage: Do not expose the imaging unit to direct light for more than 10 minutes. Extended exposure to light may cause print quality problems. - Install the imaging unit, and then the cartridge. b Resend the print job. Is the page or image clipped?	Contact technical support .	The problem is solved.

Compressed images appear on prints

Action	Yes	No
a Make sure the size of the paper loaded in the tray matches the fuser type. Note: To identify the fuser type, view the label on the fuser. b Resend the print job. Do compressed images still appear?	Contact technical support or your Dell printer dealer.	The problem is solved.

Gray background on prints



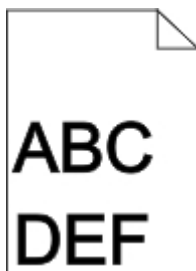
Action	Yes	No
Step 1 a From the Quality Menu on the printer control panel, decrease the toner darkness. Note: 8 is the factory default setting. b Resend the print job. Did the gray background disappear from the prints?	The problem is solved.	Go to step 2.
Step 2 Reinstall the imaging unit and the toner cartridge. a Remove the toner cartridge. b Remove the imaging unit. Warning—Potential Damage: Do not expose the imaging unit to direct light for more than 10 minutes. Extended exposure to light can cause print quality problems. c Install the imaging unit, and then the cartridge. d Resend the print job. Did the gray background disappear from the prints?	The problem is solved.	Go to step 3.
Step 3 Replace the imaging unit, and then resend the print job. Did the gray background disappear from the prints?	The problem is solved.	Contact technical support .

Horizontal voids appear on prints



Action	Yes	No
Step 1 a Make sure your software program is using a correct fill pattern. b Resend the print job. Do horizontal voids appear on prints?	Go to step 2.	The problem is solved.
Step 2 a Load the specified tray or feeder with a recommended type of paper. b Resend the print job. Do horizontal voids appear on prints?	Go to step 3.	The problem is solved.
Step 3 a Redistribute the toner in the imaging unit. 1 Remove the toner cartridge, and then the imaging unit. 2 Firmly shake the imaging unit. Warning—Potential Damage: Do not expose the imaging unit to direct light for more than 10 minutes. Extended exposure to light may cause print quality problems. 3 Reinstall the imaging unit, and then the cartridge. b Resend the print job. Do horizontal voids appear on prints?	Go to step 4.	The problem is solved.
Step 4 Replace the imaging unit, and then resend the print job. Do horizontal voids appear on prints?	Contact technical support .	The problem is solved.

Incorrect margins on prints

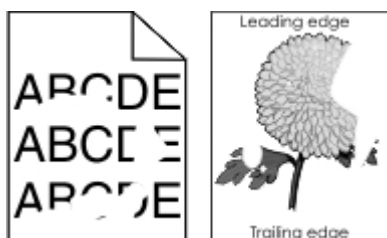


Action	Yes	No
Step 1 a Move the width and length guides in the tray to the correct positions for the paper size loaded. b Resend the print job. Are the margins correct?	The problem is solved.	Go to step 2.
Step 2 From the printer control panel, set the paper size in the Paper menu to match the paper loaded in the tray. Does the paper size match the paper loaded in the tray?	Go to step 3.	Do one or more of the following: - Specify the paper size from the tray settings to match the paper loaded in the tray. - Change the paper loaded in the tray to match the paper size specified in the tray settings.
Step 3 a Depending on your operating system, specify the paper size from Printing Preferences or from the Print dialog. b Resend the print job. Are the margins correct?	The problem is solved.	Contact technical support .

