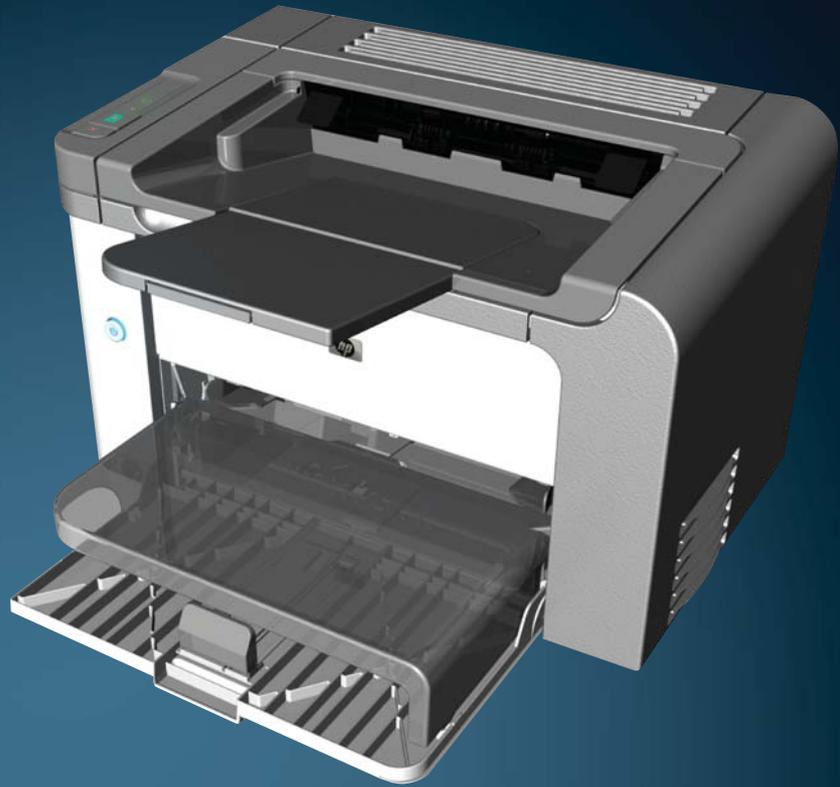




LASERJET PROFESSIONAL P1560 and P1600 Printer series User Guide



www.hp.com/support/ljp1560series
www.hp.com/support/ljp1600series



HP LaserJet Professional P1560 and P1600 printer series

User Guide

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Conventions used in this guide

 **TIP:** Tips provide helpful hints or shortcuts.

 **NOTE:** Notes provide important information to explain a concept or to complete a task.

 **CAUTION:** Cautions indicate procedures that are recommended to avoid losing data or damaging the product.

 **WARNING!** Warnings alert you to specific procedures to avoid personal injury, catastrophic loss of data, or extensive damage to the product.

Table of contents

| | |
|------------------------------------------------------|-----------|
| 1 Product basics | 1 |
| Product comparison | 2 |
| Environmental features | 3 |
| Product features | 4 |
| Product views | 6 |
| Front and left side view | 6 |
| Back view | 7 |
| Serial number and model number location | 7 |
| Control-panel layout | 8 |
| 2 Software for Windows | 9 |
| Supported operating systems for Windows | 10 |
| Supported printer-drivers for Windows | 10 |
| Select the correct printer-driver for Windows | 11 |
| HP Universal Print Driver (UPD) | 11 |
| Priority for print settings | 12 |
| Change printer-driver settings for Windows | 13 |
| Remove software for Windows | 14 |
| Use the uninstall utility to remove Windows software | 14 |
| Use the Windows Control Panel to remove software | 14 |
| Supported utilities for Windows | 15 |
| HP Web Jetadmin | 15 |
| HP Embedded Web Server | 15 |
| 3 Use the product with Mac | 17 |
| Software for Mac | 18 |
| Supported operating systems for Macintosh | 18 |
| Supported printer drivers for Macintosh | 18 |
| Remove software for Mac | 18 |
| Priority for print settings for Mac | 19 |
| Change printer-driver settings for Macintosh | 19 |

| | |
|----------------------------------------------------------------|-----------|
| Software for Mac | 20 |
| HP Printer Utility for Mac | 20 |
| Supported utilities for Mac | 20 |
| HP Embedded Web Server | 20 |
| Print with Mac | 21 |
| Create and use printing presets in Macintosh | 21 |
| Resize documents or print on a custom paper size | 21 |
| Print a cover page | 21 |
| Print multiple pages on one sheet of paper in Macintosh | 22 |
| Print on both sides (duplex) with Mac | 23 |
| Automatic | 23 |
| Manual | 23 |
| 4 Connect the product | 25 |
| Supported network operating systems | 26 |
| Printer sharing disclaimer | 26 |
| Connect with USB | 27 |
| HP Smart Install | 27 |
| CD installation | 27 |
| Connect to a network | 28 |
| Supported network protocols | 28 |
| Install the product on a wired network | 28 |
| Configure network settings | 29 |
| View or change network settings | 29 |
| Set or change the network password | 30 |
| IP address | 30 |
| Link speeds and duplex settings | 30 |
| 5 Paper and print media | 31 |
| Understand paper and print media use | 32 |
| Special paper or print media guidelines | 33 |
| Change the print driver to match the media type and size | 34 |
| Supported paper sizes | 35 |
| Supported paper types | 37 |
| Tray and bin capacity | 38 |
| Load paper trays | 39 |
| Priority input slot | 39 |
| Main-input tray | 39 |
| Paper orientation for loading trays | 39 |

