HP Color LaserJet CP1510 Series Printer

User Guide

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User Guide

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Product comparison

HP Color LaserJet CP1510 Series Printer

- Prints up to 12 pages per minute (ppm) on letter-size media or A4-size media in monochrome (black and white), and 8 ppm in color

- Single-sheet priority feed slot (tray 1) and 150-sheet input tray (tray 2)

- Hi-Speed universal serial bus (USB) 2.0 port

- Built-in networking to connect to 10Base-T/100Base-TX networks

- Photo imaging model only (ni)

  ◦ Photo memory card slots

  ◦ PictBridge slot

Product features

Print	• Prints letter-size and A4-size pages at speeds up to 8 pages per minute (ppm) in color and 12 ppm in black and white.
	• Prints at 600 dots per inch (dpi).
	• Includes adjustable settings to optimize print quality.
	• The print cartridges use HP ColorSphere toner. For information about the number of pages the cartridges can print, see www.hp.com/go/pageyield. Actual yield depends on specific use.
Memory	• Includes 96-megabyte (MB) random-access memory (RAM).
	For information about upgrading the product memory, see Work with memory on page 88.
Supported operating systems	• Windows 2000
	• Windows XP Home/Professional
	• Windows Server 2003 (32-bit only)
	• Windows Vista
	• Mac OS X V10.28 and later
Paper handling	• Tray 1 single-sheet priority feed slot.
	• Tray 2 holds up to 150 sheets of print media or 10 envelopes.
	• Output bin holds up to 125 sheets of print media.
Printer driver features	• ImageREt 3600 produces 3600 dpi print quality for fast, high-quality printing of business text and graphics.
Interface connections	• Includes a Hi-Speed USB 2.0 port
	• Built-in networking to connect to 10Base-T/100Base-TX networks.
Environmental features	• To determine the ENERGY STAR® qualification status for this product see the Product Data Sheet or Specifications Sheet.

Economical printing	● Provides N-up printing (printing more than one page on a sheet).
	● The printer driver provides the option to manually print on both sides.
Supplies	● Uses print cartridges with HP ColorSphere toner.
Accessibility	● Online user guide is compatible with text screen-readers.
	● Print cartridges can be installed and removed by using one hand.
	● All doors and covers can be opened by using one hand.
PictBridge USB port (HP Color LaserJet CP1518ni only)	● Enables direct connection of a compatible camera or camcorder to the product for direct printing of recorded images.
Memory card slots (HP Color LaserJet CP1518ni only)	The following memory cards are supported: ● CompactFlash (CF) Type 1 and Type 2 ● Memory Stick, Memory Stick PRO, and Memory Stick Duo ● MultiMedia Card (MMC) ● Secure Digital (SD) ● xD Picture Card

Walkaround

Front view
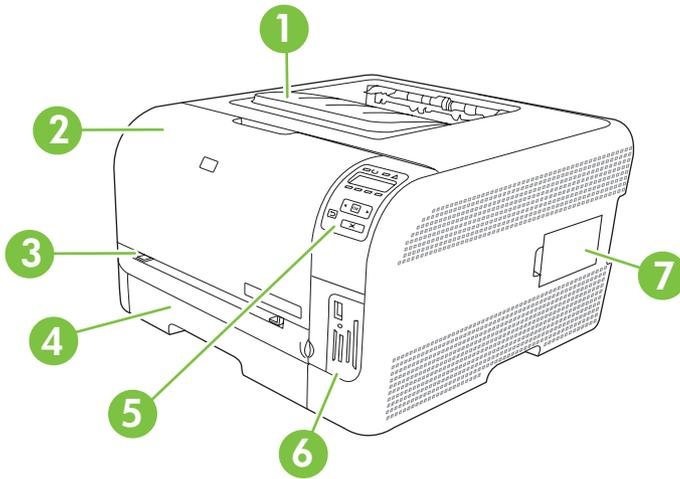
1	Output bin (holds 125 sheets of standard paper)
2	Front door (provides access to the print cartridges)
3	Tray 1 (single-sheet priority feed slot) and jam-access door
4	Tray 2 (holds 150 sheets of standard paper)
5	Control panel
6	Memory card slots and PictBridge port (HP Color LaserJet CP1518ni)
7	DIMM door (for adding additional memory)

Back and side view
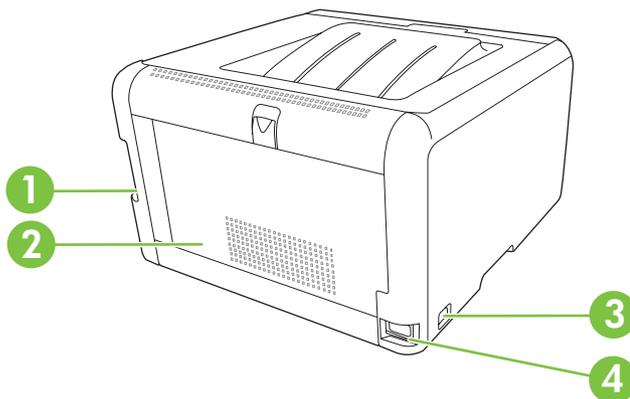
1	Hi-Speed USB 2.0 port and network port
2	Rear door (for jam access)

3	Power switch
4	Power connection

Control-panel walkaround

The product has the following items on the control panel.

1	Ready light (green): The Ready light is on when the product is ready to print. It blinks when the product is receiving print data.
2	Attention light (amber): The Attention light blinks when a print cartridge is empty or the product requires user attention. **NOTE:** The Attention light does *not* blink if more than one print cartridge is empty.
3	**Control-panel display**: The display provides information about the product. Use the menus on the display to establish product settings. See Use the control-panel menus on page 44.
4	**Print cartridge status gauges**: These gauges show the consumption level for each print cartridge (black, yellow, cyan, and magenta). If the consumption level is unknown, a ? symbol appears. This can occur in the following circumstances: ● The print cartridge is missing or installed incorrectly. ● The print cartridge is defective. ● The print cartridge might not be an HP cartridge.
5	Left arrow (◄) button: Use this button to navigate through the menus or to decrease a value that appears on the display.
6	OK button: Press the OK button for the following actions: ● Open the control-panel menus. ● Open a submenu displayed on the control-panel display. ● Select a menu item. ● Clear some errors. ● Begin a print job in response to a control-panel prompt (for example, when the message **[OK] to print** appears on the control-panel display).
7	Right arrow (►) button: Use this button to navigate through the menus or to increase a value that appears on the display.

8	Back arrow (↰) button: Use this button for the following actions:
	● Exit the control-panel menus.
	● Scroll back to a previous menu in a submenu list.
	● Scroll back to a previous menu item in a submenu list (without saving changes to the menu item).
9	Cancel Job (X) button: Press this button to cancel a print job whenever the attention light is blinking or to exit the control-panel menus.

Model and serial numbers

The model number and serial number are listed on an identification label located inside the front door.

The label contains information about the country/region of origin and the revision level, manufacturing date, production code, and production number of the product. The label also contains power rating and regulatory information.
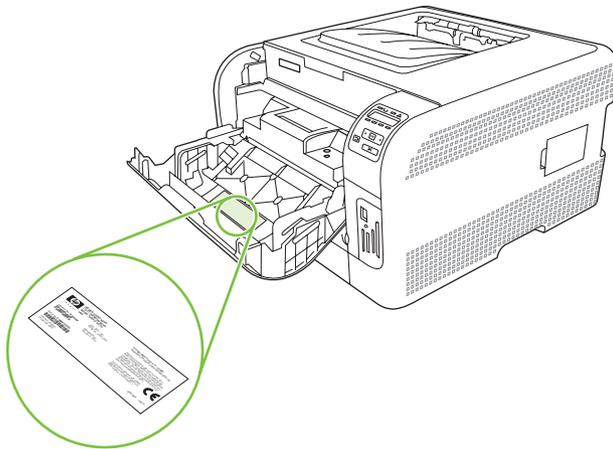
2   Software

- [Product software](#)
- [Supported operating systems and printer drivers](#)
- [Additional drivers](#)
- [Priority for print settings](#)
- [Open the printer driver and change the print settings](#)
- [Remove software from Windows operating systems](#)
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Product software

The printing-system software is included with the product. See the getting started guide for installation instructions.

The printing system includes software for end users and network administrators, and printer drivers for access to the product features and communication with the computer.

NOTE: For a list of the network environments that the network-administrator software components support, see Network configuration on page 23.

For a list of printer drivers and updated HP product software, go to www.hp.com/go/ljcp1510series_software.

Supported operating systems and printer drivers

The product uses the PCL 6 and HP postscript level 3 emulation PDL drivers.

Operating system[1]	Network support	PCL 6	HP postscript level 3 emulation
Windows 2000	✔	✔	✔
Windows XP Home/Professional	✔	✔	✔
Windows Server 2003	✔	✔	✔
Windows Vista	✔	✔	✔
Mac OS X V10.28 and later	✔		✔

[1] Not all product features are available from all drivers or operating systems.

Additional drivers

The following drivers are not included on the CD, but are available from www.hp.com/go/ljcp1510series_software.

● Linux drivers

Priority for print settings

Changes to print settings are prioritized depending on where the changes are made:

NOTE: The names of commands and dialog boxes might vary depending on your software program.

- **Page Setup dialog box**: Click **Page Setup** or a similar command on the **File** menu of the program you are working in to open this dialog box. Settings changed here override settings changed anywhere else.

- **Print dialog box**: Click **Print**, **Print Setup**, or a similar command on the **File** menu of the program you are working in to open this dialog box. Settings changed in the **Print** dialog box have a lower priority and do *not* override changes made in the **Page Setup** dialog box.

- **Printer Properties dialog box (printer driver)**: Click **Properties** in the **Print** dialog box to open the printer driver. Settings changed in the **Printer Properties** dialog box do not override settings anywhere else in the printing software.

- **Default printer driver settings**: The default printer driver settings determine the settings used in all print jobs, *unless* settings are changed in the **Page Setup**, **Print**, or **Printer Properties** dialog boxes.

Open the printer driver and change the print settings

Operating System	To change the settings for all print jobs until the software program is closed	To change the default settings for all print jobs	To change the device configuration settings
Windows 2000, XP, Server 2003, and Vista	1. On the **File** menu in the software program, click **Print**. 2. Select the driver, and then click **Properties** or **Preferences**. The steps can vary; this procedure is most common.	1. Click **Start**, click **Settings**, and then click **Printers** (Windows 2000) or **Printers and Faxes** (Windows XP Professional and Server 2003) or **Printers and Other Hardware Devices** (Windows XP Home). For Windows Vista, click **Start**, click **Control Panel**, and then click **Printer**. 2. Right-click the driver icon, and then select **Printing Preferences**.	1. Click **Start**, click **Settings**, and then click **Printers** (Windows 2000) or **Printers and Faxes** (Windows XP Professional and Server 2003) or **Printers and Other Hardware Devices** (Windows XP Home). For Windows Vista, click **Start**, click **Control Panel**, and then click **Printer**. 2. Right-click the driver icon, and then select **Properties**. 3. Click the **Device Settings** tab.
Mac OS X V10.28 and later	1. On the **File** menu, click **Print**. 2. Select the driver, and then click **Properties** or **Preferences**. The steps can vary; this procedure is most common.	1. On the **File** menu, click **Print**. 2. Change the settings that you want on the various pop-up menus. 3. On the **Presets** pop-up menu, click **Save as** and type a name for the preset. These settings are saved in the **Presets** menu. To use the new settings, you must select the saved preset option every time you open a program and print.	1. Open **System Preferences**. 2. Select **Print & Fax**. 3. Select the product from the printer list. 4. Select **Printer Setup**.

Remove software from Windows operating systems

1. Click **Start**, and then click **All Programs**.

2. Click **HP**, and then click **HP Color LaserJet CP1510 Series**.

3. Click **Uninstall**, and then follow the onscreen instructions to remove the software.

Utilities

Software for Windows

HP ToolboxFX

HP ToolboxFX is a software program that you can use for the following tasks:

- Checking the product status

- Checking the supplies status and ordering supplies online

- Setting up alerts

- Setting up e-mail notification for certain product and supplies events

- Viewing and changing product settings

- Viewing product documentation

- Gaining access to troubleshooting and maintenance tools

You can view HP ToolboxFX when the product is directly connected to your computer or is connected to a network. To use HP ToolboxFX, perform a recommended software installation.

Software for Macintosh

The HP installer provides PostScript Printer Description (PPD) files, Printer Dialog Extensions (PDEs), and the configure device software for use with Macintosh computers.

PostScript Printer Description (PPD) files

The PPD, in combination with the Apple PostScript printer drivers, provides access to product features. An installation program for the PPD and other software is provided on the product CD-ROM.

Configuring a product using a Macintosh

For information about configuring the product using a Macintosh, see Configure the product using a Macintosh on page 82.

Status Alerts software

The Status Alerts software provides information about the current status of the product.

The software also provides pop-up alerts when certain events occur, such as an empty tray or a problem with the product. The alert includes information about solving the problem.

Software for networks

HP Web Jetadmin

HP Web Jetadmin is a browser-based management tool for network-connected printers within your intranet. It should be installed only on the network administrator's computer.

To download a current version of HP Web Jetadmin and for the latest list of supported host systems, visit www.hp.com/go/webjetadmin.

When installed on a host server, any client can gain access to HP Web Jetadmin by using a supported Web browser (such as Microsoft® Internet Explorer 6.*x* or Netscape Navigator 7.*x* or later) and navigating to the HP Web Jetadmin host.

Embedded Web server

The HP Color LaserJet CP1510 Series Printer is equipped with an embedded Web server, which provides access to information about product and network activities. This information appears in a Web browser, such as Microsoft Internet Explorer, Netscape Navigator, or Macintosh OS Safari.

The embedded Web server resides on the product. It is not loaded on a network server. No special software is installed or configured, but you must have a supported Web browser on your computer.

NOTE: Macintosh users can open the EWS by clicking the **Utility** button when viewing the print queue. This will start a Web browser, such as Safari, which allows the user to access the EWS. The EWS can also be accessed directly by typing the network IP address or DNS name of the product into the Web browser.

HP USB EWS Gateway software, which is automatically installed, also allows a Web browser to access the product if the product is connected using a USB cable. Click the **Utility** button when using a USB connection to access the EWS though the Web browser.

For a complete explanation of the features and functionality of the embedded Web server, see Use the embedded Web server on page 79.

Linux

For information, go to www.hp.com/go/linuxprinting.

3 Paper and print media

- [Understand paper and print media use](#)
- [Supported paper and print media sizes](#)
- [Supported paper types and tray capacity](#)
- [Special paper or print media guidelines](#)
- [Load paper and print media](#)

Understand paper and print media use

This product supports a variety of paper and other print media in accordance with the guidelines in this user guide. Paper or print media that does not meet these guidelines might cause the following problems:

- Poor print quality

- Increased jams

- Premature wear on the product, requiring repair

For best results, use only HP-brand paper and print media designed for laser printers or multiuse. Do not use paper or print media made for inkjet printers. Hewlett-Packard Company cannot recommend the use of other brands of media because HP cannot control their quality.

It is possible for paper to meet all of the guidelines in this user guide and still not produce satisfactory results. This might be the result of improper handling, unacceptable temperature and/or humidity levels, or other variables over which Hewlett-Packard has no control.

△ **CAUTION:** Using paper or print media that does not meet Hewlett-Packard's specifications might cause problems for the product, requiring repair. This repair is not covered by the Hewlett-Packard warranty or service agreements.

Supported paper and print media sizes

This product supports a number of paper sizes, and it adapts to various media.

NOTE: To obtain best print results, select the appropriate paper size and type in your print driver before printing.

Table 3-1 Supported paper and print media sizes

Size	Dimensions	Tray 1	Tray 2
Letter	216 x 279 mm (8.5 x 11 inches)	✔	✔
Legal	216 x 356 mm (8.5 x 14 inches)	✔	✔
A4	210 x 297 mm (8.27 x 11.69 inches)	✔	✔
Executive	184 x 267 mm (7.24 x 10.51 inches)	✔	✔
A3	297 x 420 mm (11.69 x 16.54 inches)		
A5	148 x 210 mm (5.83 x 8.27 inches)	✔	✔
A6	105 x 148 mm (4.13 x 5.83 inches)	✔	✔
B4 (JIS)	257 x 364 mm (10.12 x 14.33 inches)		
B5 (JIS)	182 x 257 mm (7.17 x 10.12 inches)	✔	✔
B5 (ISO)	176 x 250 mm (6.93 x 9.84 inches)		
B6 (ISO)	125 x 176 mm (4.92 x 6.93 inches)		
16k	184 x 260 mm (7.24 x 10.23 inches)		
	195 x 270 mm (7.68 x 10.62 inches)	✔	✔
	197 x 273 mm (7.75 x 10.75 inches)		
8.5 x 13	216 x 330 mm (8.5 x 13 inches)	✔	✔
4 x 6	107 x 152 mm (4 x 6 inches)	✔	✔
5 x 8	127 x 203 mm (5 x 8 inches)	✔	✔
10 x 15 cm	100 x 150 mm (3.9 x 5.9 inches)	✔	✔
Custom	(76 - 216) x (127 - 356) mm ((3 - 8.5) x (5 - 14) inches)	✔	✔

Table 3-2 Supported envelopes and postcards

Size	Dimensions	Tray 1	Tray 2
Envelope #10	105 x 241 mm (4.13 x 9.49 inches)	✔	✔
Envelope DL	110 x 220 mm (4.33 x 8.66 inches)	✔	✔

Table 3-2 Supported envelopes and postcards (continued)

Size	Dimensions	Tray 1	Tray 2
Envelope C5	162 x 229 mm (6.93 x 9.84 inches)	✓	✓
Envelope B5	176 x 250 mm (6.7 x 9.8 inches)	✓	✓
Envelope Monarch	98 x 191 mm (3.9 x 7.5 inches)	✓	✓
Postcard	100 x 148 mm (3.94 x 5.83 inches)	✓	✓
Double postcard	148 x 200 mm (5.83 x 7.87 inches)	✓	✓

Supported paper types and tray capacity

Media type	Dimensions[1]	Weight	Capacity[2]	Paper orientation
Paper, including the following types: ● Plain ● Letterhead ● Color ● Preprinted ● Prepunched ● Recycled	Minimum: 76 x 127 mm (3 x 5 inches) Maximum: 216 x 356 mm (8.5 x 14 inches)	60 to 90 g/m^2 (16 to 24 lb)	Tray 1: single sheet only Tray 2: up to 150 sheets of 75 g/m^2 (20 lb bond)	Side to be printed on face-up, with the top edge at the back of the tray
Thick paper	Same as for paper	Up to 200 g/m^2 (53 lb)	Tray 1: single sheet only Tray 2: up to 15 mm (0.6 inches) stack height	Side to be printed on face-up, with the top edge at the back of the tray
Cover paper	Same as for paper	Up to 200 g/m^2 (53 lb)	Tray 1: single sheet only Tray 2: up to 15 mm (.59 inch) stack height	Side to be printed on face-up, with the top edge at the back of the tray
Glossy paper Photo paper	Same as for paper	Up to 220 g/m^2 (59 lb)	Tray 1: single sheet only Tray 2: up to 15 mm (.59 inch) stack height	Side to be printed on face-up, with the top edge at the back of the tray
Transparencies	A4 or Letter	Thickness: 0.12 to 0.13 mm (4.7 to 5.1 mils)	Tray 1: single sheet only Tray 2: up to 50 sheets	Side to be printed on face-up, with the top edge at the back of the tray
Labels[3]	A4 or Letter	Thickness: up to 0.23 mm (9 mils)	Tray 1: single sheet only Tray 2: up to 50 sheets	Side to be printed on face-up, with the top edge at the back of the tray
Envelopes	● COM 10 ● Monarch ● DL ● C5 ● B5	Up to 90 g/m^2 (24 lb)	Tray 1: single envelope only Tray 2: up to 10 envelopes	Side to be printed on face-up, with the stamp-end at the back of the tray
Postcards or index cards	100 x 148 mm (3.9 x 5.8 inches)		Tray 1: single sheet only Tray 2: up to 50 sheets	Side to be printed on face-up, with the top edge at the back of the tray

[1] The product supports a wide range of standard and custom sizes of print media. Check the printer driver for supported sizes.

[2] Capacity can vary depending on media weight and thickness, and environmental conditions.

[3] Smoothness: 100 to 250 (Sheffield)

Special paper or print media guidelines

This product supports printing on special media. Use the following guidelines to obtain satisfactory results. When using special paper or print media, be sure to set the type and size in your print driver to obtain the best print results.

△ **CAUTION:** HP LaserJet printers use fusers to bond dry toner particles to the paper in very precise dots. HP laser paper is designed to withstand this extreme heat. Using inkjet paper not designed for this technology could damage your printer.

Media type	Do	Do not
Envelopes	● Store envelopes flat. ● Use envelopes where the seam extends all the way to the corner of the envelope. ● Use peel-off adhesive strips that are approved for use in laser printers.	● Do not use envelopes that are wrinkled, nicked, stuck together, or otherwise damaged. ● Do not use envelopes that have clasps, snaps, windows, or coated linings. ● Do not use self-stick adhesives or other synthetic materials.
Labels	● Use only labels that have no exposed backing between them. ● Use Labels that lie flat. ● Use only full sheets of labels.	● Do not use labels that have wrinkles or bubbles, or are damaged. ● Do not print partial sheets of labels.
Transparencies	● Use only transparencies that are approved for use in laser printers. ● Place transparencies on a flat surface after removing them from the product.	● Do not use transparent print media not approved for laser printers.
Letterhead or preprinted forms	● Use only letterhead or forms approved for use in laser printers.	● Do not use raised or metallic letterhead.
Heavy paper	● Use only heavy paper that is approved for use in laser printers and meets the weight specifications for this product.	● Do not use paper that is heavier than the recommended media specification for this product unless it is HP paper that has been approved for use in this product.
Glossy or coated paper	● Use only glossy or coated paper that is approved for use in laser printers.	● Do not use glossy or coated paper designed for use in inkjet products.

Load paper and print media

Load tray 1

📝 **NOTE:** Place the media into tray 1 with the side to be printed on face-up and the top toward the product.