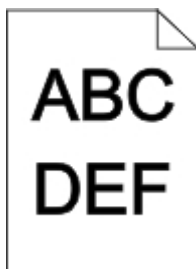
Paper curl

Action	Yes	No
Step 1 Move the width and length guides in the tray to the correct positions for the size of the paper loaded. Are the width and length guides positioned correctly?	Go to step 2.	Adjust the width and length guides.
Step 2 From the printer control panel, set the paper type and weight in the Paper menu to match the paper loaded in the tray. Do the paper type and weight match the type and weight of the paper in the tray?	Go to step 3.	Specify the paper type and weight from the tray settings to match the paper loaded in the tray.
Step 3 a Depending on your operating system, specify the paper type and weight from Printing Preferences or from the Print dialog. b Resend the print job. Is the paper still curled?	Go to step 4.	The problem is solved.
Step 4 a Remove the paper from the tray, and then turn it over. b Resend the print job. Is the paper still curled?	Go to step 5.	The problem is solved.
Step 5 a Load paper from a fresh package. Note: Paper absorbs moisture due to high humidity. Store paper in its original wrapper until you use it. b Resend the print job. Is the paper still curled?	Contact technical support .	The problem is solved.

Print irregularities



Action	Yes	No
Step 1 a Move the width and length guides in the tray to the correct positions for the size of the paper loaded in the tray. b Resend the print job. Do print irregularities still appear?	Go to step 2.	The problem is solved.
Step 2 From the printer control panel, set the paper size and type in the Paper menu to match the paper loaded in the tray. Do the printer settings match the type and weight of the paper loaded in the tray?	Go to step 3.	Specify the paper size and type from the tray settings to match the paper loaded in the tray.
Step 3 a Depending on your operating system, specify the paper type and weight from Printing Preferences or from the Print dialog. b Resend the print job. Do print irregularities still appear?	Go to step 4.	The problem is solved.
Step 4 Check if the paper loaded in the tray has texture or rough finishes. Are you printing on textured or rough paper?	From the printer control panel, set the paper texture in the Paper menu to match the paper loaded in the tray.	Go to step 5.
Step 5 a Load paper from a fresh package. Note: Paper absorbs moisture due to high humidity. Store paper in its original wrapper until you use it. b Resend the print job. Do print irregularities still appear?	Go to step 6.	The problem is solved.
Step 6 Replace the imaging unit, and then resend the print job. Do print irregularities still appear?	Contact technical support or your Dell printer dealer.	The problem is solved.

Print is too dark

Action	Yes	No
Step 1 a From the Quality menu on the printer control panel, reduce the toner darkness. Note: 8 is the factory default setting. b Resend the print job. Is the print still too dark?	Go to step 2.	The problem is solved.
Step 2 a From the printer control panel, set the paper type, texture and weight in the Paper menu to match the paper loaded in the tray. b Resend the print job. Is the tray set to the type, texture, and weight of the paper loaded?	Go to step 3.	Do one or more of the following: • Specify the paper type, texture, and weight from the tray settings to match the paper loaded in the tray. • Change the paper loaded in the tray to match the paper type, texture and weight specified in the tray settings.
Step 3 a Depending on your operating system, specify the paper type, texture and weight from Printing Preferences or from the Print dialog. b Resend the print job. Is the print still too dark?	Go to step 4.	The problem is solved.
Step 4 Check if the paper loaded in the tray has texture or rough finishes. Are you printing on textured or rough paper?	From the printer control panel, change the texture settings in the Paper Texture menu to match the paper you are printing on.	Go to step 5.

Action	Yes	No
Step 5 a Load paper from a fresh package. Note: Paper absorbs moisture due to high humidity. Store paper in its original wrapper until you use it. b Resend the print job. Is the print still too dark?	Go to step 6.	The problem is solved.
Step 6 Replace the imaging unit, and then resend the print job. Is the print still too dark?	Contact technical support .	The problem is solved.

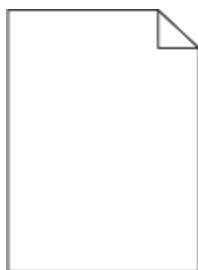
Print is too light



Action	Yes	No
Step 1 a From the Quality menu on the printer control panel, increase the toner darkness. Note: 8 is the factory default setting. b Resend the print job. Is the print still too light?	Go to step 2.	The problem is solved.
Step 2 From the printer control panel, set the paper type, texture, and weight in the Paper menu to match the paper loaded in the tray. Is the tray set to the type, texture, and weight of the paper loaded?	Go to step 3.	Change the paper type, texture, and weight to match the paper loaded in the tray.
Step 3 a Depending on your operating system, specify the paper type, texture, and weight from Printing Preferences or from the Print dialog. b Resend the print job. Is the print still too light?	Go to step 4.	The problem is solved.