| | |
|--------------------------------------------------------------------|-----------|
| 6 Print tasks | 41 |
| Cancel a print job | 42 |
| Stop the current print job from the control panel | 42 |
| Stop the current print job from the software program | 42 |
| Print with Windows | 43 |
| Open the Windows printer driver | 43 |
| Get help for any print option with Windows | 43 |
| Change the number of print copies with Windows | 43 |
| Print colored text as black with Windows | 44 |
| Save custom print settings for reuse with Windows | 44 |
| Use a printing quick set | 44 |
| Create a custom printing quick set | 44 |
| Improve print quality with Windows | 44 |
| Select a page size | 44 |
| Select a custom page size | 44 |
| Select a paper type | 45 |
| Select the print resolution | 45 |
| Print the first or last page on different paper with Windows | 46 |
| Scale a document to fit page size with Windows | 46 |
| Add a watermark to a document with Windows | 46 |
| Print on both sides (duplex) with Windows | 47 |
| Automatic | 47 |
| Manual | 48 |
| Create a booklet with Windows | 49 |
| Print multiple pages per sheet with Windows | 49 |
| Select page orientation with Windows | 50 |
| Use HP ePrint | 50 |
| Use HP Cloud Print | 50 |
| Use AirPrint | 51 |
| | |
| 7 Manage and maintain | 53 |
| Print information pages | 54 |
| Configuration page | 54 |
| Supplies status page | 54 |
| Demo page | 54 |
| Use the HP Embedded Web Server | 55 |
| Open the embedded Web server | 55 |
| Embedded Web server sections | 56 |
| Information tab | 56 |
| Settings tab | 56 |
| Networking tab | 56 |

| | |
|-----------------------------------------------|-----------|
| HP Smart Install tab | 56 |
| Links | 56 |
| Economy settings | 57 |
| EconoMode | 57 |
| Auto-Off mode | 57 |
| Quiet mode settings | 59 |
| Manage supplies and accessories | 60 |
| Manage print cartridges | 60 |
| Print-cartridge storage | 60 |
| HP policy on non-HP print cartridges | 60 |
| HP fraud hotline and Web site | 60 |
| Recycle supplies | 60 |
| Replacement instructions | 61 |
| Redistribute toner | 61 |
| Replace the print cartridge | 63 |
| Replace the pickup roller | 65 |
| Replace the separation pad | 68 |
| Clean the product | 71 |
| Clean the pickup roller | 71 |
| Clean the paper path | 72 |
| Clean the print-cartridge area | 73 |
| Clean the exterior | 75 |
| Product updates | 76 |
| Firmware updates | 76 |
| 8 Solve problems | 77 |
| Solve general problems | 78 |
| Troubleshooting checklist | 78 |
| Factors that affect product performance | 79 |
| Restore factory settings | 79 |
| Interpret control-panel light patterns | 80 |
| Clear jams | 85 |
| Common causes of jams | 85 |
| Jam locations | 85 |
| Clear jams from the input trays | 86 |
| Clear jams from the duplexer | 88 |
| Clear jams from the output areas | 90 |
| Clear jams from inside the product | 91 |
| Solve repeated jams | 94 |
| Change the jam recovery setting | 94 |
| Solve paper-handling problems | 95 |

| | |
|------------------------------------------|-----|
| Solve image-quality problems | 96 |
| Image defect examples | 96 |
| Light print or faded | 96 |
| Toner specks | 96 |
| Dropouts | 97 |
| Vertical lines | 97 |
| Gray background | 97 |
| Toner smear | 98 |
| Loose toner | 98 |
| Vertical repetitive defects | 98 |
| Misformed characters | 99 |
| Page skew | 99 |
| Curl or wave | 99 |
| Wrinkles or creases | 100 |
| Toner scatter outline | 100 |
| Moisture | 101 |
| Optimize and improve image quality | 102 |
| Change print density | 102 |
| Solve performance problems | 103 |
| Solve connectivity problems | 104 |
| Solve direct-connect problems | 104 |
| Solve network problems | 104 |
| Solve product software problems | 106 |
| Solve common Windows problems | 106 |
| Solve common Macintosh problems | 107 |

Appendix A Supplies and accessories 111

| | |
|----------------------------------------------|-----|
| Order parts, accessories, and supplies | 112 |
| Part numbers | 112 |
| Paper-handling accessories | 112 |
| Print cartridges | 112 |
| Cables and interfaces | 112 |

Appendix B Service and support 113

| | |
|---------------------------------------------------------------------------------------------|-----|
| Hewlett-Packard limited warranty statement | 114 |
| HP's Premium Protection Warranty: LaserJet print cartridge limited warranty statement | 115 |
| End User License Agreement | 116 |
| Customer self-repair warranty service | 118 |
| Customer support | 118 |
| Repack the product | 119 |

| | |
|----------------------------------------------------------------------------------------|----------------|
| Appendix C Specifications | 121 |
| Physical specifications | 122 |
| Power consumption, electrical specifications, and acoustic emissions | 122 |
| Environmental specifications | 122 |
| Appendix D Regulatory information | 123 |
| FCC regulations | 124 |
| Environmental product stewardship program | 125 |
| Protecting the environment | 125 |
| Ozone production | 125 |
| Power consumption | 125 |
| Toner consumption | 125 |
| Paper use | 125 |
| Plastics | 125 |
| HP LaserJet print supplies | 125 |
| Return and recycling instructions | 126 |
| United States and Puerto Rico | 126 |
| Multiple returns (more than one cartridge) | 126 |
| Single returns | 126 |
| Shipping | 126 |
| Non-U.S. returns | 127 |
| Paper | 127 |
| Material restrictions | 127 |
| Disposal of waste equipment by users in private households in the European Union | 127 |
| Chemical substances | 127 |
| Material Safety Data Sheet (MSDS) | 127 |
| For more information | 128 |
| Declaration of conformity | 129 |
| Safety statements | 130 |
| Laser safety | 130 |
| Canadian DOC regulations | 130 |
| VCCI statement (Japan) | 130 |
| Power cord instructions | 130 |
| Power cord statement (Japan) | 130 |
| EMC statement (Korea) | 131 |
| Laser statement for Finland | 132 |
| GS statement (Germany) | 132 |
| Substances Table (China) | 133 |
| Restriction on Hazardous Substances statement (Turkey) | 133 |
| Index | 135 |

1 Product basics

- [Product comparison](#)
- [Environmental features](#)
- [Product features](#)
- [Product views](#)

Product comparison

HP LaserJet Professional P1560 printer series



HP LaserJet Professional P1600 printer series



-
- | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none">• Speed: 22 A4 pages per minute (ppm), 23 letter-size ppm• Trays: Priority input slot (10-sheet) and a main-input tray (250-sheet)• Output bin: 125-sheets• Connectivity: Hi-Speed USB 2.0 port• Two-sided printing: Manual duplexing (using the printer driver and the go button  on the control-panel) | <ul style="list-style-type: none">• Speed: 25 A4 ppm, 26 letter-size ppm• Trays: Priority input slot (10-sheet) and a main-input tray (250-sheet)• Output bin: 125-sheets• Connectivity: Hi-Speed USB 2.0 port and on-board networking• Two-sided printing: Automatic duplexing |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
-