1. Place a single sheet of media into the tray 1 slot, and slide the paper guides so that they are against the sheet.

2. Feed the sheet into the tray as far as it will go.
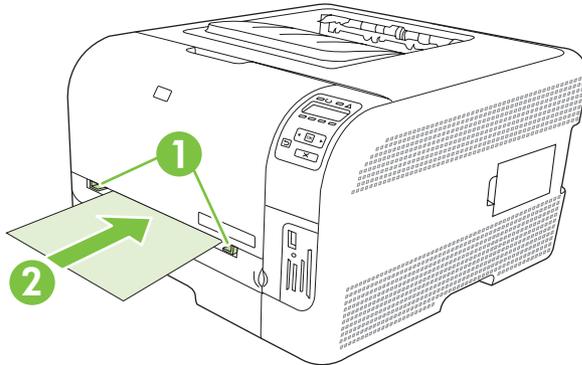
Load tray 2

1. Pull the tray out of the product and remove any paper.
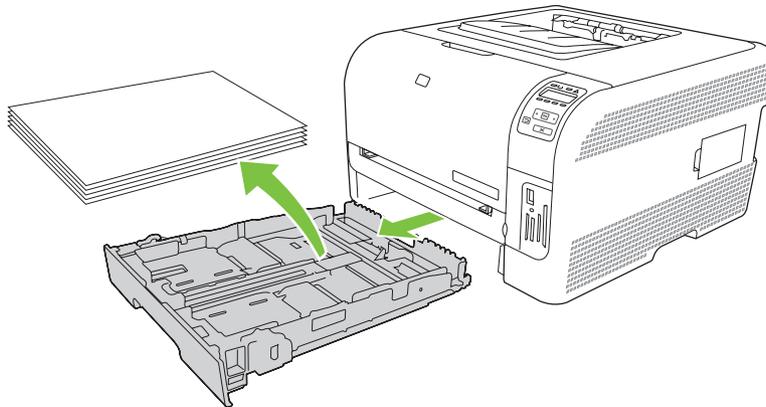
2. Slide open the paper length and width guides.
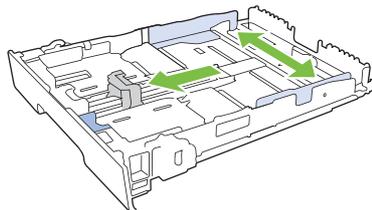
- To load Legal-size paper, extend the tray by pressing and holding the extension tab while pulling the front of the tray toward you.
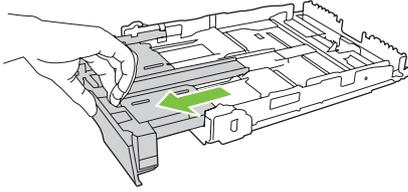
NOTE: When it is loaded with Legal-size paper, the tray extends from the front of the product approximately 51 mm (2 inches).

3. Place the paper in the tray and make sure that it is flat at all four corners. Slide the paper length and width guides so that they are against the stack of paper.
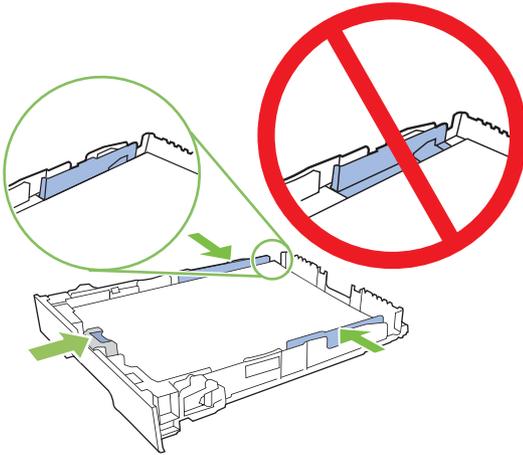
4. Push down on the paper to make sure that the paper stack is below the paper limit tabs on the side of the tray.
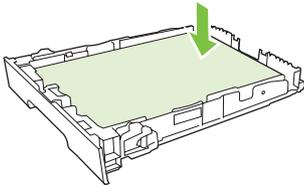
5. Slide the tray into the product.
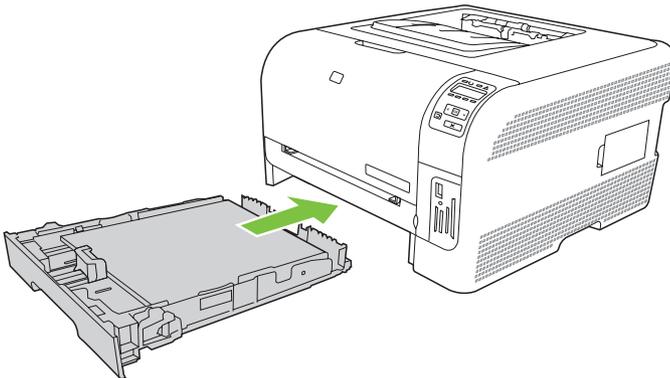
4   I/O configuration

- USB connection
- Network connection
- Network configuration

USB connection

This product supports a USB 2.0 connection. You must use an A-to-B type USB cable for printing.
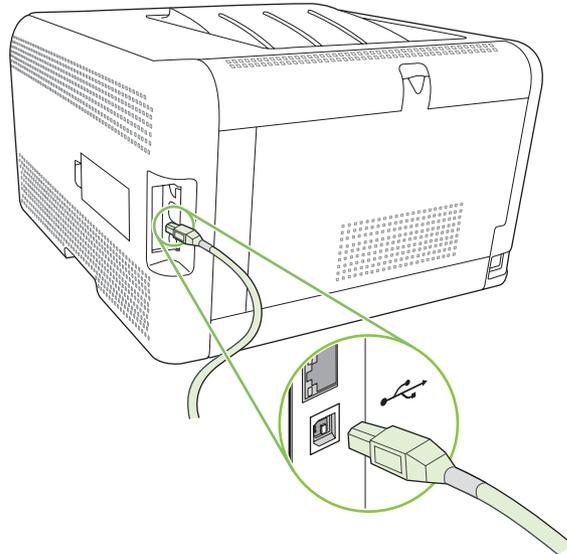
Network connection

This product supports a 10/100 network connection. Plug the network cable into the product and your network connection.
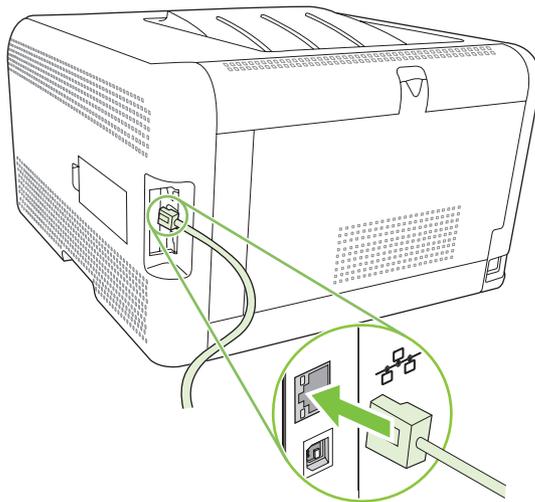
Network configuration

To configure network parameters on the product, use the product control panel, the embedded Web server, or, for Windows operating systems, the HP ToolboxFX software.

Set up the product and use it on the network

Hewlett-Packard recommends that you use the HP software installer on the product CD-ROM to set up printer drivers for networks.

Set up a network port-connected configuration (direct mode or peer-to-peer printing)

In this configuration, the product is connected directly to the network, and all computers on the network print directly to the product.

1. Connect the product directly to the network by inserting a network cable into the product network port.

2. Use the control panel to print a Configuration page. See .

3. Insert the product CD-ROM into your computer. If the software installer does not start, navigate to the SETUP.EXE file on the CD-ROM and double-click the file.

4. Click **Recommended Install**.

5. On the **Welcome** screen, click **Next**.

6. On the **Installer updates** screen, click **Yes** to search for installer updates on the Web.

7. For Windows 2000/XP/Vista, on the **Installation Options** screen, choose the installation option. Hewlett-Packard recommends a typical installation, if your system supports it.

8. On the **License Agreement** screen, read the license agreement, indicate that you accept the terms, and then click **Next**.

9. For Windows 2000/XP/Vista, on the **HP Extended Capabilities** screen, choose whether you want extended capabilities, and then click **Next**.

10. On the **Destination Folder** screen, choose the destination folder, and then click **Next**.

11. On the **Ready to Install** screen, click **Next** to begin installation.

    📝 **NOTE:** If you want to change your settings, instead of clicking **Next**, click **Back** to return to previous screens, and then change the settings.

12. On the **Connection Type** screen, select **Through the network**, and then click **Next**.

13. On the **Identify Printer** screen, search for the product, or specify the hardware or IP address listed on the Configuration page you printed earlier. In most cases an IP address is assigned, but you can change it by clicking **Specify the product by Address** on the **Identify Printer** screen. Click **Next**.

14. Allow the installation process to complete.

Use the embedded Web server or the HP ToolboxFX

You can use the embedded Web server (EWS) or HP ToolboxFX to view or change the IP configuration settings. To access the embedded Web server, type the IP address for the product in the address line of the browser.

NOTE: Macintosh users can access the EWS by clicking the **Utility** button when viewing the print queue. This will start a Web browser, such as Safari, which allows the user to access the EWS. The EWS can also be accessed directly by typing the network IP address or DNS name of the product into the Web browser.

From the **Networking** tab (EWS) or the **Network Settings** tab (HP ToolboxFX), you can change the following configurations:

- Host Name

- Manual IP Address

- Manual Subnet Mask

- Manual Default Gateway

NOTE: Changing the network configuration might require you to change the browser URL before you can communicate with the product again. The product will be unavailable for a few seconds while the network resets.

Set a system password

Use HP ToolboxFX or the embedded Web server to set a system password.

1. In the embedded Web server, click the **Settings** tab.

   In HP ToolboxFX, click the **Device Settings** tab.

   NOTE: If a password has already been set, you are prompted for it. Type the password, and then click **Apply**.

2. Click **Password**.

3. In the **Password** box, type the password that you want to set, and then in the **Confirm password** box, type the same password again to confirm your choice.

4. Click **Apply** to save the password.

Use the product control panel

Configure the TC/IP settings

You can configure the IP address manually or automatically.

Manual configuration

1. On the control-panel menu, press OK.

2. Use the Left arrow (◄) or the Right arrow (►) button to select **Network config.**, and then press OK.

3. Use the Left arrow (◄) or the Right arrow (►) button to select **TCP IP config**, and then press OK.

4. Use the Left arrow (◄) or the Right arrow (►) button to select **Manual**, and then press OK.

5. Press the Right arrow (◄) button to increase the value for the first section of the IP address. Press the Left arrow (◄) button to decrease the value. When the value is correct, press OK.

6. If the address is correct, use the Left arrow (◄) or the Right arrow (►) button to select **Yes**, and then press OK. Repeat step 5 for the subnet mask and default gateway settings.

   -or-

   If the IP address is incorrect, use the Left arrow (◄) or the Right arrow (►) button to select **No**, and then press OK. Repeat step 5 to establish the correct IP address, and then repeat step 5 for the subnet mask and default gateway settings.

Automatic configuration

NOTE: Automatic is the default Network config. TCP IP config setting.

1. On the control-panel menu, press OK.

2. Use the Left arrow (◄) or the Right arrow (►) button to select **Network config.**, and then press OK.

3. Use the Left arrow (◄) or the Right arrow (►) button to select **TCP IP config**, and then press OK.

4. Use the Left arrow (◄) or the Right arrow (►) button to select **Automatic**, and then press OK.

   It might take several minutes before the automatic IP address is ready for use.

NOTE: To disable or enable specific automatic IP modes (such as BOOTP, DHCP, or AutoIP), use the embedded Web server or HP ToolboxFX.

Show or hide the IP address on the control panel

NOTE: When **Show IP address** is **On**, the IP address will alternately appear on the control-panel display with the print-cartridge-status gauges.

1. On the control-panel menu, press OK.

2. Use the Left arrow (◄) or the Right arrow (►) button to select **Network config.**, and then press OK.

3. Use the Left arrow (◄) or the Right arrow (►) button to select **Show IP address**, and then press OK.

4. Use the Left arrow (◄) or the Right arrow (►) button to select **Yes** or **No**, and then press OK.

Set memory card sharing

1. On the control-panel menu, press OK.

2. Use the Left arrow (◄) or the Right arrow (►) button to select **Network config.**, and then press OK.

3. Use the Left arrow (◄) or the Right arrow (►) button to select **Memory card**, and then press OK.

4. Use the Left arrow (◄) or the Right arrow (►) button to select **On** or **Off**, and then press OK.

Set automatic crossover

1. On the control-panel menu, press OK.

2. Use the Left arrow (◄) or the Right arrow (►) button to select **Network config.**, and then press OK.

3. Use the Left arrow (◄) or the Right arrow (►) button to select **Automatic crossover**, and then press OK.

4. Use the Left arrow (◄) or the Right arrow (►) button to select **On** or **Off**, and then press OK.

Set network services

1. On the control-panel menu, press OK.

2. Use the Left arrow (◄) or the Right arrow (►) button to select **Network config.**, and then press OK.

3. Use the Left arrow (◄) or the Right arrow (►) button to select **Network services**, and then press OK.

4. Use the Left arrow (◄) or the Right arrow (►) button to select **IPv4** or **IPv6**, and then press OK.

5. Use the Left arrow (◄) or the Right arrow (►) button to select **On** or **Off**, and then press OK.

Restore defaults (network settings)

1. On the control-panel menu, press OK.

2. Use the Left arrow (◄) or the Right arrow (►) button to select **Network config.**, and then press OK.

3. Use the Left arrow (◄) or the Right arrow (►) button to select **Restore defaults**, and then press OK.

4. Press OK to restore the factory network default settings. Press X to exit the menu without restoring the factory network default settings.

Supported network protocols

The product supports the TCP/IP network protocol, the most widely used and accepted networking protocol. For more information, see . The following table lists the supported networking services and protocols.

Table 4-1 Printing

Service name	Description
port9100 (Direct Mode)	Printing service
LPD (Line printer daemon)	Printing service

Table 4-2 Network device discovery

Service name	Description
SLP (Service Location Protocol)	Device-discovery protocol, used to help find and configure network devices. Used primarily by Microsoft-based programs. **NOTE:** Used primarily by the HP Software Installer to discover a device on the network.
Bonjour	Device-discovery protocol, used to help find and configure network devices. Used primarily by Apple Macintosh-based programs.

Table 4-3 Messaging and management

Service name	Description
HTTP (Hyper Text Transfer Protocol)	Allows Web browsers to communicate with embedded Web server.
EWS (embedded Web server)	Allows a user to manage the device through a Web browser.
SNMP (Simple Network Management Protocol)	Used by network applications for device management. SNMP v1 and standard MIB-II (Management Information Base) objects are supported.

Table 4-4 IP addressing

Service name	Description
DHCP (Dynamic Host Configuration Protocol)	For automatic IP address assignment. The DHCP server provides the device with an IP address without requiring the user to intervene.
BOOTP (Bootstrap Protocol)	For automatic IP address assignment. The BOOTP server provides the device with an IP address after the administrator inputs the product MAC hardware address on the BOOTP server.
Auto IP	For automatic IP address assignment. If neither a DHCP server nor a BOOTP server is present, the product uses this service to generate a unique IP address.

TCP/IP

Similar to a common language that people use to communicate with each other, TCP/IP (Transmission Control Protocol/Internet Protocol) is a suite of protocols designed to define the way computers and other devices communicate with each other over a network.

Internet Protocol (IP)

When information is sent across the network, the data is broken down into small packets. Each packet is sent independently. Each packet is encoded with IP information, such as the IP address of the sender and receiver. IP packets can be routed over routers and gateways: devices that connect a network with other networks.

IP communications require no connection. When IP packets are sent, they might not arrive at their destination in the correct sequence. However, higher-level protocols and programs place the packets in the correct sequence, so IP communications are efficient.

Each node or device that communicates on the network requires an IP address.

Transmission Control Protocol (TCP)

TCP breaks the data into packets and recombines them on the receiving end by providing a connection-oriented, reliable, and guaranteed delivery service to another node on the network. When data packets are received at their destination, TCP calculates a checksum for each packet to verify that the data is not corrupt. If the data in the packet has been corrupted during transmission, TCP discards the packet and requests that the packet be resent.

IP address

Every host (workstation or node) on an IP network requires a unique IP address for each network interface. This address is a software address that is used to identify both the network and specific hosts that are located on that network. It is possible for a host to query a server for a dynamic IP address each time the device boots up (for example, using DHCP and BOOTP).

An IP address contains four bytes of information, divided into sections that each contain one byte. The IP address has the following format:

```
xxx.xxx.xxx.xxx
```

NOTE: When assigning IP addresses, always consult the IP address administrator. Setting the wrong address can disable other equipment operating on the network or interfere with communications.

Configure IP parameters

TCP/IP configuration parameters can be configured manually, or they can be automatically downloaded by using DHCP or BOOTP each time the product is turned on.

When turned on, a new product that is unable to retrieve a valid IP address from the network automatically assigns itself a default IP address. On a small private network, a unique IP address in the range of 169.254.1.0 to 169.254.254.255 is assigned. The IP address for the product is listed on the product Configuration page and the Network report. See .

Dynamic Host Configuration Protocol (DHCP)

DHCP allows a group of devices to use a set of IP addresses that are maintained by a DHCP server. The device sends a request to the server, and if an IP address is available, the server assigns it to that device.

BOOTP

BOOTP is a bootstrap protocol used to download configuration parameters and host information from a network server.

The client broadcasts a boot request packet that contains the product hardware address. The server answers with a boot reply packet that contains the information that the device needs for configuration.

Subnets

When an IP network address for a particular network class is assigned to an organization, no provision is made for more than one network being present at that location. Local network administrators use subnets to partition a network into several different subnetworks. Splitting a network into subnets can result in better performance and improved use of limited network address space.

Subnet mask

The subnet mask is a mechanism used to divide a single IP network into several different subnetworks. For a given network class, a portion of an IP address that would normally be used to identify a node is used, instead, to identify a subnetwork. A subnet mask is applied to each IP address to specify the portion used for subnetworks, and the portion used to identify the node.

Gateways

Gateways (routers) are used to connect networks together. Gateways are devices that act as translators between systems that do not use the same communication protocols, data formatting, structures, languages, or architectures. Gateways repackage the data packets and change the syntax to match that of the destination system. When networks are divided into subnets, gateways are required to connect one subnet to another.

Default gateway

The default gateway is the IP address of the gateway or router that moves packets between networks.

If multiple gateways or routers exist, then the default gateway is typically the address of the first, or nearest, gateway or router. If no gateways or routers exist, then the default gateway will typically assume the IP address of the network node (such as the workstation or product).

5 Print tasks

- [Use features in the Windows printer driver](#)
- [Use features in the Macintosh printer driver](#)
- [Stop a print request](#)

Use features in the Windows printer driver

Change the print driver to match the media type and size

Selecting media by type and size results in significantly better print quality for heavy paper, glossy paper, and overhead transparencies. Using the wrong setting can result in unsatisfactory print quality. Always print by **Type** for special print media, such as labels or transparencies. Always print by **Size** for envelopes.

1. On the **File** menu in the software program, click **Print**.

2. Select the driver, and then click **Properties** or **Preferences**.

3. Click the **Paper/Quality** tab.

4. In the **Type is** or **Size is** list box, select the correct media type or size.

5. Click **OK**.

Printer-driver Help

Printer-driver Help is separate from program Help. The printer-driver help provides explanations for the buttons, check boxes, and drop-down lists that are in the printer driver. It also includes instructions for performing common printing tasks, such as printing on both sides, printing multiple pages on one sheet, and printing the first page or covers on different paper.

Activate the printer-driver Help screens in one of the following ways:

● In the printer driver **Properties** dialog box, click the **Help** button.

● Press the F1 key on the computer keyboard.

● Click the question-mark symbol in the upper-right corner of the printer driver.

● Right-click on any item in the driver, and then click **What's This?**.

Cancel a print job

You can cancel a print job from the following locations:

● **Product control panel**: To cancel the print job, press and release the Cancel button on the product control panel.

● **Software application**: Typically, a dialog box appears briefly on your screen, allowing you to cancel the print job.

● **Windows print queue**: If a print job is waiting in a print queue (computer memory) or print spooler, delete the job there.

   ◦ Click **Start**, click **Settings**, and then click **Printers** (Windows 2000) or **Printers and Faxes** (Windows XP Professional and Server 2003) or **Printers and Other Hardware Devices** (Windows XP Home).

   ◦ For Windows Vista, click **Start**, click **Control Panel**, and then click **Printer**.

   Double-click the **HP Color LaserJet CP1510 Series** icon to open the window, select your print job, and click **Delete**.

If the status lights on the control panel continue to blink after you cancel a print job, the computer is still sending the job to the product. Either delete the job from the print queue or wait until the computer finishes sending data. The product will return to the Ready state.

Create and use printing shortcuts in Windows

Use printing shortcuts to save the current driver settings for reuse.

Create a printing shortcut

1. On the **File** menu in the software program, click **Print**.

2. Select the driver, and then click **Properties** or **Preferences**.

3. Click the **Printing Shortcuts** tab.

4. Select the print settings that you want to use. Click **Save As**.

5. In the **Printing Shortcuts** box, type a name for the shortcut.

6. Click **OK**.

Use printing shortcuts

1. On the **File** menu in the software program, click **Print**.

2. Select the driver, and then click **Properties** or **Preferences**.

3. Click the **Printing Shortcuts** tab.

4. Select the shortcut that you want to use from the **Printing Shortcuts** box.

5. Click **OK**.

> **NOTE:** To use printer-driver default settings, select **Factory Default**.

Print booklets

You can print booklets on letter, legal, or A4 paper.

1. Load paper in the tray.

2. On the **File** menu in the software program, click **Print**.

3. Select the driver, and then click **Properties** or **Preferences**.

4. Click the **Finishing** tab.

5. Select the **Print On Both Sides (Manually)** check box.

6. From the **Booklet Layout** drop-down list, Select **Left Binding** or **Right Binding**.

7. Click **OK**.

8. Print the document.

   The printer driver prompts you to reload the pages to print the second sides.

9. Fold and staple the pages.

Print-quality settings

Print-quality settings affect print resolution and toner usage.

1. On the **File** menu in the software program, click **Print**.

2. Select the driver, and then click **Properties** or **Preferences**.

3. On the **Paper/Quality** tab, select the print quality setting that you want to use.

   Select **Print all Text as Black** to conserve the color print cartridges. The product uses only the black print cartridge to print black text instead of using a combination of four colors to create black text.

Print on special media

Use only media that is recommended for this product. See Paper and print media on page 13 for more information.

△ **CAUTION:** Be sure to set the correct media type in the printer driver. The product adjusts the fuser temperature according to the media-type setting. When printing on special media, this adjustment prevents the fuser from damaging the media as it passes through the product.

1. Load the media into the tray.

   ● Load envelopes with the front side up and the stamp end toward the back of the tray.

   ● Load all other paper and print media with the front side up and the top of the page toward the back of the tray.

   ● When printing on both sides, load the paper with the front side down and the top of the page toward the back of the tray.

2. Adjust the media length and width guides to the size of the media.

3. On the **File** menu in the software program, click **Print**.

4. Select the driver, and then click **Properties** or **Preferences**.

5. On the **Paper/Quality** tab, choose the correct media type. Or, select an appropriate option on the **Printing Shortcuts** tab.

6. Print the document.

Resize documents

Use the document resizing options to scale a document to a percentage of its normal size. You can also choose to print a document on a different size paper, with or without scaling.

Reduce or enlarge a document

1. On the **File** menu in the software program, click **Print**.

2. Select the driver, and then click **Properties** or **Preferences**.

3. On the **Effects** tab, next to **% of Actual Size**, type the percentage by which you want to reduce or enlarge your document.

You can also use the scroll bar to adjust the percentage.