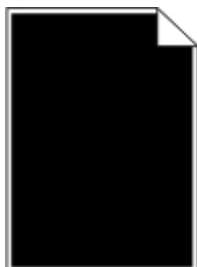
Action	Yes	No
Step 4 Make sure that the paper has no texture or rough finishes. Are you printing on textured or rough paper?	From the printer control panel, change the texture settings in the Paper Texture menu to match the paper you are printing on.	Go to step 5.
Step 5 a Load paper from a fresh package. Note: Paper absorbs moisture due to high humidity. Store paper in its original wrapper until you use it. b Resend the print job. Is the print still too light?	Go to step 6.	The problem is solved.
Step 6 a Redistribute the toner in the imaging unit. 1 Remove the toner cartridge, and then the imaging unit. 2 Firmly shake the imaging unit. Warning—Potential Damage: Do not expose the imaging unit to direct light for more than 10 minutes. Extended exposure to light may cause print quality problems. 3 Install the imaging unit, and then the cartridge. b Resend the print job. Is the print still too light?	Go to step 7.	The problem is solved.
Step 7 Replace the imaging unit, and then resend the print job. Is the print still too light?	Contact technical support .	The problem is solved.

Printer is printing blank pages



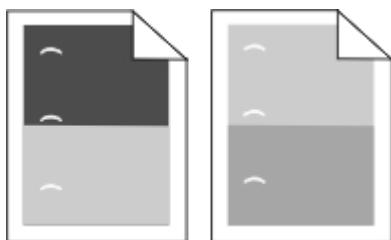
Action	Yes	No
Step 1 a Check if there is packing material left on the imaging unit. 1 Remove the toner cartridge, and then the imaging unit. 2 Check if the packing material is properly removed from the imaging unit. Warning—Potential Damage: Do not expose the imaging unit to direct light for more than 10 minutes. Extended exposure to light may cause print quality problems. 3 Reinstall the imaging unit, and then the cartridge. b Resend the print job. Is the printer still printing blank pages?	Go to step 2.	The problem is solved.
Step 2 a Redistribute the toner in the imaging unit. 1 Remove the toner cartridge, and then the imaging unit. 2 Firmly shake the imaging unit. Warning—Potential Damage: Do not expose the imaging unit to direct light for more than 10 minutes. Extended exposure to light may cause print quality problems. 3 Reinstall the imaging unit, and then the cartridge. b Resend the print job. Is the printer still printing blank pages?	Go to step 3.	The problem is solved.
Step 3 Replace the imaging unit, and then resend the print job. Is the printer still printing blank pages?	Contact technical support .	The problem is solved.

Printer is printing solid black pages



Action	Yes	No
Step 1 a Reinstall the imaging unit. 1 Remove the toner cartridge, and then the imaging unit. Warning—Potential Damage: Do not expose the imaging unit to direct light for more than 10 minutes. Extended exposure to light may cause print quality problems. 2 Install the imaging unit, and then the cartridge. b Resend the print job. Is the printer printing solid black pages?	Go to step 2.	The problem is solved.
Step 2 Replace the imaging unit, and then resend the print job. Is the printer printing solid black pages?	Contact technical support .	The problem is solved.