Environmental features

| | |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Duplex | <p>Save paper by using duplex printing as your default print setting.</p> <ul style="list-style-type: none">• The HP LaserJet Professional P1560 printer series supports manual duplexing.• The HP LaserJet Professional P1600 printer series supports automatic and manual duplexing. |
| Recycling | <p>Reduce waste by using recycled paper.</p> <p>Recycle print cartridges by using the HP return process.</p> |
| Energy savings | <p>Save energy by initiating Auto-Off mode for the product.</p> |
| HP Smart Web Printing | <p>Use HP Smart Web Printing to select, store, and organize text and graphics from multiple Web pages and then edit and print exactly what you see onscreen. It gives you the control you need for printing meaningful information while minimizing waste.</p> <p>Download HP Smart Web Printing from this Web site: www.hp.com/go/smartweb.</p> |

Product features

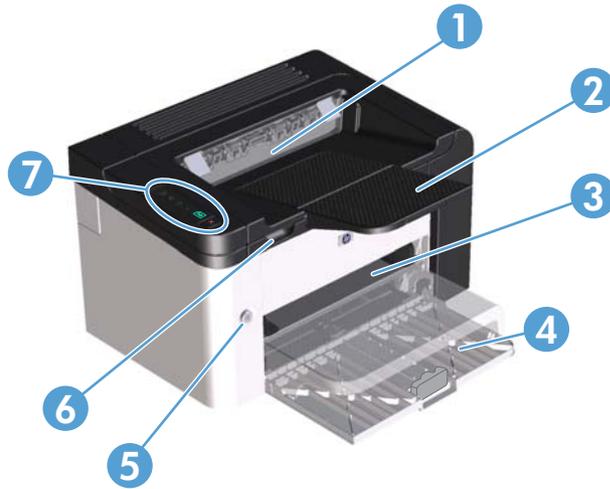
| Benefit | Supporting features |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Print quality | <ul style="list-style-type: none">• Genuine HP print cartridge.• True 600 x 600 dots per inch (dpi) text and graphics.• FastRes (1200 dpi).• Adjustable settings to optimize print quality. |
| Supported operating systems | <ul style="list-style-type: none">• Windows 7 (32-bit and 64-bit)• Windows Vista (32-bit and 64-bit)• Windows XP (32-bit and 64-bit)• Windows Server 2008 (32-bit and 64-bit)• Windows Server 2003 (32-bit and 64-bit)• Mac OS X v10.4, v10.5, v10.6 |
| Ease of use | <ul style="list-style-type: none">• HP Smart Install feature installs product software when you connect a USB cable between the product and a computer.• The genuine HP print cartridge is easy to install.• Convenient access to the print cartridge and to the paper path through the print-cartridge door.• Paper tray can be adjusted with one hand. |
| Flexible paper handling | <ul style="list-style-type: none">• A main-input tray for letterhead, envelopes, labels, transparencies, custom-sized media, postcards, and heavy paper.• Priority input slot for letterhead, envelopes, labels, transparencies, custom-sized media, postcards, and heavy paper.• A 125-sheet top output bin.• Print on both sides<ul style="list-style-type: none">◦ HP LaserJet Professional P1560 printer series: Manual duplexing.◦ HP LaserJet Professional P1600 printer series: Automatic duplexing. |
| Interface connections | <ul style="list-style-type: none">• Hi-Speed USB 2.0 port• A built-in internal print server for connecting to a 10/100Base-T network (network models only). |
| Energy savings | <ul style="list-style-type: none">• The product automatically conserves electricity by substantially reducing power consumption when it is not printing. |
| Economical printing | <ul style="list-style-type: none">• N-up printing (printing more than one page on a sheet) and Printing on Both Sides features save paper.• EconoMode (might save toner). |

| Benefit | Supporting features |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Supplies | <ul style="list-style-type: none">• A supplies status page with print cartridge gauges that estimate remaining supply level. Not available for non-HP supplies.• Authentication for genuine HP print cartridges.• Easy ordering for replacement supplies. |
| Accessibility | <ul style="list-style-type: none">• The online user guide is compatible with text screen-readers.• All doors and covers can be opened by using one hand. |
| Security | <ul style="list-style-type: none">• Kensington lock receptacle on back of product. |

Product views

Front and left side view

Figure 1-1 HP LaserJet Professional P1560 and P1600 printer series



| | |
|---|-------------------------|
| 1 | Output bin |
| 2 | Output tray extension |
| 3 | Priority input slot |
| 4 | Main-input tray |
| 5 | Power button |
| 6 | Cartridge door lift-tab |
| 7 | Control panel |

Back view

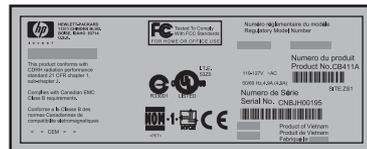
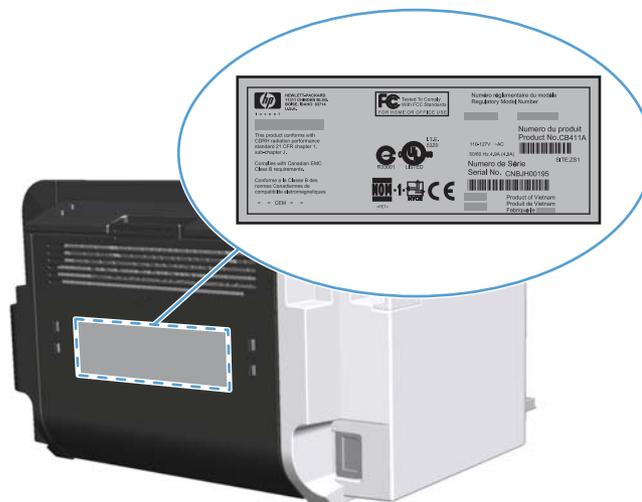
Figure 1-2 HP LaserJet Professional P1560 and P1600 printer series



| | |
|---|-------------------------------------------------------------------------------------------|
| 1 | USB port HP internal network port (HP LaserJet Professional P1600 printer series only) |
| 2 | Power receptacle |
| 3 | Kensington lock |
| 4 | Duplexer and rear jam-access door (HP LaserJet Professional P1600 printer series only) |

Serial number and model number location

The label that contains the product and serial numbers is on the rear of the product.