4. Click **OK**.

Print a document onto a different paper size

1. On the **File** menu in the software program, click **Print**.

2. Select the driver, and then click **Properties** or **Preferences**.

3. On the **Effects** tab, click **Print Document On**.

4. Select the paper size to print on.

5. To print the document without scaling it to fit, make sure that the **Scale to Fit** option is *not* selected.

6. Click **OK**.

Set the print orientation

1. On the **File** menu in the software program, click **Print**.

2. On the **Finishing** tab, select either **Portrait** or **Landscape** in the **Orientation** section.

3. Click **OK**.

Use watermarks

A watermark is a notice, such as "Confidential," that is printed in the background of each page of a document.

1. On the **File** menu in the software program, click **Print**.

2. Select the driver, and then click **Properties** or **Preferences**.

3. From the **Effects** tab, click the **Watermarks** drop-down list.

4. Click the watermark that you want to use. To create a new watermark, click **Edit**.

5. If you want the watermark to appear only on the first page of the document, click **First Page Only**.

6. Click **OK**.

To remove the watermark, click **(none)** in the **Watermarks** drop-down list.

Print on both sides of the page (manual duplex)

To print on both sides of the paper, you must print the first side, turn the paper over and load it into the tray again, and then print the second side.

1. From the Windows desktop, click **Start**, **Settings**, and then **Printers** (or **Printers and Faxes** for some Windows versions).

2. Right-click the **HP Color LaserJet CP1510 Series**, and select **Properties**.

3. Click the **Configure** tab.

4. In the **Paper Handling** section, select **Allow Manual Duplexing**.

5.   Click **OK**.

6.   Open the **Print** dialog in the software program from which you are printing. In most programs this is done by clicking **File** and then **Print**.

7.   Select the HP Color LaserJet CP1510 Series.

8.   Click **Properties** or **Preferences**. The exact option name depends on the software program from which you are printing.

9.   Click the **Finishing** tab.

10. Select the **Print On Both Sides (Manually)** check box.

11. Click **OK**.

12. Print side one of the document.

13. After side one has printed, remove the remaining paper from the tray and set it aside until after you finish the manual two-sided print job.

14. Gather the printed pages, and straighten the stack.

15. Return the stack to the tray with the printed side down and the top edge toward the back of the tray.

16. Press the Resume button to print side two.

Print multiple pages on one sheet of paper in Windows

You can print more than one page on a single sheet of paper.
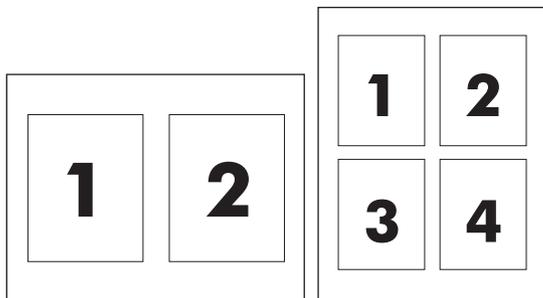
1.   On the **File** menu in the software program, click **Print**.

2.   Select the driver, and then click **Properties** or **Preferences**.

3.   Click the **Finishing** tab.

4.   In the section for **Document Options**, select the number of pages that you want to print on each sheet (1, 2, 4, 6, 9, or 16).

5.   If the number of pages is greater than 1, select the correct options for **Print Page Borders** and **Page Order**.

     ●   If you need to change the page orientation, click **Portrait** or **Landscape**.

6.   Click **OK**. The product is now set to print the number of pages per sheet that you have selected.

Use features in the Macintosh printer driver

When you print from a software program, many of the printer features are available from the printer driver. For complete information about the features that are available in the printer driver, see the printer-driver help.

NOTE: Settings in the printer driver and software program generally override control-panel settings. Software-program settings generally override printer-driver settings.

Create and use presets in Mac OS X

Use presets to save the current printer driver settings for reuse.

Create a preset

1. Open the printer driver. See Open the printer driver and change the print settings on page 10.

2. Select the print settings.

3. In the **Presets** box, click **Save As**, and type a name for the preset.

4. Click **OK**.

Use presets

1. Open the printer driver. See Open the printer driver and change the print settings on page 10.

2. In the **Presets** menu, select the preset that you want to use.

NOTE: To use printer-driver default settings, select the **Standard** preset.

Print a cover page

You can print a separate cover page for your document that includes a message (such as "Confidential").

1. Open the printer driver. See Open the printer driver and change the print settings on page 10.

2. On the **Cover Page** or **Paper/Quality** pop-up menu, select whether to print the cover page **Before Document** or **After Document**.

3. If you are using Mac OS X, in the **Cover Page Type** pop-up menu, select the message that you want to print on the cover page.

NOTE: To print a blank cover page, select **Standard** as the **Cover Page Type**.

Print multiple pages on one sheet of paper

You can print more than one page on a single sheet of paper. This feature provides a cost-effective way to print draft pages.

1. Open the printer driver. See Open the printer driver and change the print settings on page 10.

2. Click the **Layout** pop-up menu.

3. Next to **Pages per Sheet**, select the number of pages that you want to print on each sheet (1, 2, 4, 6, 9, or 16).

4.   Next to **Layout Direction**, select the order and placement of the pages on the sheet.

5.   Next to **Borders**, select the type of border to print around each page on the sheet.

Set the color options

Use the **Color Options** pop-up menu to control how colors are interpreted and printed from software programs.

1.   Open the printer driver. See Open the printer driver and change the print settings on page 10.

2.   Open the **Color Options** pop-up menu.

3.   If you are using Mac OS X, click **Show Advanced Options**.

4.   Adjust the individual settings for text, graphics, and photographs.

Stop a print request

You can stop a print request by using the product control panel or using your software program. For instructions on how to stop a print request from a computer on a network, see the online Help for the specific network software.

NOTE: It can take some time for all printing to clear after you have canceled a print job.

Stop the current print job from the product control panel

Press the Cancel Job (X) button on the control panel.

NOTE: If the print job has proceeded too far, you might not have the option to cancel it.

Stop the current print job from the software program

A dialog box might appear briefly on the screen, giving you the option to cancel the print job.

If several requests have been sent to the product through your software, they might be waiting in a print queue (for example, in Windows Print Manager). See the software documentation for specific instructions about canceling a print request from the computer.

If a print job is waiting in a print queue (computer memory) or print spooler (Windows 2000, XP, or Vista), delete the print job there.

For Windows 2000, Windows XP, or Windows Vista, click **Start** and then click **Printers and Faxes**; or click **Start**, click **Control Panel**, and then click **Printers and Faxes**. Double-click the printer icon to open the print spooler. Select the print job that you want to cancel, and then press Cancel or Delete under the **Document** menu. If the print job is not canceled, you might need to shut down and restart the computer.

6 Control panel

- Understand control-panel features
- Use the control-panel menus
- Use the product control panel in shared environments

Understand control-panel features

The product has the following lights and buttons on the control panel:

1	Ready light (green): The Ready light is on when the product is ready to print. It blinks when the product is receiving print data.
2	Attention light (amber): The Attention light blinks when a print cartridge is empty or the product requires user attention.
	NOTE: The Attention light does *not* blink if more than one print cartridge is empty.
3	**Control-panel display**: The display provides information about the product. Use the menus on the display to establish product settings. See Use the control-panel menus on page 44.
4	**Print cartridge status gauges**: These gauges show the consumption level for each print cartridge (black, yellow, cyan, and magenta).
	If the consumption level is unknown, a ? symbol appears. This can occur in the following circumstances:
	• The print cartridge is missing or installed incorrectly.
	• The print cartridge is defective.
	• The print cartridge might not be an HP cartridge.
5	Left arrow (◀) button: Press this button to navigate through the menus or to decrease a value that appears on the display.
6	OK button: Press the OK button for the following actions:
	• Open the control-panel menus.
	• Open a submenu displayed on the control-panel display.
	• Select a menu item.
	• Clear some product errors.
	• Begin a print job in response to a control-panel prompt (for example, when the message **[OK] to print** appears on the control-panel display).
7	Right arrow (▶) button: Press this button to navigate through the menus or to increase a value that appears on the display.

8	Back arrow (↰) button: Use this button for the following actions:
	● Exit the control-panel menus
	● Scroll back to a previous menu item in a submenu list.
	● Scroll back to a previous menu item in a submenu list (without saving changes to the menu item).
9	Cancel Job (X) button: Press this button to cancel a print job whenever the attention light is blinking or to exit the control-panel menus.

Use the control-panel menus

Use the menus

1. Press OK to open the menus.

2. Press the Left arrow (◄) or Right arrow (►) button to navigate through the listings.

3. Press OK to select the appropriate option. An asterisk (*) appears next to the active selection.

4. Press the Back arrow (⤺) button to scroll back through the submenus.

5. Press X to exit the menu without saving any changes.

The sections that follow describe the options for each of the main menus:

Reports menu

Use the **Reports** menu to print reports that provide information about the product.

Menu item	Description
Demo page	Prints a color page that demonstrates print quality.
Menu structure	Prints a map of the control-panel-menu layout. The active settings for each menu are listed.
Config report	Prints a list of all the product settings. Includes network information when the product is connected to a network.
Supplies status	Prints the status for each print cartridge, including the following information: ● Estimated pages remaining ● Part number ● Number of pages printed
Network report	Prints a list of all product network settings
Usage page	Prints a page that lists PCL pages, PCL 6 pages, PS pages, pages that were jammed or mispicked in the product, monochrome (black and white) or color pages; and reports the page count HP Color LaserJet CP1518ni only: prints a page that lists the information above, and the monochrome (black and white) or color pages printed, number of memory cards inserted, number of PictBridge connections, and the PictBridge page count
PCL font list	Prints a list of all the PCL fonts that are installed.
PS font list	Prints a list of all the PostScript (PS) fonts that are installed
PCL6 font list	Prints a list of all the PCL6 fonts that are installed
Color usage log	Prints a report that shows the user name, application name, and color usage information on a job-by-job basis
Service page	Prints the service report
Diagnostics page	Prints the calibration and color diagnostics pages

System setup menu

Use this menu to establish basic product settings. The **System setup** menu has several sub-menus. Each is described in the following table.

Menu item	Sub-menu item	Sub-menu item	Description
Language			Select the language for the control-panel display messages and the product reports.
Paper setup	**Def. paper size**	**Letter** **A4** **Legal**	Select the size for printing internal reports or any print job that does not specify a size.
	Def. paper type	A list of available media types appears.	Select the media type for printing internal reports or any print job that does not specify a type.
	tray 2	**Paper size** **Paper type**	Select the default size and type for tray 2 from the list of available sizes and types.
	Paper out action	**Wait forever** **Override** **Cancel**	Select how the product should react when a print job requires a size or type that is not available or when a specified tray is empty. Select **Wait forever** to make the product wait until you load the correct media and press OK. This is the default setting. Select **Override** to print on a different size or type after a specified delay. Select **Cancel** to automatically cancel the print job after a specified delay. If you select either **Override** or **Cancel**, the control panel prompts you to specify the number of seconds to delay. Press the Right arrow (▶) button to increase the time, up to 3600 seconds. Press the Left arrow (◀) button to decrease the time.
Print quality	**Calibrate color**	**After power on** **Calibrate now** **Calibration mode**	**After power on**: Select how soon the product should calibrate after you turn it on. The default setting is **15 minutes**. **Calibrate now**: Makes the product perform a calibration immediately. If a job is processing, the product calibrates after the job is complete. If an error message is displayed, you must clear the error first.

Menu item	Sub-menu item	Sub-menu item	Description
			Calibration mode: Determines the type of calibration that the product uses during the calibration process.
			Normal: The standard **Calibration mode** setting.
			Full: The extended **Calibration mode** setting (this calibration takes longer).
	Replace supplies	Override out Stop at out	**Override out**: If the product determines that a print cartridge is empty, you can continue printing until you notice a decrease in print quality. **Stop at out**: If the product determines that a print cartridge is empty, you must replace the cartridge before printing can continue. This is the default setting.
	Cartridge low	(1-20)	The percentage threshold determines when the product begins reporting low toner. The message is either reported on the control-panel display or using the toner LED, if it exists. The default setting is 10%.
	Restrict color	Enable color Disable color	Select **Enable color** to allow the job to print in either monochrome (black and white) or color depending on the specifications of the job. Select **Disable color** to disable color printing. All jobs will print in monochrome (black and white).
Courier font	Regular Dark		Selects a version of the Courier font. The default is **Regular**.
Display contrast	Medium Darker Darkest Lightest Lighter		Select the level of contrast for the display. The default setting is **Medium**.

Network config. menu

Use this menu to establish network configuration settings.

Menu item	Sub-menu item	Description
TCP IP config	Automatic Manual	Select **Automatic** to automatically configure all the TCP/IP settings. Select **Manual** to manually configure the IP address, subnet mask, and default gateway. The default setting is **Automatic**.
Automatic crossover	On Off	This item is used when you are connecting the product directly to a personal computer using an Ethernet cable (you might have to set this to **On** or **Off** depending on the computer being used). The default setting is **On**.
Network services	IPv4 IPv6	This item is used by the network administrator to limit the network services available on this product. **On** **Off** The default setting is **On**.
Memory card	On Off	Use this option to enable or disable file sharing between an installed memory card and the product. The default setting is **Off**.
Show IP address on control panel	No Yes	**No**: The product IP address will not appear on the control-panel display. **Yes**: The product IP address will appear on the control-panel display. The default setting is **No**.
Restore defaults		Press OK to restore the network configuration settings to the default values.

Service menu

Use this menu to restore default settings, clean the product, and activate special modes that affect print output.

Menu item	Description
Restore defaults	Sets all customized settings to the factory default values.
PowerSave	Sets how long the product remains idle before it enters **PowerSave** mode. The product automatically exits **PowerSave** mode when you send a print job or press a control-panel button. The default setting is **15 minutes**.
Cleaning mode	Use this option to clean the product if you see toner specks or other marks on the printed output. The cleaning process removes dust and excess toner from the paper path. When you select this item, the product prompts you to load plain paper in tray 1 and then press OK to start the cleaning process. Wait until the process is complete. Discard the page that prints.
USB speed	Sets the USB speed to **High** or **Full**. For the product to actually operate at high speed, it must have high speed enabled and be connected to an EHCI host controller that is also operating at high speed. This menu item also does not reflect the current operating speed of the product. The default setting is **High**.
Less paper curl	If printed pages are consistently curled, use this option to set the product to a mode that reduces curl. The default setting is **Off**.
Archive print	If you are printing pages that will be stored for a long time, use this option to set the product to a mode that reduces toner smearing and dusting. The default setting is **Off**.

Use the product control panel in shared environments

If your product is shared with other users, adhere to the following guidelines to ensure successful product operation:

● Consult your system administrator before making changes to control-panel settings. Changing control-panel settings could affect other print jobs.

● Coordinate with other users before changing the default printer font or downloading soft fonts. Coordinating these operations conserves memory and avoids unexpected printer output.

● Be aware that switching product personalities, such as switching emulated postscript to PCL, affects the printed output for other users.

NOTE: Your network operating system might automatically protect each user's print job from the effects of other print jobs. Consult your system administrator for more information.

7 Color

- [Manage color](#)
- [Advanced color use](#)
- [Match colors](#)
- [HP Basic Color Match tool](#)

Manage color

Setting color options to **Automatic** typically produces the best possible print quality for color documents. However, you sometimes might want to print a color document in grayscale (black and white) or change one of the product color options.

- In Windows, use the settings on the **Color** tab in the printer driver to print in grayscale or change the color options.

Print in Grayscale

Select the **Print in Grayscale** option from the printer driver to print a color document in black and white. This option is useful for printing color documents that will be photocopied or faxed.

When **Print in Grayscale** is selected, the product uses the monochrome mode, which reduces wear on the color cartridges.

Automatic or manual color adjustment

The **Automatic** color adjustment option optimizes the neutral-gray color treatment, halftones, and edge enhancements for each element in a document. For more information, see your printer driver online Help.

📝 **NOTE:** **Automatic** is the default setting and is recommended for printing all color documents.

Use the **Manual** color adjustment option to adjust the neutral-gray color treatment, halftones, and edge enhancements for text, graphics, and photographs. To gain access to the manual color options, from the **Color** tab, select **Manual**, and then select **Settings**.

Manual color options

Use manual color options to adjust the **Neutral Grays**, **Halftone**, and **Edge Control** options for text, graphics, and photographs.

Table 7-1 Manual color options

Setting description	Setting options
Halftone **Halftone** options affect the color output resolution and clarity.	**Smooth** provides better results for large, solid-filled print areas and enhances photographs by smoothing color gradations. Select this option when uniform and smooth area fills are the top priority. **Detail** is useful for text and graphics that require sharp distinctions among lines or colors, or images that contain a pattern or a high level of detail. Select this option when sharp edges and details are the top priority.

Table 7-1 Manual color options (continued)

Setting description	Setting options
Neutral Grays The **Neutral Grays** setting determines the method for creating gray colors used in text, graphics, and photographs.	● **Black Only** generates neutral colors (grays and black) by using only black toner. This guarantees neutral colors without a color cast. ● **4-Color** generates neutral colors (grays and black) by combining all four toner colors. This method produces smoother gradients and transitions to other colors, and it produces the darkest black.
Edge Control The **Edge Control** setting determines how edges are rendered. Edge control has two components: adaptive halftoning and trapping. Adaptive halftoning increases edge sharpness. Trapping reduces the effect of color-plane misregistration by overlapping the edges of adjacent objects slightly.	● **Maximum** is the most aggressive trapping setting. Adaptive halftoning is on. ● **Normal** sets trapping at a medium level. Adaptive halftoning is on. ● **Light** sets trapping at a minimal level, Adaptive halftoning is on. ● **Off** turns off both trapping and adaptive halftoning.

Color themes

Use color themes to adjust the **RGB Color** options for the entire page.

Setting description	Setting options
RGB Color	● **Default (sRGB)** instructs the product to interpret RGB color as sRGB. The sRGB standard is the accepted standard of Microsoft and the World Wide Web Consortium (http://www.w3.org). ● **Vivid** instructs the product to increase the color saturation in the midtones. Less colorful objects are rendered more colorfully. This setting is recommended for printing business graphics. ● **Photo** interprets RGB color as if it were printed as a photograph using a digital mini-lab. It renders deeper, more saturated colors differently than Default (sRGB) mode. Use this setting for printing photos. ● **Photo (AdobeRGB 1998)** is for digital photos that use the AdobeRGB color space rather than sRGB. When printing from a professional software program that uses AdobeRGB, it is important to turn off the color management in the software program and allow the product to manage the color space. ● **None** sets the printer to print RGB data in raw device mode. To render photographs correctly when this option is selected, you must manage color in the program in which you are working or in the operating system.

Advanced color use

The product provides automatic color features that generate excellent color results. Carefully designed and tested color tables provide smooth, accurate color rendition of all printable colors.

The product also provides sophisticated tools for the experienced professional.

HP ColorSphere toner

HP designs the print system (printer, print cartridges, toner, and paper) to work together to optimize print quality, product reliability, and user productivity. Original HP print cartridges contain HP ColorSphere toner that is specifically matched to your printer so that it will produce a wide range of brilliant colors. This helps you create professional looking documents that contain sharp, clear text and graphics and realistic printed photos.

HP ColorSphere toner produces print-quality consistency and intensity you can depend on across a wide range of papers That means you can produce documents that help you make the right impression. Plus, HP professional-quality everyday and specialty papers (including a wide variety of HP media types and weights) are designed for the way you work.

HP ImageREt 3600

ImageREt 3600 provides 3600 dots-per-inch (dpi) color laser-class quality through a multi-level printing process. This process precisely controls color by combining up to four colors within a single dot and by varying the amount of toner in a given area. ImageREt 3600 has been improved for this product. The improvements offer trapping technologies, greater control over dot placement, and more precise control of toner quality in a dot. These new technologies, coupled with HP's multi-level printing process, result in a 600 x 600 dpi printer that provides 3600-dpi color laser-class quality with millions of smooth colors.

In contrast, the single-level printing process found in the default mode of other color laser printers does not allow the colors to be mixed within a single dot. This process, called dithering, significantly hinders the ability to create a wide range of colors without reduced sharpness or visible dot structure.

Media selection

For the best color and image quality, select the appropriate media type from the software printer menu or from the printer driver.

Color options

Color options automatically provide optimal color output. These options use object tagging, which provides optimal color and halftone settings for different objects (text, graphics, and photos) on a page. The printer driver determines which objects appear on a page and uses halftone and color settings that provide the best print quality for each object.

In the Windows environment, the **Automatic** and **Manual** color options are on the **Color** tab in the printer driver.

Standard red-green-blue (sRGB)

Standard red-green-blue (sRGB) is a worldwide color standard that HP and Microsoft developed as a common color language for monitors, input devices (scanners and digital cameras), and output devices (printers and plotters). It is the default color space used for HP products, Microsoft operating systems, the World Wide Web, and most office software. The sRGB standard represents the typical Windows monitor and is the convergence standard for high-definition television.

The latest versions of Adobe PhotoShop®, CorelDRAW®, Microsoft Office, and many other programs use sRGB to communicate color. Because it is the default color space in Microsoft operating systems, sRGB has been adopted broadly. When programs and devices use sRGB to exchange color information, typical users experience greatly improved color matching.

The sRGB standard improves your ability to match colors between the product, the computer monitor, and other input devices automatically, and eliminates the need to become a color expert.

Match colors

The process of matching printer output color to your computer screen is complex, because printers and computer monitors use different methods of producing color. Monitors *display* colors by using light pixels that use an RGB (red, green, blue) color process, but printers *print* colors by using a CMYK (cyan, magenta, yellow, and black) process.

Several factors can influence your ability to match printed colors to those on your monitor:

- Print media

- Printer colorants (inks or toners, for example)

- Printing process (inkjet, press, or laser technology, for example)

- Overhead lighting

- Personal differences in perception of color

- Software programs

- Printer drivers

- Computer operating systems

- Monitors

- Video cards and drivers

- Operating environment (humidity, for example)

Keep these factors in mind when colors on your screen do not perfectly match your printed colors.

For most users, the best method for matching colors is to print sRGB colors.

Use HP ToolboxFX to print the Microsoft Office Basic Colors palette

You can use HP ToolboxFX to print a palette of the Microsoft Office Basic Colors. Use this palette to select the colors that you want to use in printed documents. It shows the actual colors that print when you select these basic colors in a Microsoft Office program.

1. In HP ToolboxFX, select the **Help** folder.

2. In the **Troubleshooting** section, select **Print Basic Colors**.

HP Basic Color Match tool

The HP Basic Color Match tool allows you to adjust spot color in your printed output. For example, you can match the color of your company logo on your printed output. You can save and use the new color schemes for specific documents or all printed documents, or you can create multiple color schemes that you can choose from later.

Use HP ToolboxFX to open the HP Basic Color Match tool

1. In HP ToolboxFX, select the **Help** folder.

2. In the **Color Printing Tools** section, select **Basic Color Match**.

8   Photo

- Insert a memory card

- Change memory card default settings

- Print photos directly from the memory card

- Print a memory card index

- PictBridge

Insert a memory card

The HP Color LaserJet CP1518ni product can read the following memory-card types:

- CompactFlash (CF) Type 1 and Type 2
- Memory Stick, Memory Stick PRO, and Memory Stick Duo
- MultiMedia Card (MMC)
- Secure Digital (SD)
- xD Picture Card

The HP Color LaserJet CP1518ni memory card reader recognizes only the .JPEG file format when printing from the product control panel. To print other file types, you must do one of the following:

- Use the software, such as PhotoSmart Premier software, provided on the product CD-ROM. See the software online Help for instructions.
- Windows operating system users: Use Windows Explorer to move other file types to your computer, and then print the files from the computer.