Repeating defects appear on prints



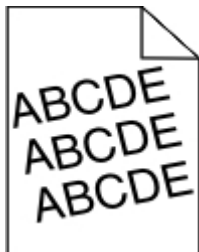
Action	Yes	No
Step 1 a Replace the imaging unit if the distance between the defects is equal to any of the following: • 47.8 mm (1.88 in.) • 96.8 mm (3.81 in.) • 28.5 mm (1.12 in.) b Resend the print job. Do repeating defects still appear on prints?	Go to step 2.	The problem is solved.
Step 2 a Replace the fuser if the distance between the defects is equal to either of the following: • 94.25 mm (3.71 in.) • 95.2 mm (3.75 in.) b Resend the print job. Do repeating defects still appear on prints?	Contact technical support .	The problem is solved.

Shadow images appear on prints



Action	Yes	No
Step 1 Load paper with the correct paper type and weight in the tray. Is paper with the correct paper type and weight loaded in the tray?	Go to step 2.	Load paper with the correct paper type and weight in the tray.
Step 2 From the printer control panel, set the paper type and weight in the Paper menu to match the paper loaded in the tray. Is the tray set to the type and weight of the paper loaded?	Go to step 3.	Change the paper loaded in the tray to match the paper type and weight specified in the tray settings.
Step 3 a Depending on your operating system, specify the paper type and weight from Printing Preferences or from the Print dialog. b Resend the print job. Do shadow images still appear on prints?	Go to step 4.	The problem is solved.
Step 4 Replace the imaging unit, and then resend the print job. Do shadow images still appear on prints?	Contact technical support .	The problem is solved.

Skewed print



Action	Yes	No
Step 1 a Move the width and length guides in the tray to the correct positions for the size of the paper loaded. b Resend the print job. Is the print still skewed?	Go to step 2.	The problem is solved.
Step 2 a Check if you are printing on a paper that is supported by the tray. b Resend the print job. Is the print still skewed?	Contact technical support .	The problem is solved.

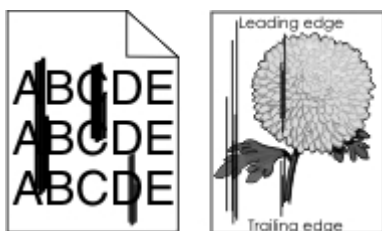
Streaked horizontal lines appear on prints



Action	Yes	No
Step 1 a Depending on your operating system, specify the tray or feeder from Printing Preferences or the Print dialog. b Resend the print job. Do streaked horizontal lines appear on prints?	Go to step 2.	The problem is solved.
Step 2 From the printer control panel, set the paper type and weight in the Paper menu to match the paper loaded in the tray. Do the paper type and weight match the type and weight of the paper in the tray?	Go to step 3.	Change the paper type and weight to match the paper loaded in the tray.
Step 3 a Load paper from a fresh package. Note: Paper absorbs moisture due to high humidity. Store paper in its original wrapper until you use it. b Resend the print job. Do streaked horizontal lines appear on prints?	Go to step 4.	The problem is solved.

Action	Yes	No
Step 4 a Reinstall the imaging unit. 1 Remove the toner cartridge, and then the imaging unit. Warning—Potential Damage: Do not expose the imaging unit to direct light for more than 10 minutes. Extended exposure to light may cause print quality problems. 2 Install the imaging unit, and then the cartridge. b Resend the print job. Do streaked horizontal lines appear on prints?	Go to step 5.	The problem is solved.
Step 5 Replace the imaging unit, and then resend the print job. Do streaked horizontal lines appear on prints?	Contact technical support .	The problem is solved.

Streaked vertical lines appear on prints



Action	Yes	No
Step 1 a Depending on your operating system, specify the paper type, texture, and weight from Printing Preferences or from the Print dialog. b Resend the print job. Do streaked vertical lines appear on prints?	Go to step 2.	The problem is solved.