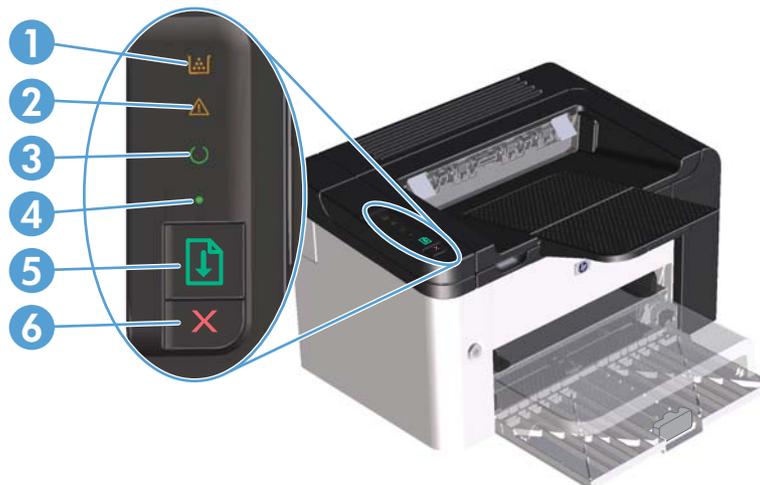


Control-panel layout

The control panel contains four lights and two buttons.

 **NOTE:** See [Interpret control-panel light patterns on page 80](#) for a description of what the light patterns mean.

Figure 1-3 HP LaserJet Professional P1560 and P1600 printer series control panel



| | |
|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Toner light  : When the print cartridge is low, the toner light  illuminates. When the print cartridge is out of the product, the toner light  blinks. |
| 2 | Attention light  : Indicates that the print-cartridge door is open or other errors exist. |
| 3 | Ready light  : When the product is ready to print, the ready light  is on. When the product is processing data, the ready light  blinks. |
| 4 | Go light  : Indicates that there is a continuable error (along with the attention light  . |
| 5 | Go button  : To print a configuration page, press and hold the go button  , and then release the button when the ready light  blinks. To print a demo page, press and release the go button  . When the go light  is flashing, press the go button  to continue the print job. |
| 6 | Cancel button  : To cancel the print job, press the cancel button  . |

2 Software for Windows

- [Supported operating systems for Windows](#)
- [Supported printer-drivers for Windows](#)
- [Select the correct printer-driver for Windows](#)
- [Priority for print settings](#)
- [Change printer-driver settings for Windows](#)
- [Remove software for Windows](#)
- [Supported utilities for Windows](#)

Supported operating systems for Windows

The product comes with software for the following Windows® operating systems:

- Windows 7 (32-bit and 64-bit)
- Windows Vista (32-bit and 64-bit)
- Windows XP (32-bit and 64-bit)
- Windows Server 2008 (32-bit and 64-bit)
- Windows Server 2003 (32-bit and 64-bit)

For more information about upgrading from Windows 2000 Server to Windows Server 2003, using Windows Server 2003 Point and Print, or using Windows Server 2003 Terminal Services and Printing, go to <http://www.microsoft.com>.

Supported printer-drivers for Windows

The product comes with software for Windows that allows the computer to communicate with the product. This software is called a printer driver. Printer drivers provide access to product features, such as printing on custom-sized paper, resizing documents, and inserting watermarks.



NOTE: The most recent drivers are available at www.hp.com/support/ljp1560series or www.hp.com/support/ljp1600series.

In addition to the printer drivers that are installed during a HP Smart Install or from the product CD, the following printer drivers are available for download from the Web:

- PCL 5 Universal Printer Driver for Windows (HP UPD PCL 5) (HP LaserJet Professional P1600 printer series only)
- XPS (XML Paper Specification) driver



NOTE: For more information about the UPD, see www.hp.com/go/upd.

Select the correct printer-driver for Windows

 **NOTE:** Only the HP LaserJet Professional P1600 printer series supports the HP Universal Print Driver.

Whenever possible, use the printer drivers installed during the HP Smart Install or from the product CD. The UPD printer driver is a secondary back-up printer driver.

HP Universal Print Driver (UPD)

 **NOTE:** To use the HP UPD, you must disable the product HP Smart Install feature.

The HP Universal Print Driver (UPD) for Windows is a single driver that gives you instant access to virtually any HP LaserJet product, from any location, without downloading separate drivers. It is built on proven HP print driver technology and has been tested thoroughly and used with many software programs. It is a powerful solution that performs consistently over time.

The HP UPD communicates directly with each HP product, gathers configuration information, and then customizes the user interface to show the product's unique, available features. It automatically enables features that are available for the product, such as two-sided printing and stapling, so you do not need to enable them manually.

For more information, go to www.hp.com/go/upd.

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 usually 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 usually do not override settings anywhere else in the printing software. You can change most of the print settings here.
- **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.

Change printer-driver settings for Windows

Change the settings for all print jobs until the software program is closed

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.

Change the default settings for all print jobs

1. **Windows XP, Windows Server 2003, and Windows Server 2008 (using the default Start menu view):** Click **Start**, and then click **Printers and Faxes**.

-or-

Windows XP, Windows Server 2003, and Windows Server 2008 (using the Classic Start menu view): Click **Start**, click **Settings**, and then click **Printers**.

-or-

Windows Vista and Windows 7: Click **Start**, click **Control Panel**, and then in the category for **Hardware and Sound** click **Printer**.

2. Right-click the driver icon, and then select **Printing Preferences**.

Change the product configuration settings

1. **Windows XP, Windows Server 2003, and Windows Server 2008 (using the default Start menu view):** Click **Start**, and then click **Printers and Faxes**.

-or-

Windows XP, Windows Server 2003, and Windows Server 2008 (using the Classic Start menu view): Click **Start**, click **Settings**, and then click **Printers**.

-or-

Windows Vista and Windows 7: Click **Start**, click **Control Panel**, and then in the category for **Hardware and Sound** click **Printer**.