Use the appropriate memory card slot on the HP Color LaserJet CP1518ni product. To find the appropriate slot, see the illustration below.
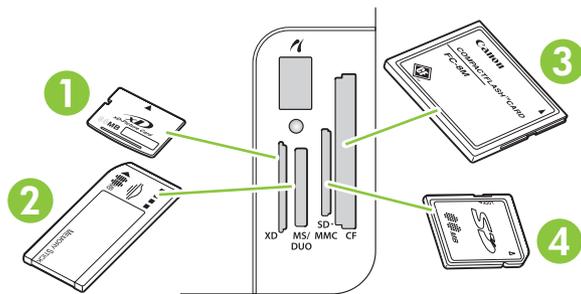
1	Accepts xD memory cards.
2	Accepts Memory Stick, Memory Stick PRO, and Memory Stick Duo memory cards.
3	Accepts CompactFlash memory cards.
4	Accepts Secure Digital and MultiMedia memory cards.

Insert and remove a memory card

1. Push the memory card into the appropriate memory slot to seat it.

   NOTE: You can use only one memory card in the product at a time. If two or more are inserted, the product displays an error message.
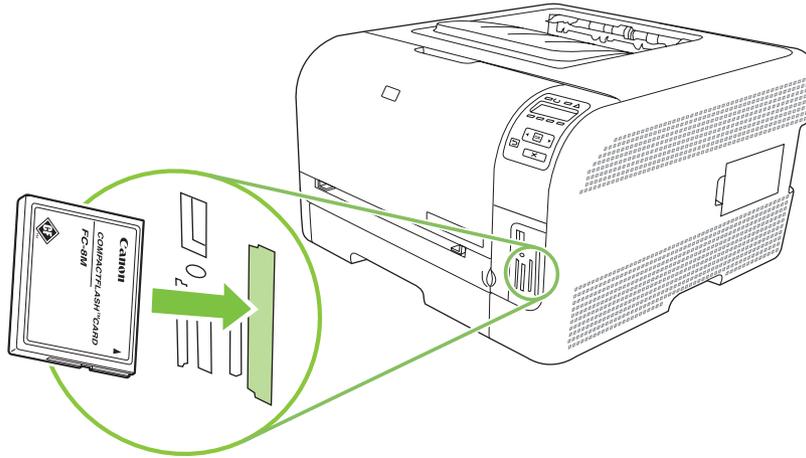
2. The product reads the card, and then the product control panel displays **X photos found on card**, where *X* is the number of recognized .JPEG files found on the memory card.

   After a few seconds, the message **Photo menu Easy Photo Print** appears on the control-panel display. Now you can use the HP Color LaserJet CP1518ni to print photos. See Print photos directly from the memory card on page 63.

3. Grasp the card and gently pull it straight out of the memory card slot to remove it.

   CAUTION: To avoid damaging the files stored on the card, do not remove a memory card while the product is accessing it. Wait for the LED near the memory card slots to stop blinking before you remove the memory card. When the LED remains illuminated, it is safe to remove the memory card.
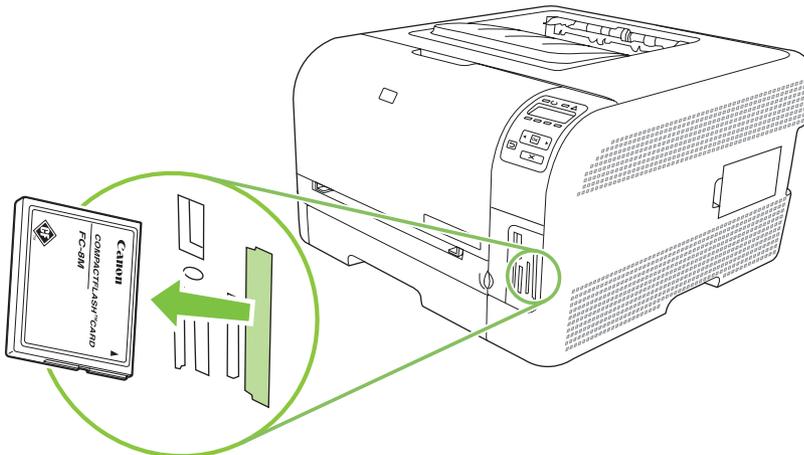
Change memory card default settings

The HP Color LaserJet CP1518ni product comes with default settings that you can change for photo printing from the product control panel.

NOTE: The default settings remain as selected until you change and save them again. If you want to change the settings temporarily for a particular photo-printing job, see Print photos directly from the memory card on page 63.

1. Press OK.

2. Use the Left arrow (◄) or Right arrow (►) button to select **Main menu Photo setup**, and then press OK.

3. Use the Left arrow (◄) or Right arrow (►) button to select one of the following menu items, and then press OK.

    ● **Def. light/dark**: Change the light and dark setting for the image that you are printing.

    ● **Def. # of copies**: Change the number of copies that you want to print.

    ● **Def. output color**: Set whether you are printing in color or black and white.

    ● **Restore defaults**: This returns all settings to the factory defaults.

4. Use the Left arrow (◄) or Right arrow (►) button to change the setting, and then press OK to save the change or, press X to exit the menu without saving changes.

5. Repeat these steps for each menu item that you want to change.

Print photos directly from the memory card

Use the control panel to print directly from a memory card and to change the settings for a print job.

Print individual photos from the memory card

1. Insert the memory card into the product. The message **Main menu Photo menu** displays.

2. Use the Left arrow (◄) or Right arrow (►) button to select **Easy photo print** and then press OK.

3. Use the Left arrow (◄) or Right arrow (►) button to select **Select photos Individual** and then press OK.

4. Use the Left arrow (◄) or Right arrow (►) button to make selections for each of the following menu items, and then press OK.

   ● **Select photo #**: Select an individual photo to print. The photos are numbered, starting with number 1.

   ● **Image size**: Set the size for the printed image.

   ● **Paper size**: Select the media size.

   ● **Paper type**: Select the media type.

   ● **# of copies**: Set the number of copies to print (1 to 99).

5. When the message **[OK] to print** appears on the control-panel display, press OK. Press X to exit the menu without printing.

Print a range of photos from the memory card

1. Insert the memory card into the product. The message **Main menu Photo menu** displays.

2. Use the Left arrow (◄) or Right arrow (►) button to select **Easy photo print**, and then press OK.

3. Use the Left arrow (◄) or Right arrow (►) button to select **Select photos From a range**, and then press OK.

4. Use the Left arrow (◄) or Right arrow (►) button to make selections for each of the following menu items, and then press OK.

   ● **First photo #**: Select the first photo in the range of photos to print. The photos are numbered, starting with number 1.

   ● **Last photo #**: Select the last photo in the range of photos to print.

   ● **Image size**: Set the size for the printed image.

   ● **Paper size**: Select the media size.

   ● **Paper type**: Select the media type.

   ● **# of copies**: Set the number of copies to print (1 to 99).

5. When the message **[OK] to print** appears on the control-panel display, press OK. Press X to exit the menu without printing.

Print all of the photos from the memory card

1. Insert the memory card into the product. The message **Main menu Photo menu** displays.

2. Use the Left arrow (◄) or Right arrow (►) button to select **Easy photo print**, and then press OK.

3. Use the Left arrow (◄) or Right arrow (►) button to select **Select photos All (# - #)**, and then press OK.

4. Use the Left arrow (◄) or Right arrow (►) button to make selections for each of the following menu items, and then press OK.

    ●   **Image size**: Set the size for the printed image.

    ●   **Paper size**: Select the media size.

    ●   **Paper type**: Select the media type.

    ●   **# of copies**: Set the number of copies to print (1 to 99).

5. When the message **[OK] to print** appears on the control-panel display, press OK. Press X to exit the menu without printing.

Print a memory card index

Use the control panel to print a thumbnail index of all of the photos on a memory card.

1. Insert the memory card into the product. See . The message **Main menu Photo menu** displays.

2. Use the Left arrow (◄) or Right arrow (►) button to select **Photo menu Index print** and then press OK.

3. Use the Left arrow (◄) or Right arrow (►) button to select either **Fast** or **Best**, and then press OK. Press X to exit the menu without printing.

PictBridge

Use the PictBridge slot and a USB cable to connect a compatible digital camera or camcorder to the HP Color LaserJet CP1518ni. You can then print images from these devices without using a personal computer.

The PictBridge port is located near the memory card slots.
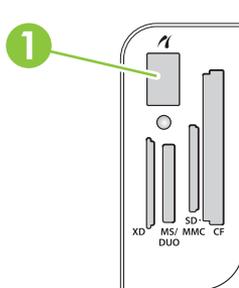
Connect a digital camera or digital camcorder to the product

△ **CAUTION:** To avoid damage to the product, do not connect any other equipment other than a compatible digital camera or digital camcorder to the PictBridge port.

📝 **NOTE:** HP recommends that you use the AC adapter to operate your camera or camcorder when connecting either device directly to the product. If you operate the device using batteries, make sure that the batteries are fully charged.

Depending on the camera or camcorder model, you might have to select a print mode that is compliant with the PictBridge function before you connect the device to the HP Color LaserJet CP1518ni. You might also have to manually turn on the camera or select Play mode for the camcorder after connecting the device to the product. Read the manufacturer instructions for your device before connecting it to the HP Color LaserJet CP1518ni.

1. Before you connect a device to the product, make sure that the camera or camcorder is turned off.

2. Use the USB cable that came with the device to connect the device to the PictBridge port on the product.
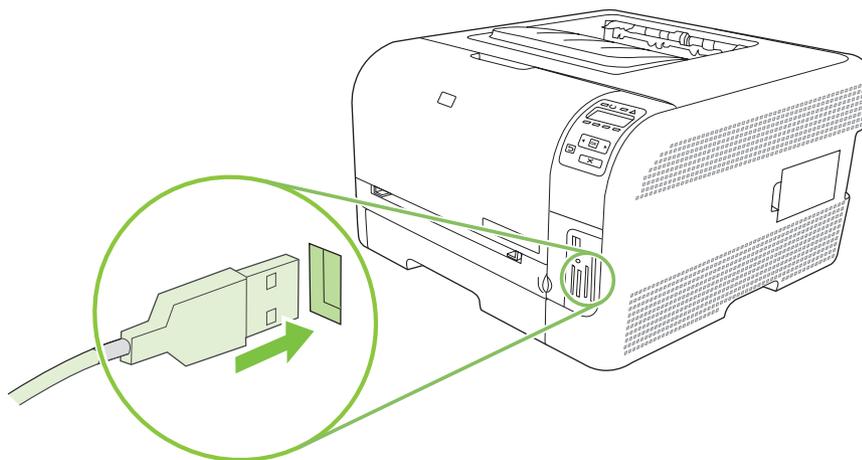
3. Turn the camera or camcorder on. Follow the manufacturer instructions for direct printing from the device.

4. When you are finished printing photos directly from a camera or camcorder connected to the HP Color LaserJet CP1518ni, always unplug the cable that connects the device to the PictBridge port.

9   Manage and maintain

- Print information pages
- HP ToolboxFX
- Use the embedded Web server
- Configure the product using a Macintosh
- Manage supplies
- Replace print cartridges
- Work with memory
- Clean the product
- Upgrade firmware

Print information pages

Use the control panel to print configuration and supplies status pages that give details about the product and its current settings.

1. Press OK to open the menus.

2. Press the Left arrow (◄) or Right arrow (►) button to navigate to **Reports**, and then press OK.

3. Press the Left arrow (◄) or Right arrow (►) button to navigate to **Config report** or **Supplies status**, and then press OK to print the report.

4. Press X to exit the menus.

NOTE: Before you can print the information pages, you must install the product software and connect the product to the computer.

HP ToolboxFX

HP ToolboxFX is a program that you can use to complete the following tasks:

- Check the product status.
- Configure the product settings.
- Configure pop-up-alert messages.
- View troubleshooting information.
- View online documentation.

You can view HP ToolboxFX when the product is directly connected to your computer or is connected to the network. You must perform a recommended software installation to use HP ToolboxFX.

NOTE: HP ToolboxFX is not supported for Windows Server 2003 or Macintosh operating systems. To use HP ToolboxFX, you must have TCP/IP protocol installed on your computer.

You do not have to have Internet access to open and use HP ToolboxFX.

View the HP ToolboxFX

Open HP ToolboxFX in one of these ways:

- In the Windows system tray, double-click the HP ToolboxFX icon (□).
- On the Windows **Start** menu, click **Programs** (or **All Programs** in Windows XP and Vista), click **HP**, click **HP Color LaserJet CP1510 Series**, and then click **HP ToolboxFX**.

HP ToolboxFX contains the following folders:

Status

The **Status** folder contains links to the following main pages:

- **Device status**. This page indicates product conditions such as a jam or an empty tray. After you correct a problem, click **Refresh status** to update the product status.

- **Supplies status**. View details such as the estimated percent of toner remaining in the print cartridge and the number of pages that have been printed with the current print cartridge. This page also has links for ordering supplies and for finding recycling information.

- **Device configuration**. View a detailed description of the current product configuration, including the amount of memory installed and whether optional trays are installed.

- **Network summary**. View a detailed description of the current network configuration, including the IP address and network status.

- **Print info pages**. Print the Configuration page and other information pages, such as the Supplies status page. See Print information pages on page 68.

- **Color usage job log**. View color usage information for the product.

- **Event log**. View a history of product errors. The most recent error is listed first.

Event log

The Event log is a table that contains codes corresponding to error messages that have appeared on the product control-panel display, a brief description of each error, and the number of pages that printed when each error occurred. For more information about error messages, see Control-panel and status-alert messages on page 95.

Alerts

The **Alerts** folder contains links to the following main pages:

- **Set up Status Alerts**. Set up the product to send you pop-up alerts for certain events, such as low toner levels.

- **Set up E-mail Alerts**. Set up the product to send you e-mail alerts for certain events, such as low toner levels.

Set up Status Alerts

Use this to set up the product so that it sends alerts to your computer when jams, low levels of toner in HP print cartridges, a non-HP print cartridge in use, empty input trays, and specific error messages occur.

Select to receive a pop-up, a system tray icon, a desktop alert, or any combination of these. The pop-up and desktop alerts only appear when the product is printing from the computer on which you set up the alerts. Desktop alerts are only visible momentarily, and disappear automatically.

Change the **Cartridge low threshold** setting, which sets the toner level that causes a low toner alert, on the **System setup** page.

NOTE: You must click **Apply** before your changes take effect.

Set up E-mail Alerts

Use this to configure up to two e-mail addresses to receive alerts when certain events occur. You can specify different events for each e-mail address. Use the information for the e-mail server that will send out the e-mail alert messages for the product.

NOTE: You can only configure e-mail alerts to be sent from a server that does not require user authentication. If your e-mail server requires you to log in with a username and password, you cannot enable e-mail alerts.

NOTE: You must click **Apply** before your changes take effect.

Product information

The **Product information** folder contains links to the following page:

- **Demonstration Pages**. Print pages that show the color print quality potential and overall print characteristics of the product.

Help

The **Help** folder contains links to the following main pages:

- **Troubleshooting**. View troubleshooting help topics, print troubleshooting pages, clean the product, and open Microsoft Office Basic Colors. For more information about Microsoft Office Basic Colors, see Match colors on page 56.

- **Paper and Print Media**. Print information about how to obtain optimal results from your product using various types of paper and print media.

- **How do I?** Link to the user-guide index.

- **Color Printing Tools**. Open Microsoft Office Basic Colors or the full palette of color with associated RGB values. For more information about Microsoft Office Basic Colors, see Match colors on page 56. Use the HP Basic Color Match to adjust spot colors in your printed output.

- **User Guide**. View information about the product usage, warranty, specifications, and support. The User Guide is available in both HTML and PDF format.

Device Settings

The **Device Settings** folder contains links to the following main pages:

- **Device Information**. View information such as the product description and a contact person.

- **Paper Handling**. Configure trays or change the product paper-handling settings, such as default paper size and default paper type.

- **Printing**. Change the default product print settings, such as number of copies and paper orientation.

- **PCL5c**. Change the PCL settings.

- **PostScript**. Change the PS settings.

- **Photo**. Change the photo settings.

- **Print Quality**. Change the print-quality settings.

- **Print Density**. Change the print-density settings, such as contrast, highlights, midtones, and shadows.

- **Paper Types**. Change the mode settings for each media type, such as letterhead, prepunched, or glossy paper.

- **Extended Print Modes**. Change the default print modes.

- **System Setup**. Change the system settings, such as jam recovery and auto-continue. Change the **Cartridge low threshold** setting, which sets the toner level that causes a low toner alert.

- **Service**. Gain access to various procedures required to maintain the product.

- **Save/Restore Settings**. Save the current settings for the product to a file on your computer. Use this file to load the same settings onto another product or to restore these settings to this product at a later time.

- **Password**. Set a password to protect the device settings. Once a password is set, users will be prompted to enter the password before being allowed to change device settings. This password is the same as the embedded Web server password.

Device Information

The Device Information page stores data about your product for future reference. The information that you type in the fields on this page appears on the Configuration page. You can type any character in each of these fields.

NOTE: You must click **Apply** before your changes take effect.

Paper Handling

Use these options to configure your default settings. These are the same options that are available on the control-panel menus on the control panel. For more information, see Use the control-panel menus on page 44.

The following options are available for handling print jobs when the product is out of media:

● Select **Wait for paper to be loaded**.

● Select **Cancel** from the **Paper out action** drop-down list to cancel the print job.

● Select **Override** from the **Paper out time** drop-down list to send the print job to another paper tray.

The **Paper out time** field specifies how long the product waits before acting on your selections. You can specify from 0 to 3600 seconds.

NOTE: You must click **Apply** before your changes take effect.

Printing

Use these options to configure the settings for all print functions. These are the same options that are available on the control panel. For more information, see Use the control-panel menus on page 44.

NOTE: You must click **Apply** before your changes take effect.

PCL5c

Use these options to configure the settings when you are using the PCL print personality.

NOTE: You must click **Apply** before your changes take effect.

PostScript

Use this option when you are using the PostScript print personality. When the **Print PostScript error** option is turned on, the PostScript error page automatically prints when PostScript errors occur.

NOTE: You must click **Apply** before your changes take effect.

Photo

Use these options to configure photo printing and to enable or disable using memory cards.

NOTE: You must click **Apply** before your changes take effect.

Print Quality

Use these options to improve the appearance of your print jobs. These are the same options that are available on the control panel menus. For more information, see <u>Use the control-panel menus on page 44</u>.

Color Calibration

- **Power On Calibration**. Specify whether the product should calibrate when you turn it on.

- **Calibration Timing**. Specify how frequently the product should calibrate.

- **Calibration Mode**. Specify the type of calibration the product should use.

  ○ **Normal**

  ○ **Full (slower)**

    Full calibration improves the color accuracy of photos printed on 100 x 150 mm (4 x 6 in) HP Color Laser Photo Paper.

- **Calibrate Now**. Set the product to calibrate immediately.

NOTE: You must click **Apply** before your changes take effect.

Print Density

Use these settings to make fine adjustments in the amount of each color of toner that is used for your printed documents.

- **Contrasts**. Contrast is the range of difference between light (highlight) and dark (shadow) colors. To increase the overall range between light and dark colors, increase the **Contrasts** setting.

- **Highlights**. Highlights are colors that are nearly white. To darken highlight colors, increase the **Highlights** setting. This adjustment does not affect midtone or shadow colors.

- **Midtones**. Midtones are colors that are halfway between white and solid density. To darken midtone colors, increase the **Midtones** setting. This adjustment does not affect highlight or shadow colors.

- **Shadows**. Shadows are colors that are nearly solid density. To darken shadow colors, increase the **Shadows** setting. This adjustment does not affect highlight or midtone colors.

Paper Types

Use these options to configure print modes that correspond to the various media types. To reset all modes to factory default settings, select **Restore modes**.

NOTE: You must click **Apply** before your changes take effect.

Extended Print Modes

⚠ **CAUTION:** These advanced settings should only be used to improve print quality. Changing these settings can have a significant impact on print quality and product operation.

Use these options to configure the **Fusing**, **Transfer**, **Duplex Transfer**, and **Toner** print modes that correspond to the various media types found in the printer driver. You can also change product **Optimize** settings, such as drum and transfer belt cleaning.

To reset all modes to factory default settings, select **Restore modes**.

📝 **NOTE:** You must click **Apply** before your changes take effect.

Print mode	Setting
Fusing This print mode controls the fuser temperature.	● Paper curl. Decreases the fuser temperature to prevent or reduce page curl. Page curl can be a problem for light-weight media that is used in a high-humidity environment. ● Heavy coverage. Increases the fuser temperature so that the toner properly adheres to the page when a high percentage of toner is needed. ● Flap sealing. Decreases the fuser temperature to make sure that envelope flaps do not seal during printing. ● Less/More fusing. Provides two levels of decreased fuser temperatures and two levels of increased fuser temperatures. The user selects the best fuser temperature for the current print job.
Transfer This print mode controls the transfer bias voltage.	● Dry paper. Increases the transfer bias voltage to prevent print-quality transfer problems in low-humidity (dry) environments. ● Humid paper. Decreases the transfer bias voltage to prevent print-quality transfer problems in high-humidity (wet) environments. ● Rough paper. Increases the transfer bias voltage to prevent print-quality transfer problems when using rough papers (for example, cotton bond papers). ● Less/More transfer. Provides two levels of decreased transfer bias voltage and two levels of increased transfer bias voltage. The user selects the best transfer bias voltage for the current print job.
Duplex Transfer This print mode controls the transfer bias voltage for duplex print jobs.	This mode has the same options as the Transfer mode, but is applied when the product is printing the duplex side of a two-sided print job.
Toner This print mode controls the amount of toner applied to a page.	**Less toner** Decreases the amount of toner for each color that is applied to the page to prevent print-quality problems like toner scatter in high humidity (wet) environments. The options are 100% (No adjustment), 95% (-1), 90% (-2), and 85% (-3).

Optimize

- Background Toner

    Select On to reduce background printing on glossy media.

- Extra Drum Cleaning

    Select On to reduce the residue left by high-acid media that can cause print-quality problems.

- Drum Banding

    Select On to reduce the occurrence of sharp image-quality defect lines at the photosensitive drum by inducing extra drum pre-rotations and by jogging the drums slightly after each job (the jogging motion is slightly audible).

- Transfer Belt Cleaning

    Increases the effectiveness of the transfer belt cleaning process. Use this option if a previous heavy-coverage print job is leaving a faint image (ghosting) on subsequently printed pages.

- Transfer Belt Cleaning Voltage

    Allows fine adjustment of the transfer belt cleaning roller and brush voltage.

- Transfer Belt Voltage-Y

    Allows for fine adjustment of the yellow print cartridge to Intermediate Transfer Belt (ITB) transfer voltage.

- Transfer Belt Voltage-M

    Allows for fine adjustment of the magenta print cartridge to Intermediate Transfer Belt (ITB) transfer voltage.

- Transfer Belt Voltage-C

    Allows for fine adjustment of the cyan print cartridge to Intermediate Transfer Belt (ITB) transfer voltage.