Action	Yes	No
Step 2 From the printer control panel, set the paper texture, type, and weight in the Paper menu to match the paper loaded in the tray. Do the paper texture, type, and weight match the paper in the tray?	Go to step 3.	Do one or more of the following: - Specify the paper texture, type, and weight from the tray settings to match the paper loaded in the tray. - Change the paper loaded in the tray to match the paper texture, type, and weight specified in the tray settings.
Step 3 a Load paper from a fresh package. Note: Paper absorbs moisture due to high humidity. Store paper in its original wrapper until you use it. b Resend the print job. Do streaked vertical lines appear on prints?	Go to step 4.	The problem is solved.
Step 4 a Reinstall the imaging unit. - Remove the toner cartridge, and then the imaging unit. Warning—Potential Damage: Do not expose the imaging unit to direct light for more than 10 minutes. Extended exposure to light may cause print quality problems. - Install the imaging unit, and then the cartridge. b Resend the print job. Do streaked vertical lines appear on prints?	Go to step 5.	The problem is solved.
Step 5 Replace the imaging unit, and then resend the print job. Do streaked vertical lines appear on prints?	Contact technical support or your Dell printer dealer.	The problem is solved.

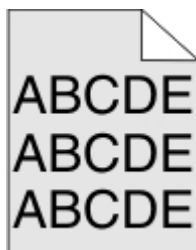
Transparency print quality is poor

Action	Yes	No
Step 1 From the printer control panel, set the paper type in the Paper menu to match the paper loaded in the tray. Is the paper type for the tray set to Transparency?	Go to step 2.	Set the paper type to Transparency.
Step 2 a Check if you are using a recommended type of transparency. b Resend the print job. Is the print quality still poor?	Contact technical support .	The problem is solved.

Toner specks appear on prints

Action	Yes	No
Replace the imaging unit, and then resend the print job. Do toner specks appear on prints?	Contact technical support .	The problem is solved.

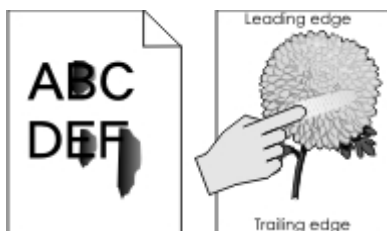
Toner fog or background shading appears on prints



Action	Yes	No
Step 1 a Reinstall the imaging unit. 1 Remove the toner cartridge, and then the imaging unit. Warning—Potential Damage: Do not expose the imaging unit to direct light for more than 10 minutes. Extended exposure to light may cause print quality problems. 2 Install the imaging unit, and then the cartridge. b Resend the print job. Did the toner fog or background shading disappear from the prints?	The problem is solved.	Go to step 2.

Action	Yes	No
Step 2 Replace the imaging unit, and then resend the print job. Did the toner fog or background shading disappear from the prints?	The problem is solved.	Contact technical support .

Toner rubs off



Action	Yes	No
Step 1 From the Paper menu on the printer control panel, check the paper type and weight. Do the paper type and weight match the paper loaded in the tray?	Go to step 2.	Specify the paper type and weight from the tray settings to match the paper loaded in the tray.
Step 2 Check if you are printing on paper with texture or rough finishes. Are you printing on textured or rough paper?	From the Paper menu on the printer control panel, set the paper texture.	Go to step 3.
Step 3 a From the Paper Weight menu on the printer control panel, set Heavy Weight to Heavy. b Resend the print job. Does the toner rub off?	Go to step 4.	The problem is solved.
Step 4 a Enable Quiet mode. From the printer control panel, navigate to: Settings > General Settings > Quiet Mode > On b Resend the print job. Does the toner rub off?	Contact technical support or your Dell printer dealer.	The problem is solved.

Uneven print density



Action	Yes	No
Replace the imaging unit, and then resend the print job.	Contact technical support .	The problem is solved.
Is the print density uneven?		

Vertical voids appear on prints



Action	Yes	No
Step 1 a Make sure your software program is using a correct fill pattern. b Resend the print job. Do vertical voids appear on prints?	Go to step 2.	The problem is solved.
Step 2 a From the printer control panel, set the paper type and weight in the Paper menu to match the paper loaded in the tray. b Resend the print job. Do vertical voids appear on prints?	Go to step 3.	The problem is solved.
Step 3 Check if you are using a recommended type of paper. a Load the indicated tray or feeder with a recommended type of paper. b Resend the print job. Do vertical voids appear on prints?	Go to step 4.	The problem is solved.