2. Right-click the driver icon, and then select **Properties**.
 3. Click the **Device Settings** tab.
-

Remove software for Windows

Use the uninstall utility to remove Windows software

1. Click **Start**, and then click **All Programs**.
2. Click **HP**, and then click **HP LaserJet Professional P1560 and P1600 printer**.
3. Click **Uninstall**, and then follow the onscreen instructions to remove the software.

Use the Windows Control Panel to remove software

Windows XP

1. Click **Start**, **Control Panel**, and then **Add or Remove Programs**.
2. Find and select the product from the list.
3. Click the **Change/Remove** button to remove the software.

Windows Vista and Windows 7

1. Click **Start**, **Control Panel**, and then **Programs and Features**.
2. Find and select the product from the list.
3. Select the **Uninstall/Change** option.

Supported utilities for Windows

 **NOTE:** Only the HP LaserJet Professional P1600 printer series supports utilities for Windows.

HP Web Jetadmin

HP Web Jetadmin is a simple print and imaging peripheral management software tool that helps optimize product use, control color costs, secure products, and streamline supplies management by enabling remote configuration, proactive monitoring, security troubleshooting, and reporting of printing and imaging products.

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, a Windows client can gain access to HP Web Jetadmin by using a supported Web browser (such as Microsoft® Internet Explorer) by navigating to the HP Web Jetadmin host.

HP Embedded Web Server

 **NOTE:** Only the HP LaserJet Professional P1600 printer series supports the HP Embedded Web Server.

The product 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, Apple Safari, or Firefox.

The embedded Web server resides on the product. It is not loaded on a network server.

The embedded Web server provides an interface to the product that anyone who has a network-connected computer and a standard Web browser can use. No special software is installed or configured, but you must have a supported Web browser on your computer. To gain access to the embedded Web server, type the IP address for the product in the address line of the browser. (To find the IP address, print a configuration page. For more information about printing a configuration page, see [Print information pages on page 54](#).)

For a complete explanation of the features and functionality of the embedded Web server, see [Embedded Web server sections on page 56](#).

3 Use the product with Mac

- [Software for Mac](#)
- [Print with Mac](#)

Software for Mac

Supported operating systems for Macintosh

The product supports the following Macintosh operating systems:

- Mac OS X v10.4, v10.5, and v10.6

 **NOTE:** PPC and Intel® Core™ processors are supported.

Supported printer drivers for Macintosh

The HP LaserJet software installer provides PostScript® Printer Description (PPD) files, a CUPS driver, and the HP Printer Utilities for Mac OS X. The HP printer PPD file, in combination with the CUPS driver, provides full printing functionality and access to specific HP printer features.

Remove software for Mac

Use the uninstall utility to remove the software.

1. Browse to the following folder:
Library/Printers/hp/laserjet/P1100_P1560_P1600Series/
2. Double-click the **HP Uninstaller.app** file.
3. Click the **Continue** button, and then follow the onscreen instructions to remove the software.

Priority for print settings for Mac

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 might 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.
- **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** or **Print** dialog boxes.

Change printer-driver settings for Macintosh

| Change the settings for all print jobs until the software program is closed | Change the default settings for all print jobs | Change the product configuration settings |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ol style="list-style-type: none">1. On the File menu, click Print.2. Change the settings that you want on the various menus. | <ol style="list-style-type: none">1. On the File menu, click Print.2. Change the settings that you want on the various menus.3. On the Presets menu, click Save as and type a name for the preset. <p>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.</p> | <p>Mac OS X v10.4</p> <ol style="list-style-type: none">1. From the Apple menu, click System Preferences and then Print & Fax.2. Click Printer Setup.3. Click the Installable Options menu. <p>Mac OS X v10.5 and v10.6</p> <ol style="list-style-type: none">1. From the Apple menu, click System Preferences and then Print & Fax.2. Click Options & Supplies.3. Click the Driver menu.4. Select the driver from the list, and configure the installed options. |

Software for Mac

HP Printer Utility for Mac

Use the HP LaserJet Utility to print the product information pages and to change the Auto-Off setting from a Mac computer.

To open the HP LaserJet Utility, complete the procedure below.

- ▲ Open the Print Queue, and then click the **Utility** icon.

Supported utilities for Mac

HP Embedded Web Server

 **NOTE:** Only the HP LaserJet Professional P1600 printer series supports the HP Embedded Web Server.

The product 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, Apple Safari, or Firefox.

The embedded Web server resides on the product. It is not loaded on a network server.

The embedded Web server provides an interface to the product that anyone who has a network-connected computer and a standard Web browser can use. No special software is installed or configured, but you must have a supported Web browser on your computer. To gain access to the embedded Web server, type the IP address for the product in the address line of the browser. (To find the IP address, print a configuration page. For more information about printing a configuration page, see [Print information pages on page 54.](#))

For a complete explanation of the features and functionality of the embedded Web server, see [Embedded Web server sections on page 56.](#)

Print with Mac

Create and use printing presets in Macintosh

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

Create a printing preset

1. On the **File** menu, click **Print**.
2. Select the driver.
3. Select the print settings.
4. In the **Presets** box, click **Save As...**, and type a name for the preset.
5. Click **OK**.

Use printing presets

1. On the **File** menu, click **Print**.
2. Select the driver.
3. In the **Presets** box, select the printing preset that you want to use.



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

Resize documents or print on a custom paper size

You can scale a document to fit on a different size of paper.

1. On the **File** menu, click **Print**.
2. Open the **Paper Handling** menu.
3. In the area for **Destination Paper Size**, select **Scale to fit paper size**, and then select the size from the drop-down list.
4. If you want to use only paper that is smaller than the document, select **Scale down only**.

Print a cover page

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

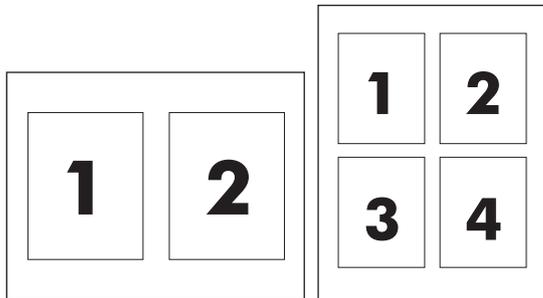
1. On the **File** menu, click **Print**.
2. Select the driver.