- Transfer Belt Voltage-K

    Allows for fine adjustment of the black print cartridge to Intermediate Transfer Belt (ITB) transfer voltage.

System Setup

Use these system settings to configure miscellaneous print settings. These settings are not available on the control panel.

NOTE: You must click **Apply** before your changes take effect.

Service

During the printing process, paper, toner and dust particles can accumulate inside the product. Over time, this buildup can cause print-quality problems such as toner specks or smearing. The HP ToolboxFX provides an easy method for cleaning the paper path. For more information, see Clean the product on page 91.

Network Settings

The network administrator can use this tab to control the network-related settings for the product when it is connected to an IP-based network.

Shop for Supplies

This button, at the top of each page, links to a Web site where you can order replacement supplies. You must have Internet access to use this feature.

Other Links

This section contains links that connect you to the Internet. You must have Internet access in order to use any of these links. If you use a dial-up connection and did not connect when you first opened HP ToolboxFX, you must connect before you can visit these Web sites. Connecting might require that you close HP ToolboxFX and reopen it.

● **HP Instant Support**. Connects to the HP Instant Support Web site.

● **Support and Troubleshooting**. Connects to the support site for the product where you can search for help with a specific problem.

● **Product Registration**. Connects to the HP product registration Web site.

Use the embedded Web server

When the product is connected to the network, the embedded Web server is automatically available. You can open the embedded Web server from Windows 95 and later.

NOTE: When the product is directly connected to a computer, use the HP ToolboxFX to view the product status.

Use the embedded Web server to view product and network status and to manage printing functions from your computer instead of from the product control panel.

- View product control status information.

- Set the type of paper loaded in each tray.

- Determine the remaining life of all supplies and order new ones.

- View and change tray configurations.

- View and change the product settings.

- View and print internal pages.

- View and change network configuration.

- View support content that is specific to the current state of the product.

- Restrict access to color-printing features.

To use the embedded Web server, you must have Microsoft Internet Explorer 6 or later, Netscape Navigator 7 or later, Safari 1.2 or later, Konqueror 3.2 or later, Firefox 1.0 or later, Mozilla 1.6 or later, or Opera 7 or later. The embedded Web server works when the product is connected to an IP-based network. The embedded Web server does not support IPX-based or AppleTalk printer connections. You do not need Internet access to open and use the embedded Web server.

Access the embedded Web server by using a network connection

1. In a supported Web browser on your computer, type the IP address for the product in the address/ URL field. (To find the IP address, print a configuration page. See Print information pages on page 68.)

    NOTE: After you open the URL, you can bookmark it so that you can return to it quickly in the future.

2. The embedded Web server has three tabs that contain settings and information about the product: the **Status** tab, the **Settings** tab, and the **Networking** tab. Click the tab that you want to view.

    See the following section for more information about each tab.

Embedded Web server sections

The table below describes the basic screens of the embedded Web server.

Tab or section	Description
Status tab Provides product, status, and configuration information.	● **Device Status**: Shows the product status and shows the life remaining of HP supplies, with 0% indicating that a supply is empty. ● **Supplies Status**: Shows the life remaining of HP supplies, with 0 percent indicating that a supply is empty. This page also provides supplies part numbers. ● **Device Configuration**: Shows the information found on the product Configuration page. ● **Network Summary**: Shows the information found on the product Network Configuration page. ● **Print Info Pages**: Allows you to print the PCL, PCL6, PS Font Lists, and the supplies status page that the product generates. ● **Color Usage Job Log**: Shows user color print jobs on a job-by-job basis. ● **Event Log**: Shows a list of all product events and errors. ● **Support** button: Provides a link to the product support page. The **Support** button can be password-protected. ● **Shop for Supplies** button: Provides a link to a page where you can order supplies for the product. The **Shop for Supplies** button can be password-protected.

Tab or section	Description
Settings tab Provides the ability to configure the product from your computer.	● **Device Information**: Allows you to name the product and assign an asset number to it. Enter the name for the primary contact who will receive information about the product. ● **Paper Handling**: Allows you to change the paper-handling defaults for the product. ● **Printing**: Allows you to change the printing defaults for the product. ● **PCL 5c**: Allows you to change the PCL 5c defaults for the product. ● **PostScript**: Allows you to change the PostScript defaults for the product. ● **Print Quality**: Allows you to change the print quality defaults for the product, including calibration settings. ● **Print Density**: Allows you to change the contrasts, highlights, midtones, and shadows values for each supply. ● **Paper Types**: Allows you to configure print modes that correspond to the media types that the product accepts. ● **System Setup**: Allows you to change the system defaults for the product. ● **Service**: Allows you to start the cleaning procedure on the product. ● **Support** button: Provides a link to the product support page. The **Support** button can be password-protected. ● **Shop for Supplies** button: Provides a link to a page where you can order supplies for the product. The **Shop for Supplies** button can be password-protected. **NOTE:** The **Settings** tab can be password-protected. If this product is on a network, always consult with the printer administrator before changing settings on this tab.
Networking tab Provides the ability to change network settings from your computer.	Network administrators can use this tab to control network-related settings for the product when it is connected to an IP-based network. This tab does not appear if the product is directly connected to a computer. **NOTE:** The **Networking** tab can be password-protected.

Configure the product using a Macintosh

The HP embedded Web server (EWS) is accessed by clicking the **Utility** button when viewing the print queue. This opens a Web browser, such as Safari, which allows the user to access the EWS. The EWS can also be accessed directly by typing the network IP address or DNS name of the product into the Web browser.

HP USB EWS Gateway software, which is automatically installed, also allows a Web browser to access the product if the product is connected using a USB cable. Click the **Utility** button when using a USB connection to access the EWS though the Web browser.

Use the EWS to perform the following tasks:

● View the device status and change device settings.

● View and change network settings for the device.

● Print information pages for the device.

● View the device event log.

Manage supplies

Print-cartridge storage

Do not remove the print cartridge from its package until you are ready to use it.

△ **CAUTION:** To prevent damage to the print cartridge, do not expose it to light for more than a few minutes.

HP policy on non-HP print cartridges

Hewlett-Packard Company cannot recommend the use of non-HP print cartridges, either new or remanufactured.

📝 **NOTE:** Any damage caused by a non-HP print cartridge is not covered under the HP warranty and service agreements.

To install a new HP print cartridge, see . To recycle the used cartridge, follow the instructions included with the new cartridge.

HP fraud hotline and Web site

Call the HP fraud hotline (1-877-219-3183, toll-free in North America) or go to www.hp.com/go/anticounterfeit when you install an HP print cartridge and the control-panel message says the cartridge is non-HP. HP will help determine if the cartridge is genuine and take steps to resolve the problem.

Your print cartridge might not be a genuine HP print cartridge if you notice the following:

● You are experiencing a high number of problems with the print cartridge.

● The cartridge does not look like it usually does (for example, the orange pull tab is missing, or the packaging differs from HP packaging).

Auto continue

An **Order Supplies** message appears when a print cartridge is nearing the end of its life. A **Replace supplies** message appears when the print cartridge is depleted. To ensure optimal print quality, HP recommends replacing a print cartridge when the **Replace supplies** message appears. Print-quality problems can occur when using a cartridge that is depleted, resulting in waste of print media and toner from other cartridges. Replacing a print cartridge when the **Replace supplies** message appears can prevent this waste.

The **Auto continue** feature in HP ToolboxFX allows the product to continue using a print cartridge that has reached the recommended replacement point.

⚠ **WARNING!**   Using the **Auto continue** feature can result in unsatisfactory print quality.

WARNING!   All print defects or supply failures incurred when an HP supply is used in cartridge-out-override mode will not be considered to be defects in materials or workmanship in the supply under the HP Print Cartridge Warranty Statement. For warranty information, see Print cartridge limited warranty statement on page 129.

You can enable or disable the **Auto continue** feature at any time, and you do not have to re-enable it when you install a new print cartridge. When the **Auto continue** feature is turned on, the product automatically continues printing when a print cartridge reaches the recommended replacement level. A **Replace Supplies Override In Use** message appears while a print cartridge is being used in override mode. When you replace the print cartridge with a new supply, the product deactivates the override mode until another print cartridge reaches the recommended replacement level.

Enable or disable the Cartridge out override feature

1.   Open HP ToolboxFX.

2.   Click the **Device Settings** folder, and then click **System Setup**.

3.   Next to **Auto continue** select **On** to enable the feature. Select **Off** to disable it.

Replace print cartridges

1. Open the front door.
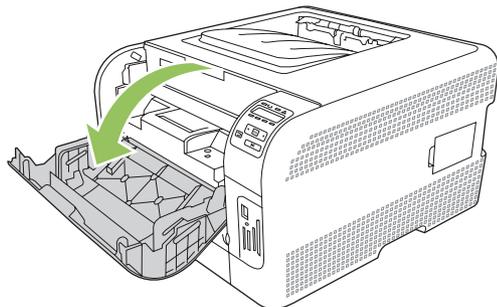
2. Pull out the print-cartridge drawer.
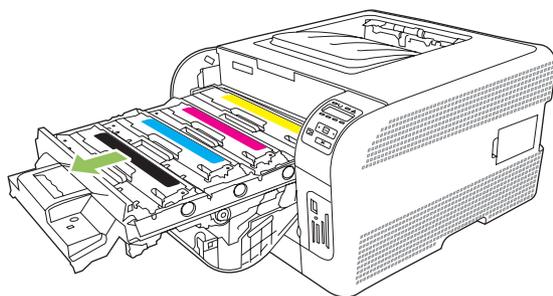
3. Grasp the handle on the old print cartridge and then pull the cartridge straight up to remove it.
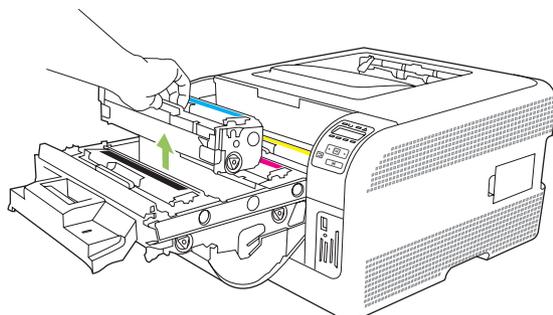
4. Remove the new print cartridge from the packaging.
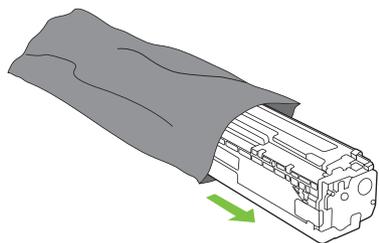
5. Remove the orange, plastic shield from the bottom of the new print cartridge.
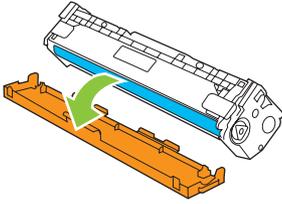
△ **CAUTION:** Do not touch the imaging drum on the bottom of the print cartridge. Fingerprints on the imaging drum can cause print-quality problems.
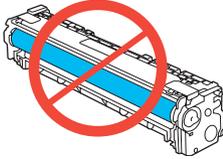
6. Insert the new print cartridge into the product.
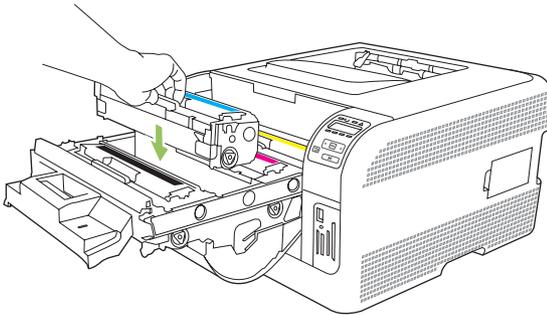
7. Pull the tab on the left side of the print cartridge straight up to completely remove the sealing tape. Discard the sealing tape.
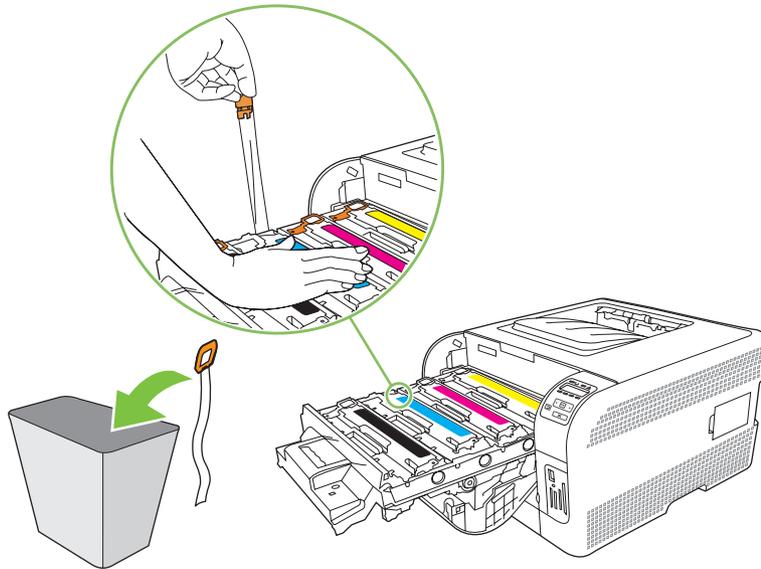
8. Close the print-cartridge drawer.
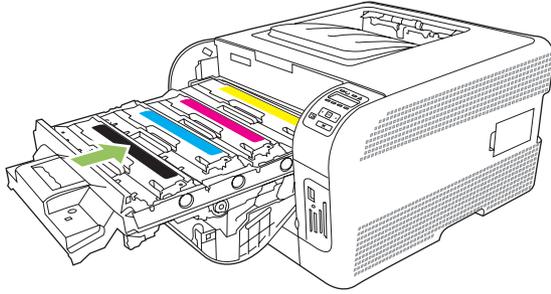
9. Close the front door.
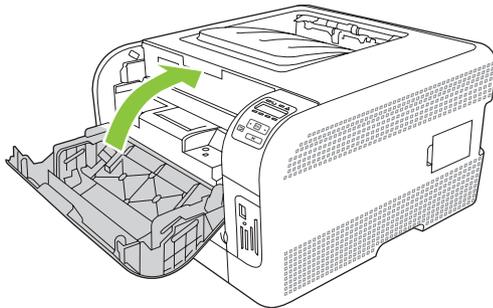
10. Place the old print cartridge in the box for the new print cartridge. Follow the recycling instructions that are included in the box.

Work with memory

Product memory

The product has one dual inline memory module (DIMM) slot. Use the DIMM slot to upgrade the product with the following items:

- More product memory (DIMMs are available in 64, 128, and 256 MB)

- Other DIMM-based printer languages and product options

NOTE: To order DIMMs, see Supplies and accessories on page 123.

You might want to increase product memory if you often print complex graphics or HP postscript level 3 emulation documents, or if you use many downloaded fonts. Additional memory also enables multiple collated copies to print at the maximum speed.

Before ordering additional memory, see how much memory is currently installed by printing a Configuration page. See Print information pages on page 68.

Install memory DIMMs

You can install more memory for the product, or you can install a font DIMM to allow the product to print characters (for example, Chinese language or the Cyrillic alphabet characters).

CAUTION: Static electricity can damage DIMMs. When handling DIMMs, either wear an antistatic wrist strap, or frequently touch the surface of the DIMM antistatic package and then touch bare metal on the product.

Install memory and font DIMMs

1. Turn the product off, and then disconnect all power and interface cables.

2. On the right side of the product, open the DIMM access door.
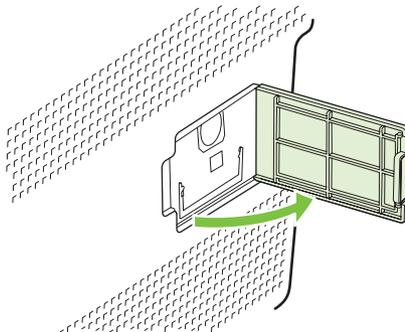
3. To replace a DIMM that is currently installed, spread the latches apart on each side of the DIMM slot, lift the DIMM up at an angle, and pull it out.
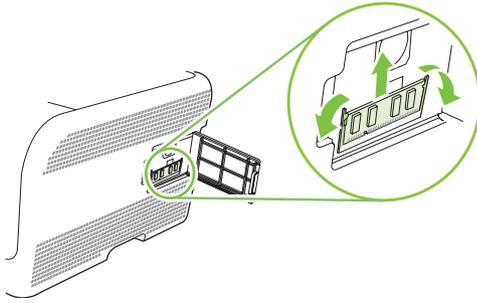
4. Remove the new DIMM from the antistatic package, and then locate the alignment notch on the bottom edge of the DIMM.
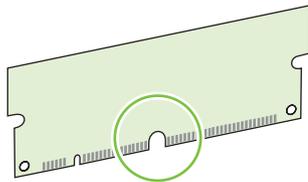
5. Holding the DIMM by the edges, align the notch on the DIMM with the bar in the DIMM slot at an angle.
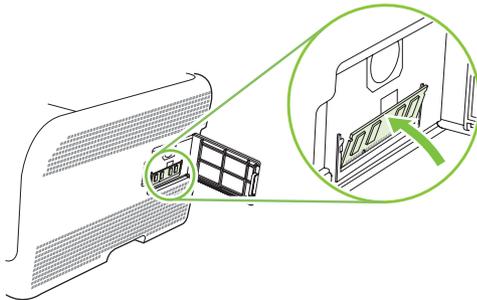
6. Push down on the DIMM until both latches engage the DIMM. When the installation is correct, the metal contacts are not visible.
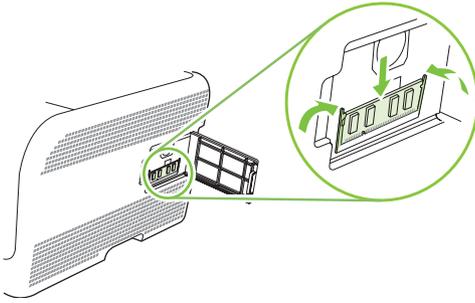
NOTE: If you have difficulty inserting the DIMM, make sure that the notch on the bottom of the DIMM is aligned with the bar in the slot. If the DIMM still does not go in, make sure that you are using the correct DIMM type.

7. Close the DIMM access door.
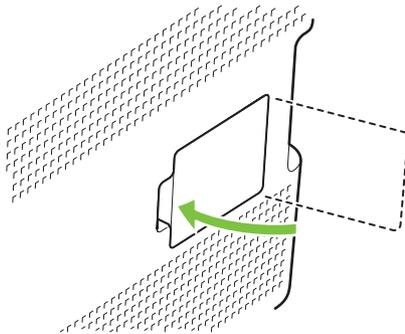
8. Reconnect the power cable and USB or network cable, and then turn on the product.

9. After installing a memory DIMM, see Enable memory on page 91.

Enable memory

If you installed a memory DIMM, set the printer driver to recognize the newly added memory.

Enable memory for Windows

1. On the **Start** menu, point to **Settings**, and click **Printers** or **Printers and Faxes**.

2. Select this product and select **Properties**.

3. On the **Configure** tab, click **More**.

4. In the **Total Memory** field, type or select the total amount of memory that is now installed.

5. Click **OK**.

Check DIMM installation

Turn the product on. Check that the product is in the **Ready** state after it has gone through the startup sequence. If an error message appears, do the following:

1. Print a Configuration page. See <u>Print information pages on page 68</u>.

2. Check the Installed Personalities and Options section on the Configuration page and compare it with the Configuration page that you printed before the DIMM installation.

3. The DIMM might not be installed correctly. Repeat the installation procedure.

    -or-

    The DIMM may be defective. Try a new DIMM.

Clean the product

During the printing process, paper, toner, and dust particles can accumulate inside the product. Over time, this buildup can cause print-quality problems such as toner specks or smearing. This product has a cleaning mode that can correct and prevent these problems.

1. Open HP ToolboxFX. See <u>View the HP ToolboxFX on page 69</u>.

2. Click the **Device Settings** folder, and then click the **Service** page.

3. In the area for **Cleaning Mode**, click **Start** to begin the cleaning process.

    The product processes a single page, and then returns to the **Ready** state when the cleaning process is complete.

Upgrade firmware

To upgrade the product firmware, download the firmware update file from <u>www.hp.com/go/ljcp1510series_software</u> and save the file to your network or personal computer.

10 Solve problems

Basic troubleshooting checklist

If you are experiencing problems with the product, use the following checklist to identify the cause of the problem:

- Is the product connected to power?
- Is the product on?
- Is the product in the **Ready** state?
- Are all necessary cables connected?
- Are genuine HP supplies installed?
- Were recently replaced print cartridges installed correctly, and was the pull tab on the cartridge removed?

For additional information about installation and setup, see the getting started guide.

If you cannot find solutions to problems in this guide, go to www.hp.com/support/ljcp1510series.

Factors that affect product performance

Several factors affect the time it takes to print a job:

- Maximum product speed, measured in pages per minute (ppm)
- The use of special paper (such as transparencies, heavy paper, and custom-size paper)
- Product processing and download time
- The complexity and size of graphics
- The speed of the computer you are using
- The USB connection

Control-panel and status-alert messages

The control-panel messages indicate the current product status or situations that might require action.

Status-alert messages appear on the computer screen (in addition to control-panel messages) when the product has certain problems. If a status-alert message is available, a ✓ appears in the **Status alert** column in the following table.

Control-panel messages appear temporarily and might require that you acknowledge the message by pressing OK to resume printing or by pressing X to cancel the job. With certain messages, the job might not finish printing or the print quality might be affected. If the message is related to printing and the auto-continue feature is on, the product will attempt to resume printing after the message has appeared for 10 seconds without acknowledgement.

For some messages, restarting the product might fix the problem. If a critical error persists, the product might require service.

Control-panel message	Status alert	Description	Recommended action
10.XXXX Supply error	✓	The e-label for one of the print cartridges cannot be read or is missing. ● 10.0000 = black e-label error ● 10.0001 = cyan e-label error ● 10.0002 = magenta e-label error ● 10.0003 = yellow e-label error ● 10.1000 = black e-label is missing ● 10.1001 = cyan e-label is missing ● 10.1002 = magenta e-label is missing ● 10.1003 = yellow e-label is missing	Reinstall the print cartridge. Turn the product off and then on. If the problem is not solved, replace the cartridge.
49 Error **Turn off then on**		The product experienced an internal error.	Turn the product off, wait at least 30 seconds, and then turn the product on and wait for it to initialize. If you are using a surge protector, remove it. Plug the product directly into the wall socket. Turn the product power on. If the message persists, contact HP support. See Service and support on page 127.
50.X Fuser error **Turn off then on**	✓	The product has experienced an error with the fuser.	Turn the product power off, wait at least 30 seconds, and then turn

Control-panel message	Status alert	Description	Recommended action
			the product power on and wait for it to initialize.
			Turn off the product, wait at least 25 minutes, and then turn on the product.
			If you are using a surge protector, remove it. Plug the product directly into the wall socket. Turn the product power on.
			If the message persists, contact HP support. See Service and support on page 127.
51.XX Error **Turn off then on**	✓	The product has experienced an internal hardware error.	Turn the product power off, wait at least 30 seconds, and then turn the product power on and wait for it to initialize.
			If you are using a surge protector, remove it. Plug the product directly into the wall socket. Turn the product on.
			If the message persists, contact HP support. See Service and support on page 127.
54.XX Error **Turn off then on**	✓	The product has experienced an error with one of the internal sensors.	Turn the product power off, wait at least 30 seconds, and then turn the product power on and wait for it to initialize.
			If you are using a surge protector, remove it. Plug the product directly into the wall socket. Turn the product power on.
			If the message persists, contact HP support. See Service and support on page 127.
55.X Error **Turn off then on**	✓	The product has experienced an internal error.	Turn the product power off, wait at least 30 seconds, and then turn the product power on and wait for it to initialize.
			If you are using a surge protector, remove it. Plug the product directly into the wall socket. Turn the product power on.
			If the message persists, contact HP support. See Service and support on page 127.
57 Fan error **Turn off then on**	✓	The product has experienced a problem with its internal fan.	Turn the product power off, wait at least 30 seconds, and then turn the product power on and wait for it to initialize.