Action	Yes	No
Step 4 a Redistribute the toner in the imaging unit. 1 Remove the toner cartridge, and then the imaging unit. 2 Firmly shake the imaging unit. Warning—Potential Damage: Do not expose the imaging unit to direct light for more than 10 minutes. Extended exposure to light may cause print quality problems. 3 Reinstall the imaging unit, and then the cartridge. b Resend the print job. Do vertical voids appear on prints?	Contact technical support . Note: The laser scanning unit may be defective.	The problem is solved.

Embedded Web Server does not open

Action	Yes	No
Step 1 Make sure the printer IP address is correct. View the printer IP address: • From the printer 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 Note: An IP address appears as four sets of numbers separated by periods, such as 123.123.123.123. Is the printer IP address correct?	Go to step 2.	Type the correct printer IP address in the address field of your Web browser. Note: Depending on the network settings, you may need to type “ https:// ” instead of “ http:// ” before the printer IP address to access the Embedded Web Server.
Step 2 Check if the printer is turned on. Is the printer turned on?	Go to step 3.	Turn on the printer.
Step 3 Check if the network connection is working. Is the network connection working?	Go to step 4.	Contact your system support person.
Step 4 Make sure the cable connections to the printer and print server are secure. For more information, see the setup documentation that came with the printer. Are the cable connections to the printer and print server secure?	Go to step 5.	Tighten the cable connection.

Action	Yes	No
Step 5 Temporarily disable the Web proxy servers. Note: Proxy servers may block or restrict you from accessing certain Web sites including the Embedded Web Server. Are the Web proxy servers disabled?	Go to step 6.	Contact your system support person.
Step 6 Access the Embedded Web Server again by typing the correct IP address in the address field. Did the Embedded Web Server open?	The problem is solved.	Contact technical support .

Contacting technical support

When you call technical support, describe the problem you are experiencing, the message on the display, and the troubleshooting steps you have already taken to find a solution.

You need to know your printer model type and the service tag number or express service code. For more information, see the label at the back of the printer. The service tag number is listed on the menu settings page.

For more information, check the Dell Support Web site at <http://support.dell.com>.

Appendix

Dell Technical Support Policy

Technician-assisted technical support requires the cooperation and participation of the customer in the troubleshooting process and provides for restoration of the Operating System, application software and hardware drivers to the original default configuration as shipped from Dell, as well as the verification of appropriate functionality of the printer and all Dell-installed hardware. In addition to this technician assisted technical support, online technical support is available at Dell Support. Additional technical support options may be available for purchase.

Dell provides limited technical support for the printer and any Dell-installed software and peripherals. Support for third-party software and peripherals is provided by the original manufacturer, including those purchased and/or installed through Software & Peripherals (DellWare), ReadyWare, and Custom Factory Integration (CFI/DellPlus).

Contacting Dell

You can contact Dell electronically using the following address: www.dell.com/contactdell.

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.	770
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.	55
Sleep Mode	The product is in a high-level energy-saving mode.	2.9
Hibernate	The product is in a low-level energy-saving mode.	0.5
Off	The product is plugged into an electrical outlet, but the power switch is turned off.	0.1

The power consumption levels listed in the previous table represent time-averaged measurements. Instantaneous power draws may be substantially higher than the average.

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):	20
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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
- Using the Sleep/Hibernate button

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 calculate the total product energy usage. Since power consumption claims are provided in power units of Watts, the power consumption should be multiplied by the time the product spends in each mode in order to calculate energy usage. The total product energy usage is the sum of each mode's energy usage.

Warranty and Return Policy

Dell Inc. ("Dell") manufactures its hardware products from parts and components that are new or equivalent to new in accordance with industry-standard practices. For information about the Dell warranty for your printer, refer to the *Product Information Guide*.

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