3. Open the **Cover Page** menu, and then select whether to print the cover page **Before Document** or **After Document**.
4. In the **Cover Page Type** 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 in Macintosh

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. On the **File** menu, click **Print**.
2. Select the driver.
3. Open the **Layout** menu.
4. 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).
5. Next to **Layout Direction**, select the order and placement of the pages on the sheet.
6. Next to **Borders**, select the type of border to print around each page on the sheet.

Print on both sides (duplex) with Mac

Automatic



NOTE: Automatic duplexing is only supported for the HP LaserJet Professional P1600 printer series product.

The printer driver only supports certain media sizes for automatic duplexing. Use the manual duplexing procedure for media sizes not available in the printer driver.

Automatic duplexing feature is enabled by default. To disable automatic duplexing, change the product configuration settings. See [Change printer-driver settings for Macintosh on page 19](#).

1. Insert enough paper into the input tray to accommodate the print job. If you are loading special paper such as letterhead, load it face-down in the tray.
2. On the **File** menu, click **Print**.
3. Open the **Layout** menu.
4. Next to **Two-Sided**, select either **Long-Edge Binding** or **Short-Edge Binding**.
5. Click **Print**.

Manual

1. Insert enough paper into the input tray to accommodate the print job. If you are loading special paper such as letterhead, load it face-down in the tray.
2. On the **File** menu, click **Print**.
3. **Mac OS X v10.4:** In the **Layout** drop-down list, select the **Long-edged binding** item or the **Short-edged binding** item.
-or-
Mac OS X v10.5 and v10.6: Click the **Two-sided** check box.
4. Click **Print**. Follow the instructions in the dialog box that opens on the computer screen before placing the output stack in the tray for printing the second half.
5. Go to the product, and remove any blank paper that is in the tray.
6. Take the printed stack from the output bin, and then insert the stack printed side down into the tray with the top edge feeding into the product first.
7. At the computer, click the **Continue** button to finish the print job.

4 Connect the product

- [Supported network operating systems](#)
- [Connect with USB](#)
- [Connect to a network](#)

Supported network operating systems

 **NOTE:** Only the HP LaserJet Professional P1600 printer series supports network functions.

The following operating systems support network printing:

- Windows 7 (32-bit and 64-bit)
- Windows Vista (Starter Edition, 32-bit, and 64-bit)
- Windows XP (32-bit, Service Pack 2)
- Windows XP (64-bit, Service Pack 1)
- Windows Server 2008 (32-bit and 64-bit)
- Windows Server 2003 (Service Pack 1)
- Mac OS X v10.4, v10.5, and v10.6

Printer sharing disclaimer

HP does not support peer-to-peer networking, as the feature is a function of Microsoft operating systems and not of the HP printer drivers. Go to Microsoft at www.microsoft.com.

Connect with USB

This product supports a USB 2.0 connection. You must use an A-to-B type USB cable that is no longer than 2 meters (6.56 feet).

HP Smart Install

 **NOTE:** This installation type is supported for Windows only.

The HP Smart Install allows you to install the product driver and software by connecting the product to a computer through a USB cable.

 **NOTE:** The installation CD is not required during a HP Smart Install. Do not insert the software installation CD into the computer CD drive.

1. Turn the product on.
2. Connect the USB cable.
3. The HP Smart Install program should start automatically. Follow the onscreen instructions to install the software.
 - If the HP Smart Install program does not start automatically, AutoPlay might be disabled on the computer. Browse the computer and double-click the HP Smart Install drive to run the program.
 - If the program prompts you to select a connections type, select the **Configure to print using USB** option.

CD installation

1. Insert the software installation CD into the computer CD drive.

 **NOTE:** Do not connect the USB cable until prompted.

2. If the installation program does not open automatically, browse the CD contents and run the SETUP.EXE file.
3. Follow the onscreen instructions for installing the software.

When you use the CD to install the software, you can select the following types of installations:

- Easy Install (recommended)
You are not prompted to accept or make changes to defaults.
- Advanced Install
You are prompted to accept or make changes to defaults.

Connect to a network

The HP LaserJet Professional P1600 printer series can connect to networks through the HP internal networking port.

Supported network protocols

To connect a networking-equipped product to your network, you need a network that uses the following protocol.

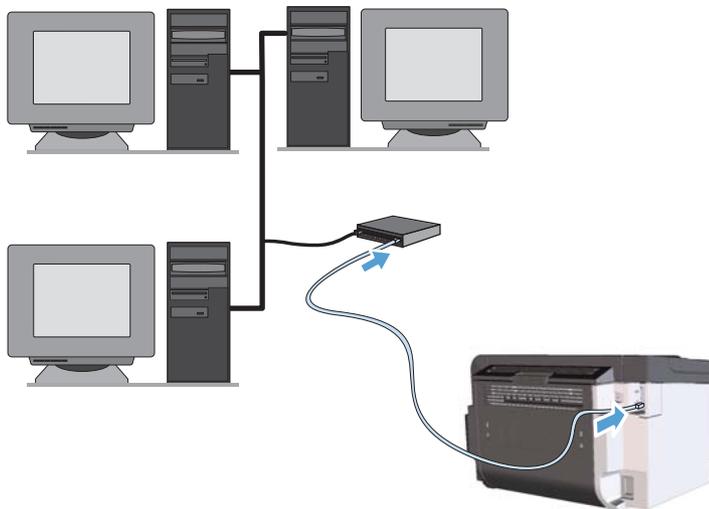
- Functional wired TCP/IP network

Install the product on a wired network

 **NOTE:** To resolve network connection problems, see [Solve connectivity problems on page 104](#).

You can install the product on a network by using the HP Smart Install or from the product CD. Before you begin the installation process, do the following:

- Connect the CAT-5 Ethernet cable to an available port on the Ethernet hub or router.
- Connect the Ethernet cable to the Ethernet port on the back of the product.
- Verify that one of the network lights is illuminated on the network port located on the back of the product.



HP Smart Install on a wired network

 **NOTE:** This installation type is supported for Windows only.

1. Print a configuration page and locate the product IP address. See [Print information pages on page 54](#).
2. Open a Web browser using the computer where you want to install the product.
3. Type the IP address for the product in the address line of the browser.
4. Click the **HP Smart Install** tab.
5. Click the **Download** button.
6. Follow the onscreen instructions to complete the product installation.

CD installation on a wired network

 **NOTE:** When you use the CD to install the software, you can select the Easy Install (recommended) or the Advanced Install (you are prompted to accept or make changes to defaults) installation type.