Control-panel message	Status alert	Description	Recommended action
			If you are using a surge protector, remove it. Plug the product directly into the wall socket. Turn the product power on.
			If the message persists, contact HP support. See Service and support on page 127.
59.X Error **Turn off then on**	✓	The product has experienced a problem with one of the motors.	Turn the product power off, wait at least 30 seconds, and then turn the product power on and wait for it to initialize.
			If you are using a surge protector, remove it. Plug the product directly into the wall socket. Turn the product power on.
			If the message persists, contact HP support. See Service and support on page 127.
79 Error **Turn off then on**		The product has experienced an internal firmware error.	Turn the product power off, wait at least 30 seconds, and then turn the product power on and wait for it to initialize.
			If you are using a surge protector, remove it. Plug the product directly into the wall socket. Turn the product power on.
			If the message persists, contact HP support. See Service and support on page 127.
79 Service error **Turn off then on**		An incompatible DIMM is installed.	1. Turn the product power off. 2. Install a DIMM that the product supports. See Service and support on page 127 for a list of supported DIMMs. See Install memory DIMMs on page 88 for DIMM installation instructions. 3. Turn the product on. If the message persists, contact HP support. See Service and support on page 127.
<Color> in wrong position	✓	A print cartridge is installed in the incorrect slot.	Be sure that each print cartridge is in the correct slot. From top to bottom, the print cartridges are installed in this order: yellow, magenta, cyan, black.
Device error **Press [OK]**		An internal error occurred.	Press OK to resume the job.

Control-panel message	Status alert	Description	Recommended action
Front Door open	✓	The product front door is open.	Close the door.
Genuine HP supply installed		A genuine HP supply was installed. This message will appear briefly after the supply is installed and then be replaced by the message Ready.	No action necessary.
Incorrect supplies	✓	More than one print cartridge is installed in the incorrect slot.	Be sure that each print cartridge is in the correct slot. From top to bottom, the print cartridges are installed in this order: yellow, magenta, cyan, black.
Install <Color> cartridge	✓	The cartridge is either not installed or not correctly installed in the product.	Install the print cartridge. See Replace print cartridges on page 85.
Invalid driver **Press [OK]**	✓	You are using an incorrect printer driver.	Select the correct printer driver.
Jam in <location>	✓	The product has detected a jam.	Clear the jam from the location indicated. The job should continue to print. If it does not, try reprinting the job. If the message persists, contact HP support. See Service and support on page 127.
Load paper	✓	Tray 2 is empty.	Load print media into tray 2.
Load tray # <TYPE> <SIZE>	✓	A tray is configured for the media type and size that the print job is requesting, but that tray is empty.	Load the correct media into the tray, or press OK to use media in a different tray.
Load tray 1 plain <SIZE> **Cleaning mode [OK] to start**	✓	The product is ready to process the cleaning operation.	Load tray 1 with plain paper in the size indicated, and then press OK.
Load tray 1 <TYPE> <SIZE>	✓	No trays are configured for the media type and size that the print job is requesting.	Load the correct media into tray 1, or press OK to use media in a different tray.
Manual duplex **Load tray # Press [OK]**		The first side of a manual duplex job has printed, and the page needs to be loaded to process the second side.	Load the page in the indicated tray with the side to be printed face up, and the top of the page away from you and then press OK.
Manual feed <TYPE> <SIZE> **Press [OK] for available media**	✓	The product is set for manual feed mode.	Press OK to clear the message *or* load the correct media into tray 1.
Memory is low **Press [OK]**	✓	The product memory is almost full.	Press OK to finish the job, or press X to cancel the job. Break the job into smaller jobs that contain fewer pages. For information about increasing the product memory, see Install memory DIMMs on page 88.

Control-panel message	Status alert	Description	Recommended action
Misprint **Press [OK]**	✓	Print media has been delayed as it moves through the product.	Press OK to clear the message.
Non HP supply installed	✓	A non-HP supply is installed.	If you believe you purchased an HP supply, go to www.hp.com/go/anticounterfeit. Service or repairs that are required as a result of using non-HP supplies are not covered under HP warranty.
Order <color> cartridge	✓	The identified print cartridge is nearing the end of its useful life.	Order the identified print cartridge. Printing will continue until **Replace <color> cartridge** appears. See Supplies and accessories on page 123 for more information.
Order supplies	✓	More than one supply item is low.	Check the supply-level gauges on the control panel, or print a Supplies status page to determine which cartridges are low. See Print information pages on page 68. Order the identified print cartridges. Printing will continue until **Replace <color> cartridge** appears. See Supplies and accessories on page 123 for more information.
Print failure **Press [OK] If error repeats turn off then on**	✓	The product cannot process the page.	Press OK to continue printing the job, but output might be affected. If the error persists, turn the power off and then on. Resend the print job.
Rear Door open	✓	The product rear door is open.	Close the door.
Remove shipping locks from <color> cartridge	✓	A print cartridge shipping lock is installed.	Be sure that the print cartridge shipping lock has been removed.
Remove shipping locks from all cartridges	✓	A print cartridge shipping lock is installed on one or more print cartridges.	Be sure that each print cartridge shipping lock has been removed.
Replace <color> cartridge	✓	The print cartridge is empty.	Replace the cartridge. See Replace print cartridges on page 85.
Replace supply **Override in use**	✓	The **Print quality** menu item **Replace supplies** is set to **Override out**.	You can continue printing until you notice a decrease in print quality. See System setup menu on page 46.

Control-panel message	Status alert	Description	Recommended action
Tray 2 jam **Clear jam and then Press [OK]**	✓	The product has detected a jam.	Clear the jam from the location indicated, and then press OK. If the message persists, contact HP support. See Service and support on page 127.
Unexpected size in tray # **Load [size] Press [OK]**	✓	The product has detected print media in the tray that does not match the configuration for the tray.	Load the correct media into the tray, or configure the tray for the size that you have loaded. See Load paper and print media on page 19.
Used <color> Cartridge in use	✓	A refilled print cartridge was detected and accepted.	No action necessary.
Used supplies in use	✓	Refilled print cartridges are installed.	No action necessary.
Used supply installed **To accept Press [OK]**	✓	A refilled print cartridge is installed.	Press OK to continue.

Jams

Use this illustration to find the locations of jams. For instructions to clear jams, see Clear jams on page 103.
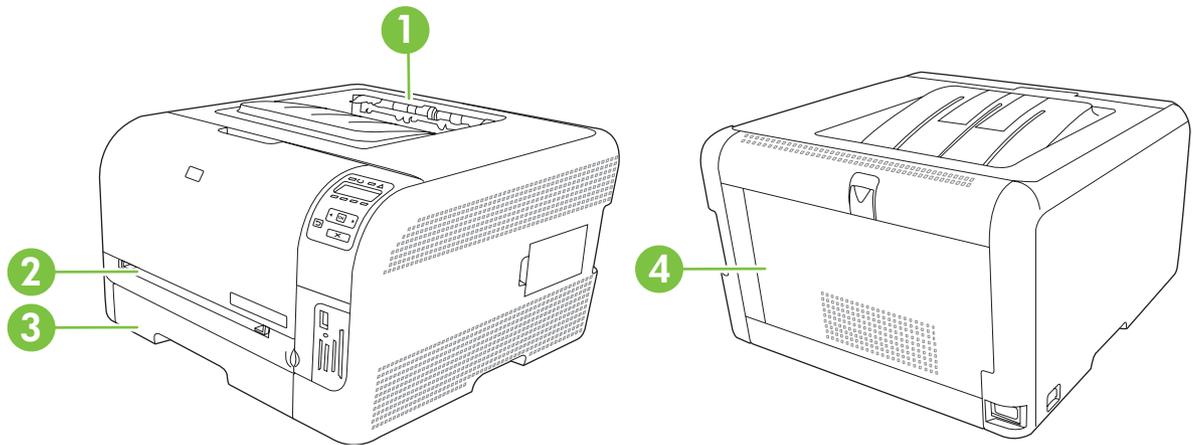
1	Output bin
2	tray 1
3	tray 2
4	Fuser (behind the rear door)

Recover jams

When the Jam Recovery feature is turned on, the product reprints any pages that are damaged during a jam.

Use HP ToolboxFX to turn on the Jam Recovery feature.

1. Open HP ToolboxFX. See HP ToolboxFX on page 11.

2. Click the **Device Settings** folder, and then click **System Setup**.

3. Next to **Jam Recovery**, select **On** from the drop-down list.

Common causes of jams

Common causes of jams[1]

Cause	Solution
The paper length and width guides are not adjusted correctly.	Adjust the guides so they are against the paper stack.
The media does not meet specifications.	Use only media that meets HP specifications. See Paper and print media on page 13.
You are using media that has already passed through a printer or copier.	Do not use media that has been previously printed on or copied.
An input tray is loaded incorrectly.	Remove any excess media from the input tray. Make sure that the stack is below the maximum stack height mark in the tray. See Load paper and print media on page 19.
The media is skewed.	The input-tray guides are not adjusted correctly. Adjust them so they hold the stack firmly in place without bending it.
The media is binding or sticking together.	Remove the media, flex it, rotate it 180 degrees, or flip it over. Reload the media into the input tray. **NOTE:** Do not fan paper. Fanning can create static electricity, which can cause paper to stick together.
The media is removed before it settles into the output bin.	Wait until the page completely settles in the output bin before removing it.
The media is in poor condition.	Replace the media.
The internal rollers from the tray are not picking up the media.	Remove the top sheet of media. If the media is heavier than 163 g/m^2 (43 lb), it might not be picked from the tray.
The media has rough or jagged edges.	Replace the media.
The media is perforated or embossed.	Perforated or embossed media does not separate easily. Load sheets one at a time.
Paper was not stored correctly.	Replace the paper in the trays. Paper should be stored in the original packaging in a controlled environment.

[1] If the product continues to jam, contact HP Customer Support or your authorized HP service provider.

Clear jams

Jam in tray 1

NOTE: If the sheet tears, make sure that all of the fragments are removed before you resume printing.

1. If you can see the jammed sheet, remove the jammed sheet by pulling it straight out.
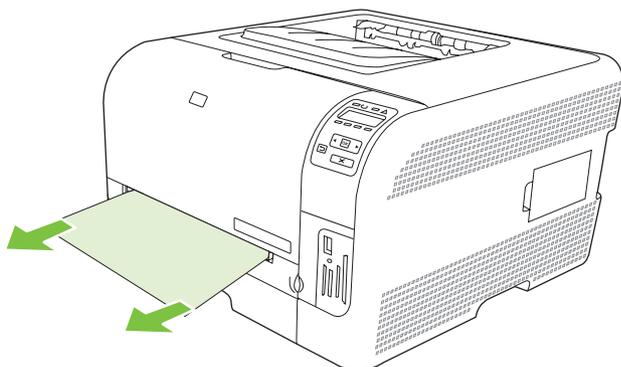
2. If you cannot see the jammed sheet, open the tray 1 door and pull out tray 2.
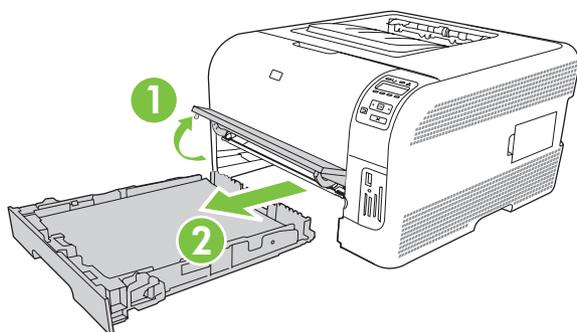
3. Push down on two tabs to release the tray 1 panel.
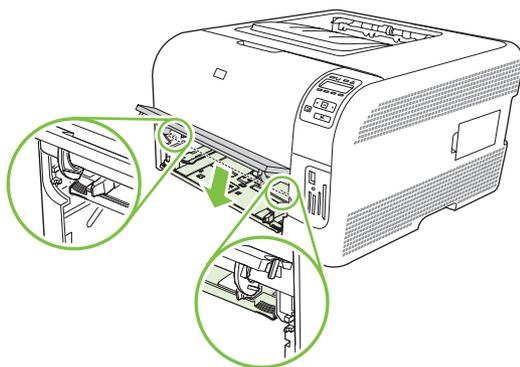
4. Remove the jammed sheet by pulling it straight out.

△ **CAUTION:** Do not pull up on the jammed sheet. Be sure to pull it straight out.
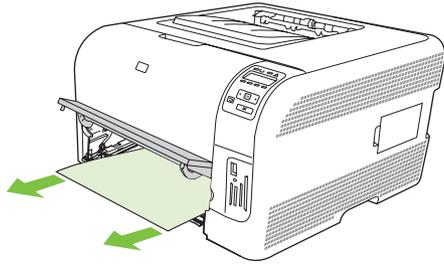
5. Push up on two tabs to replace the tray 1 panel.
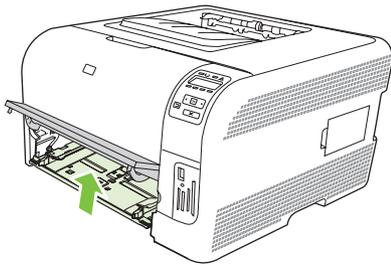
6. Replace tray 2.
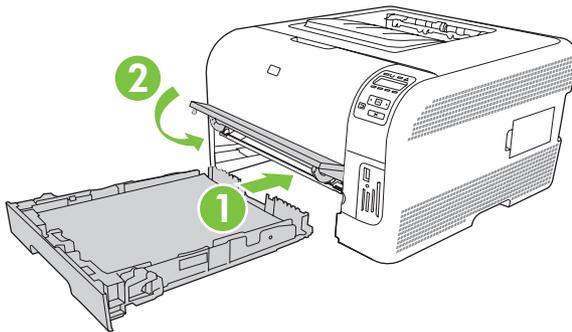
Jam in tray 2

1. Pull out tray 2 and place it on a flat surface.
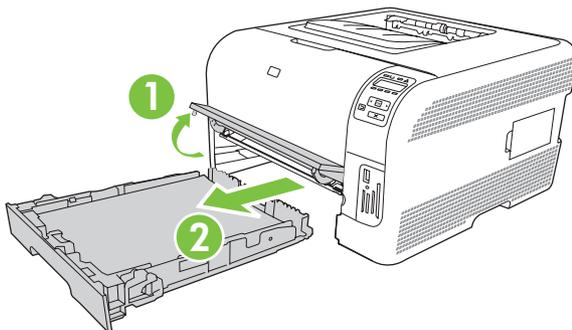
2. Remove the jammed sheet by pulling it straight out.
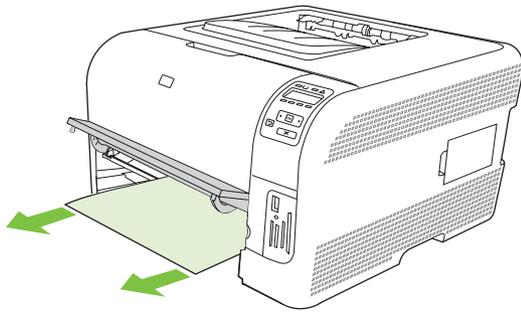
3. Replace tray 2.
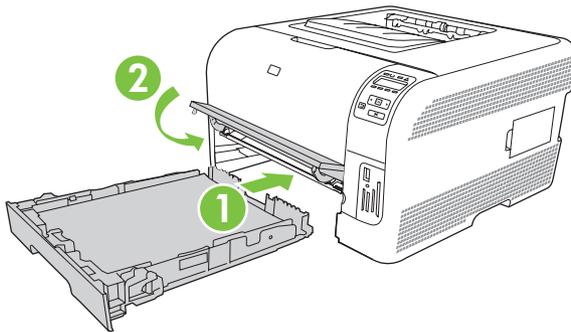
4. Press **OK** to continue printing.

Jam in fuser area

1. Open the rear door.
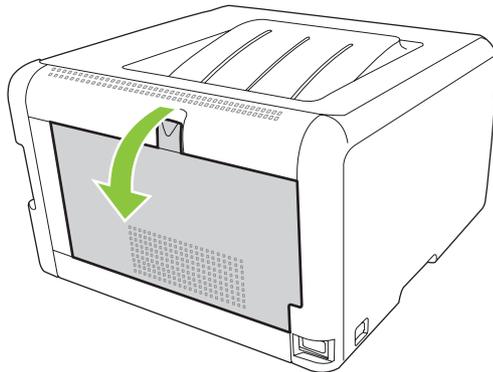
2. Remove any jammed sheets.
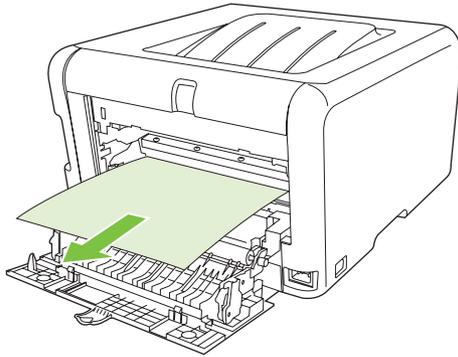
NOTE: If the sheet tears, make sure that all fragments are removed before you resume printing.

3. Close the rear door.
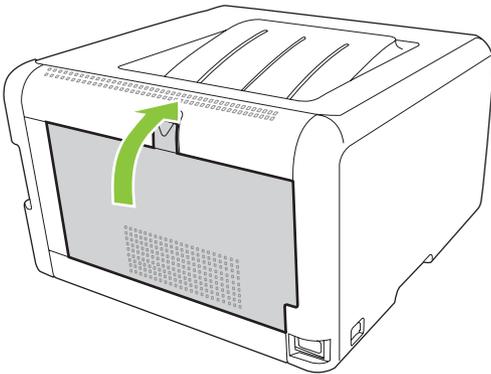
Jam in output bin

1. Look for jammed paper in the output bin area.

2. Remove any visible media.

   NOTE: If the sheet tears, make sure that all fragments are removed before resuming printing.
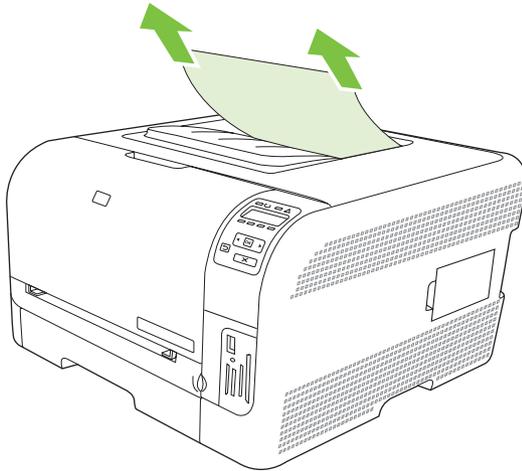
3. Open and then close the rear door to clear the message.
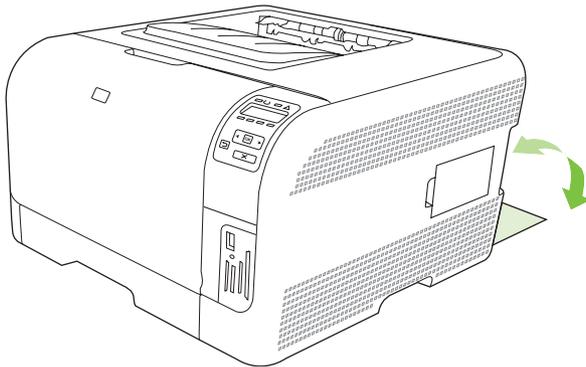
Print-quality problems

Occasionally, you might encounter problems with print quality. The information in the following sections helps you identify and resolve these issues.

Improve print quality

Always make sure that the **Type is** setting in the printer driver matches the type of paper that you are using.

Use the print-quality settings in the printer driver to prevent print-quality problems. See Open the printer driver and change the print settings on page 10.

Use the **Device Settings** area in HP ToolboxFX to adjust settings that affect print quality. See View the HP ToolboxFX on page 69.

Also use HP ToolboxFX to help troubleshoot print-quality problems. See Use HP ToolboxFX to troubleshoot print-quality problems on page 115.

Identify and correct print defects

Use the checklist and print-quality issues charts in this section to solve print-quality problems.

Print-quality checklist

General print-quality problems can be solved by using the following checklist:

1. Make sure that the paper or print media that you are using meets specifications. Generally, smoother paper provides better results.

2. If you are using a special print media such as labels, transparencies, glossy, or letterhead, ensure that you have printed by type.

3. Print a Configuration page and Supplies status page. See Print information pages on page 68.

    ◦   Check the Supplies status page to see if any supplies are low or empty. No information is provided for non-HP print cartridges.

    ◦   If the pages do not print correctly, the problem is with the hardware. Contact HP Customer Care. See Service and support on page 127 or the flyer that came in the box.

4. Print a Demo page from HP ToolboxFX. If the page prints, the problem is with the printer driver.

5. Try printing from a different program. If the page prints correctly, the problem is with the program from which you were printing.

6. Restart the computer and the product and try printing again. If the problem is not resolved, choose one of these options:

    ◦   If the problem is affecting all printed pages, see General print quality issues on page 109.

    ◦   If the problem is affecting only pages printed in color, see Solve issues with color documents on page 113.

General print quality issues

The following examples depict Letter-size paper that has passed through the product short-edge first. These examples illustrate problems that would affect all of the pages that you print, whether you print in color or in black only. The topics that follow list the typical cause and solution for each of these examples.