1. Insert the software installation CD into the computer CD drive.
2. If the installation program does not open automatically, browse the CD contents and run the SETUP.EXE file.
3. Follow the onscreen instructions for setting up the product and installing the software.

 **NOTE:** Make sure that you select **Configure to print over the Network** when prompted.

Configure network settings

View or change network settings

Use the embedded Web server to view or change IP configuration settings.

1. Print a configuration page, and locate the IP address.
 - If you are using IPv4, the IP address contains only digits. It has this format:
`xxx.xxx.xxx.xxx`
 - If you are using IPv6, the IP address is a hexadecimal combination of characters and digits. It has a format similar to this:
`xxxx::xxxx:xxxx:xxxx:xxxx`
2. To open the embedded Web server, type the IP address into the address line of a Web browser.
3. Click the **Networking** tab to obtain network information. You can change settings as needed.

Set or change the network password

Use the embedded Web server to set a network password or change an existing password.

1. Open the embedded Web server, click the **Networking** tab, and click the **Password** link.

 **NOTE:** If a password has previously been set, you are prompted to type the password. Type the password, and then click the **Apply** button.

2. Type the new password in the **Password** box and in the **Confirm Password** box.
3. At the bottom of the window, click the **Apply** button to save the password.

IP address

The product IP address can be set manually, or it can be configured automatically using DHCP, BootP, or AutoIP.

To change the IP address manually, use the **Networking** tab in the HP Embedded Web Server.

Link speeds and duplex settings

 **NOTE:** In this section duplex refers to bi-directional communication, not two-sided printing.

Use the **Networking** tab in the embedded Web server to set the link speed if necessary.

Incorrect changes to the link speed setting might prevent the product from communicating with other network devices. For most situations, leave the product in automatic mode. Changes can cause the product to turn off, and then on. Make changes only when the product is idle.

5 Paper and print media

- [Understand paper and print media use](#)
- [Special paper or print media guidelines](#)
- [Change the print driver to match the media type and size](#)
- [Supported paper sizes](#)
- [Supported paper types](#)
- [Tray and bin capacity](#)
- [Load paper trays](#)

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 poor print quality, increased jams, and premature wear on the product.

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.

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 the printer driver to obtain the best results.

⚠ CAUTION: HP LaserJet products 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 could damage the product.

| Media type | Do | Do not |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Envelopes | <ul style="list-style-type: none">• 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. | <ul style="list-style-type: none">• 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 | <ul style="list-style-type: none">• Use only labels that have no exposed backing between them.• Use labels that lie flat.• Use only full sheets of labels. | <ul style="list-style-type: none">• Do not use labels that have wrinkles or bubbles, or are damaged.• Do not print partial sheets of labels. |
| Transparencies | <ul style="list-style-type: none">• Use only transparencies that are approved for use in laser printers.• Place transparencies on a flat surface after removing them from the product. | <ul style="list-style-type: none">• Do not use transparent print media not approved for laser printers. |
| Letterhead or preprinted forms | <ul style="list-style-type: none">• Use only letterhead or forms approved for use in laser printers. | <ul style="list-style-type: none">• Do not use raised or metallic letterhead. |
| Heavy paper | <ul style="list-style-type: none">• Use only heavy paper that is approved for use in laser printers and meets the weight specifications for this product. | <ul style="list-style-type: none">• 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 | <ul style="list-style-type: none">• Use only glossy or coated paper that is approved for use in laser printers. | <ul style="list-style-type: none">• Do not use glossy or coated paper designed for use in inkjet products. |

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**.

Supported paper sizes

This product supports various 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.

The printer driver only supports certain media sizes for automatic duplexing. Use the manual duplexing procedure for media sizes not available in the printer driver.

Table 5-1 Supported paper and print media sizes

| Size | Dimensions | Main-input tray | Priority input slot |
|-----------|----------------------------------------------|-----------------|---------------------|
| Letter | 216 x 279 mm (8.5 x 11 in) | ✓ | ✓ |
| Legal | 216 x 356 mm (8.5 x 14 in) | ✓ | ✓ |
| A4 | 210 x 297 mm (8.27 x 11.69 in) | ✓ | ✓ |
| Executive | 184 x 267 mm (7.25 x 10.5 in) | ✓ | ✓ |
| 8.5 x 13 | 216 x 330 mm (8.5 x 13 in) | ✓ | ✓ |
| A5 | 148 x 210 mm (5.83 x 8.27 in) | ✓ | ✓ |
| A6 | 105 x 148 mm (4.13 x 5.83 in) | ✓ | ✓ |
| B5 (JIS) | 182 x 257 mm (7.17 x 10.12 in) | ✓ | ✓ |
| 16k | 184 x 260 mm (7.24 x 10.23 in) | | |
| | 195 x 270 mm (7.68 x 10.62 in) | ✓ | ✓ |
| | 197 x 273 mm (7.75 x 10.75 in) | | |
| Custom | Minimum: 76 x 127 mm (3 x 5 in) | ✓ | ✓ |
| | Maximum: 216 x 356 mm (8.5 x 14.0 in) | | |

Table 5-2 Supported envelopes and postcards

| Size | Dimensions | Main-input tray | Priority input slot |
|------------------|-------------------------------|-----------------|---------------------|
| Envelope #10 | 105 x 241 mm (4.13 x 9.49 in) | ✓ | ✓ |
| Envelope DL | 110 x 220 mm (4.33 x 8.66 in) | ✓ | ✓ |
| Envelope C5 | 162 x 229 mm (6.93 x 9.84 in) | ✓ | ✓ |
| Envelope B5 | 176 x 250 mm (6.7 x 9.8 in) | ✓ | ✓ |
| Envelope Monarch | 98 x 191 mm (3.9 x 7.5 in) | ✓ | ✓ |

Table 5-2 Supported envelopes and postcards (continued)

| Size | Dimensions | Main-input tray | Priority input slot |
|----------------------------------|-------------------------------|------------------------|----------------------------|
| Japanese Postcard | 100 x 148 mm (3.94 x 5.83 in) | ✓ | ✓ |
| Double Japanese Postcard Rotated | 148 x 200 mm (5.83 x 7.87 in) | ✓ | ✓ |