Problem	Cause	Solution
Print is light or faded. AaBbCc AaBbCc AaBbCc AaBbCc AaBbCc	The media might not meet HP specifications.	Use media that meets HP specifications.
	One or more print cartridges might be defective.	Print the Supplies status page to check the remaining life. See Print information pages on page 68. Replace any low print cartridges. See Replace print cartridges on page 85.
	The product is set to override the **Replace <color> cartridge** message and to continue printing.	Replace any low print cartridges. See Replace print cartridges on page 85.
Toner specks appear. AaBbCc AaBbCc AaBbCc AaBbCc AaBbCc	The media might not meet HP specifications.	Use media that meets HP specifications.
	The paper path might need cleaning.	Clean the paper path. See Clean the product on page 91.
Dropouts appear. AaBbCc AaBbCc AaBbCc AaBbCc AaBbCc	A single sheet of print media might be defective.	Try reprinting the job.
	The moisture content of the paper is uneven or the paper has moist spots on its surface.	Try different paper, such as high-quality paper that is intended for color laser printers.
	The paper lot is flawed. The manufacturing processes can cause some areas to reject toner.	Try different paper, such as high-quality paper that is intended for color laser printers.
Vertical streaks or bands appear on the page. Aa Bb C c Aa Bb C c Aa Bb C c Aa Bb C c Aa Bb C c	One or more print cartridges might be defective.	Print the Supplies status page to check the remaining life. See Print information pages on page 68. Replace any low print cartridges. See Replace print cartridges on page 85.
	The product is set to override the **Replace <color> cartridge** message and to continue printing.	Replace any low print cartridges. See Replace print cartridges on page 85.
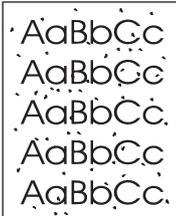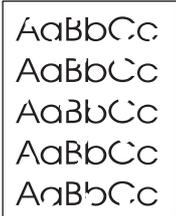
Problem	Cause	Solution
The amount of background toner shading becomes unacceptable. AaBbCc AaBbCc AaBbCc AaBbCc AaBbCc	Very dry (low humidity) conditions can increase the amount of background shading.	Check the device environment.
	The extended print mode setting is incorrect. Try the print job again using the Transfer extended print mode, Dry paper setting.	See Extended Print Modes on page 76.
	One or more print cartridges might be defective.	Replace any low print cartridges. See Replace print cartridges on page 85.
	The product is set to override the **Replace <color> cartridge** message and to continue printing.	Replace any low print cartridges. See Replace print cartridges on page 85.
Toner smears appear on the media. AaBbCc AaBbCc AaBbCc AaBbCc AaBbCc	The media might not meet HP specifications.	Use media that meets HP specifications.
	If toner smears appear on the leading edge of the paper, the media guides are dirty, or debris has accumulated in the print path.	Clean the media guides. Clean the paper path. See Clean the product on page 91.
The toner smears easily when touched. AaBbCc AaBbCc AaBbCc AaBbCc AaBbCc	The device is not set to print on the type of media on which you want to print.	In the printer driver, select the **Paper** tab and set **Type is** to match the type of media on which you are printing. Print speed might be slower if you are using heavy paper.
	The media might not meet HP specifications.	Use media that meets HP specifications.
	The paper path might need cleaning.	Clean the paper path. See Clean the product on page 91.
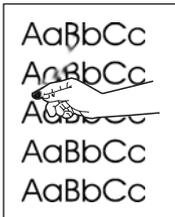
Problem	Cause	Solution
Marks repeatedly appear at even intervals on the printed side of the page. AaBbCc AaBbCc AaBbCc AaBbCc AaBbCc	The device is not set to print on the type of media on which you want to print.	In the printer driver, select the **Paper** tab and set **Type is** to match the type of paper on which you are printing. Print speed might be slower if you are using heavy paper.
	Internal parts might have toner on them.	The problem typically corrects itself after a few more pages.
	The paper path might need cleaning.	Clean the paper path. See Clean the product on page 91.
	The fuser might be damaged or dirty.	To determine if the fuser has a problem, open the HP ToolboxFX and print the print-quality diagnostics page. See View the HP ToolboxFX on page 69. Contact HP Customer Care. See Service and support on page 127 or the support flyer that came in the box.
	A print cartridge may have a problem.	To determine which cartridge has a problem, open the HP ToolboxFX and print the print-quality diagnostics page. See View the HP ToolboxFX on page 69.
Marks repeatedly appear at even intervals on the unprinted side of the page.	Internal parts might have toner on them.	The problem typically corrects itself after a few more pages.
	The paper path might need cleaning.	Clean the paper path. See Clean the product on page 91.
	The fuser might be damaged or dirty.	To determine if the fuser has a problem, open the HP ToolboxFX and print the print-quality diagnostics page. See View the HP ToolboxFX on page 69. Contact HP Customer Care. See Service and support on page 127 or the support flyer that came in the box.
The printed page contains misformed characters. AaBbCc AaBbCc AaBbCc AaBbCc AaBbCc AaBbCc	The media might not meet HP specifications.	Use a different paper, such as high-quality paper that is intended for color laser printers.
	If characters are incorrectly formed so that they produce a wavy effect, the laser scanner might need service.	Verify that the problem also occurs on the Configuration page. If so, contact HP Customer Care. See Service and support on page 127 or the support flyer that came in the box.
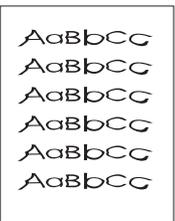
Problem	Cause	Solution
The printed page is curled or wavy.	The device is not set to print on the type of media on which you want to print.	In the printer driver, select the **Paper** tab and set **Type is** to match the type of paper on which you are printing. Print speed might be slower if you are using heavy paper.
	The **Service** menu item **Less paper curl** is set to **Off**.	Use the control-panel menus to change the setting. See Use the control-panel menus on page 44.
	The media might not meet HP specifications.	Use a different paper, such as high-quality paper that is intended for color laser printers.
	Both high temperature and humidity can cause paper curl.	Check the device environment.
Text or graphics are skewed on the printed page.	The media might be loaded incorrectly.	Make sure that the paper or other print media is loaded correctly and that the media guides are not too tight or too loose against the stack. See Load paper and print media on page 19.
	The media might not meet HP specifications.	Use a different paper, such as high-quality paper that is intended for color laser printers.
The printed page contains wrinkles or creases.	The media might be loaded incorrectly.	Verify that the media is loaded correctly and that the media guides are not too tight or too loose against the stack. See Load paper and print media on page 19. Turn over the stack of paper in the input tray, or try rotating the paper 180° in the input tray.
	The media might not meet HP specifications.	Use a different paper, such as high-quality paper that is intended for color laser printers.
Toner appears around the printed characters.	The media might be loaded incorrectly.	Turn over the stack of paper in the tray.
	If large amounts of toner have scattered around the characters, the paper might have high resistivity.	Use a different paper, such as high-quality paper that is intended for color laser printers.
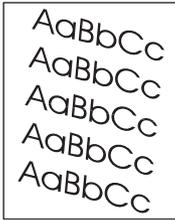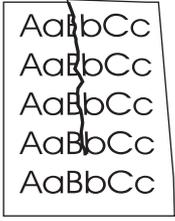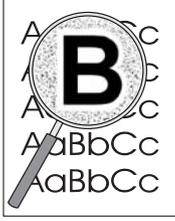
Problem	Cause	Solution
An image that appears at the top of the page (in solid black) repeats farther down the page (in a gray field). AaBbCc AaBbCc AaBbCc AaBbCc AaBbCc	Software settings might affect image printing.	In your software program, change the tone (darkness) of the field in which the repeated image appears. In your software program, rotate the whole page 180° to print the lighter image first.
	The order of images printed might affect printing.	Change the order in which the images are printed. For example, have the lighter image at the top of the page, and the darker image farther down the page.
	A power surge might have affected the device.	If the defect occurs later in a print job, turn the device off for 10 minutes, and then turn on the device to restart the print job.

Solve issues with color documents

This section describes issues that can occur when you print in color.

Problem	Cause	Solution
Only black is printing when the document should be printing in color. AaBbCc AaBbCc AaBbCc AaBbCc AaBbCc	Color mode is not selected in your program or printer driver.	Select color mode instead of grayscale mode.
	The correct printer driver might not be selected in the program.	Select the correct printer driver.
	The device might not be correctly configured.	Print a Configuration page (see Print information pages on page 68). If no color appears on the Configuration page, contact HP Customer Care. See Service and support on page 127 or the support flyer that came in the box.
One or more colors are not printing, or are inaccurate. AaBbCc AaBbCc AaBbCc AaBbCc AaBbCc	Sealing tape might be on the print cartridges.	Verify that the sealing tape has been completely removed from the print cartridges.
	The media might not meet HP specifications.	Use a different paper, such as high-quality paper that is intended for color laser printers.
	The device might be operating in excessively humid conditions.	Verify that the device environment is within humidity specifications.
	One or more print cartridges might be defective.	Replace any low print cartridges. See Replace print cartridges on page 85.
	The product is set to override the **Replace <color> cartridge** message and to continue printing.	Replace any low print cartridges. See Replace print cartridges on page 85.

Problem	Cause	Solution
A color is printing inconsistently after you load a new print cartridge. AaBbCc AaBbCc AaBbCc AaBbCc AaBbCc	Another print cartridge might be defective.	Remove the print cartridge for the color that is printing inconsistently and reinstall it.
	The product is set to override the **Replace <color> cartridge** message and to continue printing.	Replace any low print cartridges. See Replace print cartridges on page 85.
The colors on the printed page do not match the colors as they appear on the screen. AaBbCc AaBbCc AaBbCc AaBbCc AaBbCc AaBbCc AaBbCc AaBbCc AaBbCc AaBbCc	The colors on your computer monitor might differ from the device output.	See Match colors on page 56
	If extremely light colors or extremely dark colors on screen are not printing, your software program might interpret extremely light colors as white or extremely dark colors as black.	If possible, avoid using extremely light or extremely dark colors.
	The media might not meet HP specifications.	Use a different paper, such as high-quality paper that is intended for color laser printers.
The finish on the printed color page is inconsistent. AaBbCc AaBbCc AaBbCc AaBbCc AaBbCc	The media might be too rough.	Use a smooth paper or print media, such as a high-quality paper that is made for color laser printers. Generally, smoother media produces better the results.
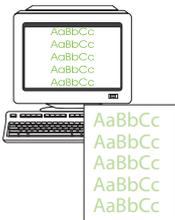
Use HP ToolboxFX to troubleshoot print-quality problems

NOTE: Before proceeding, print a Supplies status page to see the approximate number of pages remaining for each print cartridge. See Print information pages on page 68.

From the HP ToolboxFX software you can print a page that helps identify which print cartridge is causing the problem. The print-quality troubleshooting page prints five bands of color, which are divided into four overlapping sections. By examining each section, you can isolate the problem to a particular cartridge.
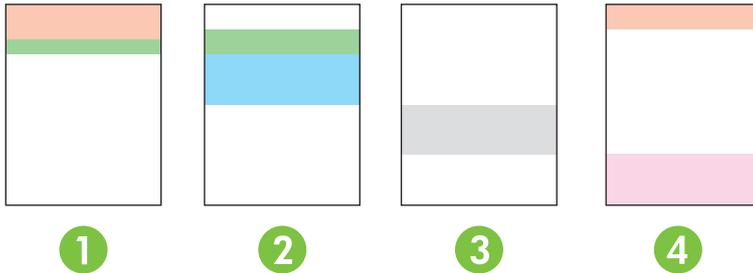
Section	Print-cartridge
1	Yellow
2	Cyan
3	Black
4	Magenta

- If a mark or spot appears in only one section, replace the print cartridge that corresponds to that section.

- If a mark or line appears in more than one section, replace the print cartridge that matches the color of the mark or line.

- If a *repeating* pattern of dots, marks, or lines appears on the page, clean the product. See Clean the product on page 91. After cleaning the product, print another print-quality troubleshooting page to see if the defect is gone.

- If the problem persists, try the following:

  - See Print-quality problems on page 108 in this guide.

  - Go to www.hp.com/support/ljcp1510series.

  - Contact HP Customer Care. See HP Care Pack™ Services and Service Agreements on page 132 in this guide.

Print the print-quality troubleshooting page

1. Open HP ToolboxFX. See View the HP ToolboxFX on page 69.

2. Click the **Help** folder, and then click the **Troubleshooting** page.

3. Click the **Print** button, and then follow the directions on the printed pages.

Calibrate the product

If you experience any print-quality problems, calibrate the product.

1. Open HP ToolboxFX. See .

2. Click the **Device Settings** folder, and then click the **Print Quality** page.

3. In the area for Color Calibration, select the **Calibrate Now** check box.

4. Click **Apply** to calibrate the product immediately.

Performance problems

Problem	Cause	Solution
Pages print but are totally blank.	The sealing tape might still be in the print cartridges.	Verify that the sealing tape has been completely removed from the print cartridges.
	The document might contain blank pages.	Check the document that you are printing to see if content appears on all of the pages.
	The product might be malfunctioning.	To check the product, print a Configuration page.
Pages print very slowly.	Heavier media types can slow the print job.	Print on a different type of media.
	Complex pages can print slowly.	Proper fusing may require a slower print speed to ensure the best print quality.
Pages did not print.	The product might not be pulling media correctly.	Make sure paper is loaded in the tray correctly.
		If the problem persists, you might need to replace the pickup rollers and the separation pad. See Service and support on page 127.
	The media is jamming in the device.	Clear the jam. See Jams on page 101.
	The USB cable might be defective or incorrectly connected.	● Disconnect the USB cable at both ends and reconnect it.
		● Try printing a job that has printed in the past.
		● Try using a different USB cable.
	Other devices are running on your computer.	The product might not share a USB port. If you have an external hard drive or network switchbox that is connected to the same port as the product, the other device might be interfering. To connect and use the product, you must disconnect the other device or you must use two USB ports on the computer.

Product software problems

Problem	Solution
A printer driver for the product is not visible in the **Printer** folder	• Reinstall the product software. **NOTE:** Close any applications that are running. To close an application that has an icon in the system tray, right-click the icon, and select **Close** or **Disable**. • Try plugging the USB cable into a different USB port on the computer.
An error message was displayed during the software installation	• Reinstall the product software. **NOTE:** Close any applications that are running. To close an application that has an icon in the task bar, right-click the icon, and select **Close** or **Disable**. • Check the amount of free space on the drive where you are installing the product software. If necessary, free up as much space as you can, and reinstall the product software. • If necessary, run the Disk Defragmenter, and reinstall the product software.
The product is in Ready mode, but nothing prints	• Print a Configuration page, and verify the product functionality. • Verify that all of the cables are correctly seated and within specifications. This includes the USB and power cables. Try a new cable.

Macintosh problems

Solve problems with Mac OS X

> **NOTE:** If you are installing the product using a USB connection, **do not** connect the USB cable to the device and the computer before you install the software. Connecting the USB cable will cause the Mac OS X to automatically install the product, but the installation will be faulty. You must then uninstall the product, disconnect the USB cable, reinstall the software from the product CD-ROM, and reconnect the USB cable when the software prompts you.

The printer driver is not listed in the Print Center or Printer Setup Utility.

Cause	Solution
The product software might not have been installed or was installed incorrectly.	Make sure that the product PPD file is in the following hard-drive folder: LIBRARY/PRINTERS/PPDS/CONTENTS/RESOURCES/ <LANG>.LPROJ, where <lang> is the two-letter language code for the language that you are using. If necessary, reinstall the software. See the getting started guide for instructions.
The PPD file is corrupt.	Delete the PPD file from the following hard-drive folder: LIBRARY/ PRINTERS/PPDS/CONTENTS/RESOURCES/<LANG>.LPROJ, where <lang> is the two-letter language code for the language that you are using. Reinstall the software. See the getting started guide for instructions.

The product name, IP address, or Rendezvous host name does not appear in the printer list in the Print Center or Printer Setup Utility.

Cause	Solution
The product might not be ready.	Make sure that the cables are connected correctly, the product is on, and the Ready light is on. If you are connecting through a USB or Ethernet hub, try connecting directly to the computer or use a different port.
The wrong connection type might be selected.	Make sure that USB, IP Printing, or Rendezvous is selected, depending on the type of connection.
The wrong product name, IP address, or Rendezvous host name is being used.	Print a Configuration page (see Print information pages on page 68). Verify that the product name, IP address, or Rendezvous host name on the Configuration page matches the product name, IP address, or Rendezvous host name in the Print Center or Printer Setup Utility.
The interface cable might be defective or of poor quality.	Replace the interface cable with a high-quality cable.

The printer driver does not automatically set up your selected product in the Print Center or Printer Setup Utility.

Cause	Solution
The product might not be ready.	Make sure that the cables are connected correctly, the product is on, and the Ready light is on. If you are connecting through a USB or Ethernet hub, try connecting directly to the computer or use a different port.
The product software might not have been installed or was installed incorrectly.	Make sure that the product PPD file is in the following hard-drive folder: LIBRARY/PRINTERS/PPDS/CONTENTS/RESOURCES/

The printer driver does not automatically set up your selected product in the Print Center or Printer Setup Utility.

Cause	Solution
	`<LANG>.LPROJ`, where <lang> is the two-letter language code for the language that you are using. If necessary, reinstall the software. See the getting started guide for instructions.
The PPD file is corrupt.	Delete the PPD file from the following hard-drive folder: `LIBRARY/PRINTERS/PPDS/CONTENTS/RESOURCES/<LANG>.LPROJ`, where <lang> is the two-letter language code for the language that you are using. Reinstall the software. See the getting started guide for instructions.
The interface cable might be defective or of poor quality.	Replace the interface cable with a high-quality cable.

A print job was not sent to the product that you wanted.

Cause	Solution
The print queue might be stopped.	Restart the print queue. Open **Print Monitor** and select **Start Jobs**.
The wrong product name, IP address, or Rendezvous host name is being used.	Print a Configuration page (see Print information pages on page 68). Verify that the product name, IP address, or Rendezvous host name on the Configuration page matches the product name, IP address, or Rendezvous host name in the Print Center or Printer Setup Utility.

An EPS file prints with incorrect fonts.

Cause	Solution
This problem occurs with some programs.	- Try downloading the fonts that are contained in the EPS file to the product before printing. - Send the file in ASCII format instead of binary encoding.

You are unable to print from a third-party USB card.

Cause	Solution
This error occurs when the software for USB printers is not installed.	When adding a third-party USB card, you might need the Apple USB Adapter Card Support software. The most current version of this software is available from the Apple Web site.

When connected with a USB cable, the product does not appear in the Print Center or Printer Setup Utility after the driver is selected.

Cause	Solution
This problem is caused by either a software or a hardware component.	**Software troubleshooting** - Check that your Macintosh supports USB and has the appropriate USB software from Apple. - Verify that your Macintosh operating system is Mac OS X V10.28 or later.

When connected with a USB cable, the product does not appear in the Print Center or Printer Setup Utility after the driver is selected.

Cause	Solution
	Hardware troubleshooting
	● Check that the product is turned on.
	● Verify that the USB cable is connected correctly.
	● Check that you are using the appropriate high-speed USB cable.
	● Ensure that you do not have too many USB devices drawing power from the chain. Disconnect all of the devices from the chain, and connect the cable directly to the USB port on the host computer.
	● Check to see if more than two nonpowered USB hubs are connected in a row on the chain. Disconnect all of the devices from the chain and connect the cable directly to the USB port on the host computer.
	NOTE: The iMac keyboard is a nonpowered USB hub.

A Supplies and accessories

- To order supplies in the U.S., go to www.hp.com/sbso/product/supplies.

- To order supplies worldwide, go to www.hp.com/ghp/buyonline.html.

- To order supplies in Canada, go to www.hp.ca/catalog/supplies.

- To order supplies in Europe, go to www.hp.com/go/ljsupplies.

- To order supplies in Asia-Pacific, go to www.hp.com/paper/.

- To order accessories, go to www.hp.com/go/accessories.

Order parts, accessories, and supplies

Several methods are available for ordering parts, supplies, and accessories.

Order directly from HP

You can obtain the following items directly from HP:

- **Replacement parts:** To order replacement parts in the U.S., go to www.hp.com/go/hpparts. Outside the United States, order parts by contacting your local authorized HP service center.

- **Supplies and accessories:** To order supplies in the U.S., go to www.hp.com/go/ljsupplies. To order supplies worldwide, go to www.hp.com/ghp/buyonline.html. To order accessories, go to www.hp.com/support/ljcp1510series.

Order through service or support providers

To order a part or accessory, contact an HP-authorized service or support provider.

Order directly through the HP ToolboxFX software

HP ToolboxFX software is a product management tool designed to make product configuration, monitoring, supplies ordering, troubleshooting, and updating as simple and efficient as possible. For more information about HP ToolboxFX software, see View the HP ToolboxFX on page 69.

Part numbers

Table A-1 Spare parts and replacement supplies

Part	Part number	Type/size
Print cartridges For information about the yield for the cartridges, see www.hp.com/go/pageyield. Actual yield depends on specific use.	CB540A	Black print cartridge with HP ColorSphere toner
	CB541A	Cyan print cartridge with HP ColorSphere toner
	CB542A	Yellow print cartridge with HP ColorSphere toner
	CB543A	Magenta print cartridge with HP ColorSphere toner
Cables	C6518A	USB 2.0 printer cable (2-meter [6.5-foot] standard)
Memory	CB421A	64MB DDR2 144 pin SDRAM DIMM
	CB422A	128MB DDR2 144 pin SDRAM DIMM
	CB423A	256MB DDR2 144 pin SDRAM DIMM

Table A-1 Spare parts and replacement supplies (continued)

Part	Part number	Type/size
Media	C2934A	50 sheets
		HP Color LaserJet Transparencies (letter)
	C2936A	50 sheets
		HP Color Laser Transparencies (A4)
	Q1298A	HP LaserJet Tough paper (letter)
	Q1298B	HP LaserJet Tough paper (A4)
	HPU1132	500 sheets
		HP Premium Choice LaserJet paper (letter)
	CHP410	500 sheets
		HP Premium Choice LaserJet paper (A4)
	HPJ1124	500 sheets
		HP LaserJet paper (letter)
	CHP310	500 sheets
		HP LaserJet paper (A4)
	Q6608A	100 sheets
		HP Color Laser Photo Paper, glossy
	Q6611A	150 sheets
		HP Color Laser Brochure Paper, glossy (letter)
	Q6541A	200 sheets
		HP Presentation Laser Paper, soft gloss (letter)
	Q6543A	150 sheets
		HP Brochure Laser Paper, matte (letter)
	Q2546A	300 sheets
		HP Presentation laser paper, glossy
	Q6549A	100 sheets
		HP Photo Paper, matte (letter)
	HPL285R	500 sheets
		HP Color Laser Paper (letter)
Reference materials	5851-1468	*HP LaserJet Printer Family Print Media Specification Guide*

B   Service and support

Hewlett-Packard limited warranty statement

HP PRODUCT	DURATION OF LIMITED WARRANTY
HP Color LaserJet CP1215/CP1515/CP1518 Series printers	One-year limited warranty

HP warrants to you, the end-user customer, that HP hardware and accessories will be free from defects in materials and workmanship after the date of purchase, for the period specified above. If HP receives notice of such defects during the warranty period, HP will, at its option, either repair or replace products which prove to be defective. Replacement products may be either new or equivalent in performance to new.

HP warrants to you that HP software will not fail to execute its programming instructions after the date of purchase, for the period specified above, due to defects in material and workmanship when properly installed and used. If HP receives notice of such defects during the warranty period, HP will replace software which does not execute its programming instructions due to such defects.

HP does not warrant that the operation of HP products will be uninterrupted or error free. If HP is unable, within a reasonable time, to repair or replace any product to a condition as warranted, you will be entitled to a refund of the purchase price upon prompt return of the product.

HP products may contain remanufactured parts equivalent to new in performance or may have been subject to incidental use.

Warranty does not apply to defects resulting from (a) improper or inadequate maintenance or calibration, (b) software, interfacing, parts or supplies not supplied by HP, (c) unauthorized modification or misuse, (d) operation outside of the published environmental specifications for the product, or (e) improper site preparation or maintenance.

TO THE EXTENT ALLOWED BY LOCAL LAW, THE ABOVE WARRANTIES ARE EXCLUSIVE AND NO OTHER WARRANTY OR CONDITION, WHETHER WRITTEN OR ORAL, IS EXPRESSED OR IMPLIED AND HP SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY, SATISFACTORY QUALITY, AND FITNESS FOR A PARTICULAR PURPOSE. Some countries/regions, states or provinces do not allow limitations on the duration of an implied warranty, so the above limitation or exclusion might not apply to you. This warranty gives you specific legal rights and you might also have other rights that vary from country/region to country/region, state to state, or province to province. HP's limited warranty is valid in any country/region or locality where HP has a support presence for this product and where HP has marketed this product. The level of warranty service you receive may vary according to local standards. HP will not alter form, fit or function of the product to make it operate in a country/region for which it was never intended to function for legal or regulatory reasons.

TO THE EXTENT ALLOWED BY LOCAL LAW, THE REMEDIES IN THIS WARRANTY STATEMENT ARE YOUR SOLE AND EXCLUSIVE REMEDIES. EXCEPT AS INDICATED ABOVE, IN NO EVENT WILL HP OR ITS SUPPLIERS BE LIABLE FOR LOSS OF DATA OR FOR DIRECT, SPECIAL, INCIDENTAL, CONSEQUENTIAL (INCLUDING LOST PROFIT OR DATA), OR OTHER DAMAGE, WHETHER BASED IN CONTRACT, TORT, OR OTHERWISE. Some countries/regions, states or provinces do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

THE WARRANTY TERMS CONTAINED IN THIS STATEMENT, EXCEPT TO THE EXTENT LAWFULLY PERMITTED, DO NOT EXCLUDE, RESTRICT OR MODIFY AND ARE IN ADDITION TO THE MANDATORY STATUTORY RIGHTS APPLICABLE TO THE SALE OF THIS PRODUCT TO YOU.

Print cartridge limited warranty statement

This HP product is warranted to be free from defects in materials and workmanship.

This warranty does not apply to products that (a) have been refilled, refurbished, remanufactured or tampered with in any way, (b) experience problems resulting from misuse, improper storage, or operation outside of the published environmental specifications for the printer product or (c) exhibit wear from ordinary use.

To obtain warranty service, please return the product to place of purchase (with a written description of the problem and print samples) or contact HP customer support. At HP's option, HP will either replace products that prove to be defective or refund your purchase price.

TO THE EXTENT ALLOWED BY LOCAL LAW, THE ABOVE WARRANTY IS EXCLUSIVE AND NO OTHER WARRANTY OR CONDITION, WHETHER WRITTEN OR ORAL, IS EXPRESSED OR IMPLIED AND HP SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY, SATISFACTORY QUALITY, AND FITNESS FOR A PARTICULAR PURPOSE.

TO THE EXTENT ALLOWED BY LOCAL LAW, IN NO EVENT WILL HP OR ITS SUPPLIERS BE LIABLE FOR DIRECT, SPECIAL, INCIDENTAL, CONSEQUENTIAL (INCLUDING LOST PROFIT OR DATA), OR OTHER DAMAGE, WHETHER BASED IN CONTRACT, TORT, OR OTHERWISE.

THE WARRANTY TERMS CONTAINED IN THIS STATEMENT, EXCEPT TO THE EXTENT LAWFULLY PERMITTED, DO NOT EXCLUDE, RESTRICT OR MODIFY AND ARE IN ADDITION TO THE MANDATORY STATUTORY RIGHTS APPLICABLE TO THE SALE OF THIS PRODUCT TO YOU.

HP Customer Care

Online Services

For 24-hour access to updated HP device-specific software, product information, and support information through an Internet connection, go to the Web site: www.hp.com/support/ljcp1510series.

Go to www.hp.com/support/net_printing for information about the HP Jetdirect external print server.

HP Instant Support Professional Edition (ISPE) is a suite of Web-based troubleshooting tools for desktop computing and printing products. Go to instantsupport.hp.com.

Telephone support

HP provides free telephone support during the warranty period. For the telephone number for your country/region, see the flyer that shipped with the product, or visit www.hp.com/support/. Before calling HP, have the following information ready: the product name and serial number, the date of purchase, and a description of the problem.

Software utilities, drivers, and electronic information

www.hp.com/go/ljcp1510series_software

The Web page for the drivers is in English, but you can download the drivers themselves in several languages.

HP direct ordering for accessories or supplies

- United States: www.hp.com/sbso/product/supplies.

- Canada: www.hp.ca/catalog/supplies

- Europe: www.hp.com/ljsupplies

- Asia-Pacific: www.hp.com/paper/

To order genuine HP parts or accessories, go to the HP Parts Store at www.hp.com/buy/parts (U.S. and Canada only), or call 1-800-538-8787 (U.S.) or 1-800-387-3154 (Canada).

HP service information

To locate HP-Authorized Dealers, call 1-800-243-9816 (U.S.) or 1-800-387-3867 (Canada).

Outside the United States and Canada, call the customer support number for your country/region. See the flyer that shipped in the box with the device.

HP service agreements

Call 1-800-HPINVENT (1-800-474-6836 (U.S.)) or 1-800-268-1221 (Canada). Or, go to the HP SupportPack and Carepaq™ Services Web site at www.hpexpress-services.com/10467a.

For extended service, call 1-800-446-0522.

HP ToolboxFX

To check the device status and settings and view troubleshooting information and online documentation, use HP ToolboxFX. You must have performed a recommended software installation in order to use HP ToolboxFX. See View the HP ToolboxFX on page 69.

HP support and information for Macintosh computers

Go to www.hp.com/go/macosx for Macintosh OS X support information and HP subscription service for driver updates.

Go to www.hp.com/go/mac-connect for products that are designed specifically for the Macintosh user.

HP maintenance agreements

HP has several types of maintenance agreements that meet a wide range of support needs. Maintenance agreements are not part of the standard warranty. Support services may vary by area. Check with your local HP dealer to determine the services available to you.

HP Care Pack™ Services and Service Agreements

HP has various service and support options that meet a wide range of needs. These options are not part of the standard warranty. Support services may vary by location. For most printers HP offers both in-warranty and post-warranty HP Care Pack Services and Service Agreements.

To identify service and support options for this product, go to http://www.hpexpress-services.com/10467a and type the product model number. In North America, Service Agreement information can be obtained through HP Customer Care. Call 1-800-474-6836 (U.S.) or 1-800-268-1221 (Canada). In other countries/regions please contact your country/region-specific HP Customer Care Center. See the inbox flyer or go to http://www.hp.com for the HP Customer Care telephone number in your country/region.

Extended warranty

HP Support provides coverage for the HP hardware product and all HP-supplied internal components. The hardware maintenance covers a 1- to 3-year period from date of the HP product purchase. The customer must purchase HP Support within the stated factory warranty. For more information, contact the HP Customer Care Service and Support group.

Repack the product

If your product needs to be moved or shipped to another location, perform the following procedure to repack it.

△ **CAUTION:** Shipping damage as a result of inadequate packing is the customer's responsibility. The product must remain upright during shipment.

Repack the product

△ **CAUTION:** It is *extremely important* to remove the print cartridges before shipping the product. Print cartridges left in the product during shipping will leak and entirely cover the product with toner.

To prevent damage to the print cartridges, avoid touching the rollers, and store them in the original packing material or so that they are not exposed to light.

1. Remove all four print cartridges and ship separately.

2. Use the original shipping container and packing material, if possible. If you have already disposed of the packing material, contact a local mailing service for information about repacking the product. HP recommends insuring the equipment for shipment.

Service information form

WHO IS RETURNING THE EQUIPMENT?   Date:

Person to contact: Phone:

Alternate contact: Phone:

Return shipping address: Special shipping instructions:

WHAT ARE YOU SENDING?

Model name: Model number: Serial number:

Please attach any relevant printouts. Do NOT ship accessories (manuals, cleaning supplies, and so on) that are not required to complete the repair.

HAVE YOU REMOVED THE PRINT CARTRIDGES?

You must remove them before shipping the printer, unless a mechanical problem prevents you from doing so.

[ ] Yes.   [ ] No, I cannot remove them.

WHAT NEEDS TO BE DONE? (Attach a separate sheet if necessary.)

1. Describe the conditions of the failure. (What was the failure? What were you doing when the failure occurred? What software were you running? Is the failure repeatable?)

2. If the failure is intermittent, how much time elapses between failures?

3. If the unit connected to any of the following, give the manufacturer and model number.

Personal computer: Modem: Network:

4. Additional comments:

HOW WILL YOU PAY FOR THE REPAIR?

[ ] Under warranty   Purchase/received date:

(Attach proof of purchase or receiving document with original received date.)

[ ] Maintenance contract number:

[ ] Purchase order number:

Except for contract and warranty service, a purchase order number and/or authorized signature must accompany any request for service. If standard repair prices do not apply, a minimum purchase order is required. Standard repair prices can be obtained by contacting an HP-authorized repair center.

Authorized signature: Phone:

Billing address: Special billing instructions:

C   Specifications

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Physical specifications

Height	Depth	Width	Weight
254 mm (10.0 inches)	436 mm (17.2 inches)	399 mm (15.7 inches)	18.20 kg (40.02 lb)

Operating-environment specifications

Table C-2 Operating-environment specifications

Environment	Recommended	Allowed
Temperature	17° to 25°C (62.6° to 77°F)	15° to 30°C (59° to 86°F)
Humidity	20% to 60% relative humidity (RH)	10% to 80% RH
Altitude	Not applicable	0 to 3048 m (0 to 10,000 ft)

NOTE: These values are based on preliminary data. See www.hp.com/support/ljcp1510series for current information.

Electrical specifications

⚠ **WARNING!** Power requirements are based on the country/region where the product is sold. Do not convert operating voltages. This may damage the product and void the product warranty.

Table C-3 Electrical specifications

Item	110-volt models	220-volt models
Power requirements	100 to 127 V (+/-10%)	220 to 240 V (+/-10%)
	50 to 60 Hz (+/-2 Hz)	50 to 60 Hz (+/-2 Hz)
Minimum recommended circuit capacity	4.5 A	2.5 A

Power-consumption specifications

Table C-4 Power consumption (average, in watts)[1,4]

Product Model	Printing (12 PPM)[2,3]	Ready[2]	Sleep[2]	Off[2]
HP Color LaserJet CP1510 Series Printer	260	12	11.2	0.0

[1] Values are based on preliminary data, see www.hp.com/support/ljcp1510series for current information.

[2] The power consumption reflects the highest values measured for color and monochrome printing when using all standard voltages.

[3] HP Color LaserJet CP1510 Series speed is 8 ppm for color printing and 12 ppm for monochrome printing (Letter and A4 size).

[4] Maximum heat dissipation for all models in Ready mode = 41 BTU/Hour.

Acoustic emissions

Table C-5 HP Color LaserJet CP1510 Series[1,2]

Sound power level	Declared per ISO 9296
Printing (12 ppm)[3]	L_{WAd} = 6.1 Bels (A) [61dB (A)]
Ready	L_{WAd} = Inaudible
Sound pressure level: bystander position	**Declared per ISO 9296**
Printing (12 ppm)[3]	L_{pAm} = 47 dB (A)
Ready	L_{pAm} = Inaudible

[1] Values are based on preliminary data, see www.hp.com/support/ljcp1510series for current information.

[2] Configuration tested: HP Color LaserJet CP1510 Series monochrome simplex printing.

[3] HP Color LaserJet CP1510 Series speed is 8 ppm for color printing and 12 ppm for monochrome printing (Letter and A4 size).

Paper and print media specifications

For information about the supported paper and print media, see .

Skew specifications

The product has the following skew specifications:

- **Print engine** (cut-sheet paper): less than 1.5 mm (0.06 inches) over a 260-mm (10.24-inch) length

- **Print engine** (envelopes): less than 3.3 mm (0.13 inches) over a 220-mm (8.66-inch) length

D Regulatory information

- FCC regulations
- Environmental product stewardship program
- Declaration of conformity
- Safety statements

FCC regulations

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy. If this equipment is not installed and used in accordance with the instructions, it may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.

- Increase separation between equipment and receiver.

- Connect equipment to an outlet on a circuit different from that to which the receiver is located.

- Consult your dealer or an experienced radio/TV technician.

NOTE: Any changes or modifications to the printer that are not expressly approved by HP could void the user's authority to operate this equipment.

Use of a shielded interface cable is required to comply with the Class B limits of Part 15 of FCC rules.

Environmental product stewardship program

Protecting the environment

Hewlett-Packard Company is committed to providing quality products in an environmentally sound manner. This product has been designed with several attributes to minimize impacts on our environment.

Ozone production

This product generates no appreciable ozone gas (O_3).

Power consumption

Power usage drops significantly while in Ready/Sleep mode, which saves natural resources and saves money without affecting the high performance of this product. To determine the ENERGY STAR® qualification status for this product see the Product Data Sheet or Specifications Sheet. Qualified products are also listed at:

http://www.hp.com/hpinfo/globalcitizenship/environment/productdesign/ecolabels.html

Paper use

This product's manual duplex feature (two-sided printing) and N-up printing (multiple pages printed on one page) capability can reduce paper usage and the resulting demands on natural resources.

Plastics

Plastic parts over 25 grams are marked according to international standards that enhance the ability to identify plastics for recycling purposes at the end of the product's life.

HP LaserJet print supplies

It's easy to return and recycle your empty HP LaserJet print cartridges—free of charge—with HP Planet Partners. Multilingual program information and instructions are included in every new HP LaserJet print cartridge and supplies package. You help reduce the toll on the environment further when you return multiple cartridges together rather than separately.

HP is committed to providing inventive, high-quality products and services that are environmentally sound, from product design and manufacturing to distribution, customer use and recycling. When you participate in the HP Planet Partners program, we ensure your HP LaserJet print cartridges are recycled properly, processing them to recover plastics and metals for new products and diverting millions of tons of waste from landfills. Since this cartridge is being recycled and used in new materials, it will not be returned to you. Thank you for being environmentally responsible!

NOTE: Use the return label to return original HP LaserJet print cartridges only. Please do not use this label for HP inkjet cartridges, non-HP cartridges, refilled or remanufactured cartridges or warranty returns. For information about recycling your HP inkjet cartridges please go to http://www.hp.com/recycle.

Return and recycling instructions

United States and Puerto Rico

The enclosed label in the HP LaserJet toner cartridge box is for the return and recycling of one or more HP LaserJet print cartridges after use. Please follow the applicable instructions below.

Multiple returns (two to eight cartridges)

1. Package each HP LaserJet print cartridge in its original box and bag.

2. Tape up to eight single boxes together using strapping or packaging tape (up to 70 lbs).

3. Use a single pre-paid shipping label.

OR

1. Use your own suitable box, or request a free bulk collection box from the http://www.hp.com/recycle or 1-800-340-2445 (holds up to eight HP LaserJet print cartridges).

2. Use a single pre-paid shipping label.

Single returns

1. Package the HP LaserJet print cartridge in its original bag and box.

2. Place the shipping label on the front of the box.

Shipping

For all HP LaserJet print cartridge recycling returns, give the package to UPS during your next delivery or pickup, or take it to an authorized UPS drop-off center. For the location of your local UPS drop-off center, call 1-800-PICKUPS or visit http://www.ups.com. If you are returning via USPS label, give the package to a U.S. Postal Service carrier or drop off at a U.S.Postal Service Office. For more information, or to order additional labels or boxes for bulk returns, visit http://www.hp.com/recycle or call 1-800-340-2445. Requested UPS pickup will be charged normal pickup rates. Information subject to change without notice.

Non-US returns

To participate in HP Planet Partners return and recycling program, just follow the simple directions in the recycling guide (found inside the packaging of your new printer supply item) or visit http://www.hp.com/recycle. Select your country/region for information on how to return your HP LaserJet printing supplies.

Paper

This product is capable of using recycled papers when the paper meets the guidelines outlined in the *HP LaserJet Printer Family Print Media Guide*. This product is suitable for the use of recycled paper according to EN12281:2002.

Material restrictions

This HP product does not contain added mercury.

This HP product does not contain a battery.

Disposal of waste equipment by users in private households in the European Union

This symbol on the product or on its packaging indicates that this product must not be disposed of with your other household waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

Material Safety Data Sheet (MSDS)

Material Safety Data Sheets (MSDS) for supplies containing chemical substances (for example, toner) can be obtained by contacting the HP Web site at www.hp.com/go/msds or www.hp.com/hpinfo/globalcitizenship/environment.

For more information

To obtain information about these environmental topics:

- Product environmental profile sheet for this and many related HP products

- HP's commitment to the environment

- HP's environmental management system

- HP's end-of-life product return and recycling program

- Material Safety Data Sheets

Visit www.hp.com/go/environment or www.hp.com/hpinfo/globalcitizenship/environment.

Declaration of conformity

Declaration of Conformity

according to ISO/IEC 17050-1 and EN 17050-1; DoC#: BOISB-0603–00–rel. 1.0

Manufacturer's Name:	Hewlett-Packard Company
Manufacturer's Address:	11311 Chinden Boulevard, Boise, Idaho 83714-1021, USA

declares, that the product

Product Name:	HP Color LaserJet CP1215/CP1515/CP1518 Series
Regulatory Model:[2]	BOISB-0603-00
Product Options:	All
Toner Cartridges:	CB540A, CB541A, CB542A, CB543A

conforms to the following Product Specifications:

SAFETY:	IEC 60950-1:2001 / EN60950-1: 2001 +A11
	IEC 60825-1:1993 +A1+A2 / EN 60825-1:1994 +A1 +A2 (Class 1 Laser/LED Product) GB4943-2001
EMC:	CISPR22:2005 / EN55022:2006 - Class B[1]
	EN 61000-3-2:2000 +A2
	EN 61000-3-3:1995 +A1
	EN 55024:1998 +A1 +A2
	FCC Title 47 CFR, Part 15 Class B[1] / ICES-003, Issue 4 GB9254-1998, GB17625.1-2003

Supplementary Information:

The product herewith complies with the requirements of the EMC Directive 2004/108/EEC and the Low Voltage Directive 2006/95/EC, and carries the CE-Marking accordingly.

This Device complies with Part 15 of the FCC Rules. Operation is subject to the following two Conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

1) The product was tested in a typical configuration with Hewlett-Packard Personal Computer Systems.

2) For regulatory purposes, these products are assigned a Regulatory model number. This number should not be confused with the product name or the product number(s).

Boise, Idaho 83713, USA

October, 2007

For Regulatory Topics Only:

European Contact	Your Local Hewlett-Packard Sales and Service Office or Hewlett-Packard Gmbh, Department HQ-TRE / Standards Europe, Herrenberger Strasse 140, Böblingen, D-71034, Germany, (FAX+49-7031-14-3143)
USA Contact	Product Regulations Manager, Hewlett-Packard Company, PO Box 15, Mail Stop 160, Boise, ID 83707-0015, USA, (Phone: 208-396-6000)

Safety statements

Laser safety

The Center for Devices and Radiological Health (CDRH) of the U.S. Food and Drug Administration has implemented regulations for laser products manufactured since August 1, 1976. Compliance is mandatory for products marketed in the United States. The device is certified as a "Class 1" laser product under the U.S. Department of Health and Human Services (DHHS) Radiation Performance Standard according to the Radiation Control for Health and Safety Act of 1968. Since radiation emitted inside the device is completely confined within protective housings and external covers, the laser beam cannot escape during any phase of normal user operation.

⚠ **WARNING!**   Using controls, making adjustments, or performing procedures other than those specified in this user guide may result in exposure to hazardous radiation.

Canadian DOC regulations

Complies with Canadian EMC Class B requirements.

« Conforme à la classe B des normes canadiennes de compatibilité électromagnétiques. « CEM ». »

VCCI statement (Japan)

この装置は、情報処理装置等電波障害自主規制協議会（ＶＣＣＩ）の基準
に基づくクラスＢ情報技術装置です。この装置は、家庭環境で使用すること
を目的としていますが、この装置がラジオやテレビジョン受信機に近接して
使用されると、受信障害を引き起こすことがあります。
取扱説明書に従って正しい取り扱いをして下さい。

Power cord statement (Japan)

製品には、同梱された電源コードをお使い下さい。
同梱された電源コードは、他の製品では使用出来ません。

EMI statement (Korea)

B급 기기 (가정용 정보통신기기)

이 기기는 가정용으로 전자파적합등록을 한 기기로서
주거지역에서는 물론 모든지역에서 사용할 수 있습니다.

Laser statement for Finland

Luokan 1 laserlaite

Klass 1 Laser Apparat

HP Color LaserJet CP1215/CP1515/CP1518 Series, laserkirjoitin on käyttäjän kannalta turvallinen luokan 1 laserlaite. Normaalissa käytössä kirjoittimen suojakotelointi estää lasersäteen pääsyn laitteen ulkopuolelle. Laitteen turvallisuusluokka on määritetty standardin EN 60825-1 (1994) mukaisesti.

VAROITUS !

Laitteen käyttäminen muulla kuin käyttöohjeessa mainitulla tavalla saattaa altistaa käyttäjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

VARNING !

Om apparaten används på annat sätt än i bruksanvisning specificerats, kan användaren utsättas för osynlig laserstrålning, som överskrider gränsen för laserklass 1.

HUOLTO

HP Color LaserJet CP1215/CP1515/CP1518 Series - kirjoittimen sisällä ei ole käyttäjän huollettavissa olevia kohteita. Laitteen saa avata ja huoltaa ainoastaan sen huoltamiseen koulutettu henkilö. Tällaiseksi huoltotoimenpiteeksi ei katsota väriainekasetin vaihtamista, paperiradan puhdistusta tai muita käyttäjän käsikirjassa lueteltuja, käyttäjän tehtäväksi tarkoitettuja ylläpitotoimia, jotka voidaan suorittaa ilman erikoistyökaluja.

VARO !

Mikäli kirjoittimen suojakotelo avataan, olet alttiina näkymättömällelasersäteilylle laitteen ollessa toiminnassa. Älä katso säteeseen.

VARNING !

Om laserprinterns skyddshölje öppnas då apparaten är i funktion, utsättas användaren för osynlig laserstrålning. Betrakta ej strålen. Tiedot laitteessa käytettävän laserdiodin säteilyominaisuuksista: Aallonpituus 775-795 nm Teho 5 m W Luokan 3B laser.

Substances Table (China)

根据中国电子信息产品污染控制管理办法的要求而出台

Table D-1 有毒有害物质表

部件名称	有毒有害物质和元素					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
打印引擎	X	O	X	X	O	O
控制面板	O	O	O	O	O	O
塑料外壳	O	O	O	O	O	O
格式化板组件	X	O	O	O	O	O
碳粉盒	X	O	O	O	O	O

O:表示在此部件所用的所有同类材料中，所含的此有毒或有害物质均低于 SJ/T11363-2006 的限制要求。

X:表示在此部件所用的所有同类材料中，至少一种所含的此有毒或有害物质高于 SJ/T11363-2006 的限制要求。

NOTE: 引用的"环保使用期限"是根据在正常温度和湿度条件下操作使用产品而确定的。

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