Supported paper types

For a complete list of specific HP-brand paper that this product supports, go to www.hp.com/support/ljp1560series or www.hp.com/support/ljp1600series.

| Paper type (printer driver) | Main-input tray | Priority input slot |
|------------------------------------|------------------------|----------------------------|
| Plain | ✓ | ✓ |
| Recycled | ✓ | ✓ |
| Vellum | ✓ | ✓ |
| Light | ✓ | ✓ |
| Mid-weight | ✓ | ✓ |
| Heavy | ✓ | ✓ |
| Extra Heavy | ✓ | ✓ |
| Letterhead | ✓ | ✓ |
| Preprinted | ✓ | ✓ |
| Prepunched | ✓ | ✓ |
| Color | ✓ | ✓ |
| Bond | ✓ | ✓ |
| Rough | ✓ | ✓ |
| Envelope | ✓ | ✓ |
| Labels | ✓ | ✓ |
| Cardstock | ✓ | ✓ |
| Transparency | ✓ | ✓ |
| Postcards | ✓ | ✓ |

Tray and bin capacity

| Tray or bin | Paper type | Specifications | Quantity |
|---------------------|----------------|------------------------------------------------------------------------------------|----------------------------------------------------------------|
| Main-input tray | Paper | Range: 60 g/m ² (16 lb) bond to 163 g/m ² (43 lb) bond | 250 sheets of 75 g/m ² (20 lb) bond |
| | Envelopes | Less than 60 g/m ² (16 lb) bond to 90 g/m ² (24 lb) bond | Up to 10 envelopes |
| | Transparencies | Minimum 0.13 mm (0.005 in) thick | Up to 125 transparencies |
| Priority input slot | Paper | Range: 60 g/m ² (16 lb) bond to 163 g/m ² (43 lb) bond | Equivalent to 10 sheets of 75 g/m ² (20 lb) bond |
| | Transparencies | Minimum 0.13 mm (0.005 in) thick | Maximum stack height: 1 mm (0.03 in) |
| Output bin | Paper | Range: 60 g/m ² (16 lb) bond to 163 g/m ² (43 lb) bond | Up to 125 sheets of 75 g/m ² (20 lb) bond |
| | Transparencies | Minimum 0.13 mm (0.005 in) thick | Up to 75 transparencies |
| | Envelopes | Less than 60 g/m ² (16 lb) bond to 90 g/m ² (24 lb) bond | Up to 10 envelopes |

Load paper trays

 **CAUTION:** If you try to print on media that is wrinkled, folded, or damaged in any way, a jam might occur. See [Clear jams on page 85](#) for more information.

Priority input slot

The priority input slot holds up to ten sheets of media or one envelope, one transparency, or one sheet of labels or cardstock. Load media with the top forward and the side to be printed on facing up. To prevent jams and skewing, always adjust the side media guides before feeding the media.

Main-input tray

The main-input tray holds 250 pages of 75 g/m² (20 lb) paper, or fewer pages of heavier media (a 25 mm (0.9 in) stack height or less).

Load media with the top forward and the side to be printed on facing up. To prevent jams and skewing, always adjust the side and front media guides.

 **NOTE:** When you add new media, make sure that you remove all of the media from the input tray and straighten the entire stack. This helps prevent multiple sheets of media from feeding through the product at one time, reducing media jams.

Paper orientation for loading trays

Only use media that is recommended for laser printers. See [Supported paper sizes on page 35](#).

If you are using paper that requires a specific orientation, load it according to the information in the following table.

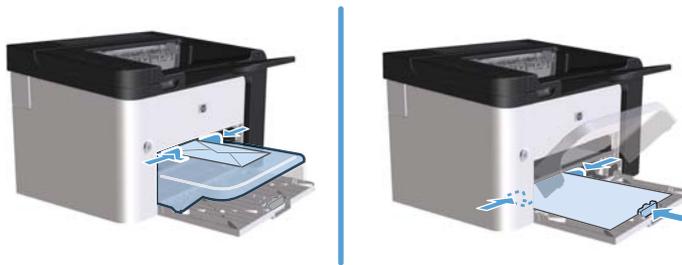
| Paper type | How to load paper |
|--------------------------|---------------------------------------------------------------------------------------------------------------|
| Preprinted or letterhead | <ul style="list-style-type: none">• Face up• Top edge leading into the product |
| Prepunched | <ul style="list-style-type: none">• Face up• Holes toward the left side of the product |
| Envelope | <ul style="list-style-type: none">• Face up• Left short edge leading into the product |

 **NOTE:** Use the priority input slot for printing one envelope or other special media. Use the main-input tray for printing multiple envelopes or other special media.

1. Before loading the media, slide the media guides outward to slightly wider than the media.



2. Place the media in the tray and adjust the media guides to the correct width.



6 Print tasks

- [Cancel a print job](#)
- [Print with Windows](#)

Cancel a print job

You can stop a print request by using the control panel or by using the software program. For instructions about 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 control panel

- ▲ Press the cancel button **X** on the control panel.

Stop the current print job from the software program

When you send the print job, a dialog box appears 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 program documentation for specific instructions about canceling a print request from the computer.

If a print job is waiting in a print queue or print spooler, delete the print job there.

- 1. Windows XP, Windows Server 2008, and Windows Server 2003 (using the default Start menu view):** Click **Start**, and then click **Printers and Faxes**.

-or-

Windows XP, Windows Server 2008, and Windows Server 2003 (using the Classic Start menu view): Click **Start**, and then click **Printers**.

-or-

Windows Vista and Windows 7: Click **Start**, click **Control Panel**, and then in the category for **Hardware and Sound** click **Printer**.

- 2.** In the list of printers, double-click the name of this product to open the print queue or spooler.
- 3.** Select the print job that you want to cancel, right-click the job, and then click the **Cancel** or **Delete** item.

Print with Windows

Open the Windows printer driver

1. On the **File** menu in the software program, click **Print**.
2. Select the product, and then click **Properties** or **Preferences**.

Get help for any print option with Windows

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.

Change the number of print copies with Windows

1. Open the printer driver, click the **Properties** or **Preferences** button, and then click the **Advanced** tab.
2. In the **Copies** area, use the arrow buttons to adjust the number of copies.
If you are printing multiple copies, click the **Collate** check box to collate the copies.
3. Click the **OK** button.

Print colored text as black with Windows

1. Open the printer driver, click the **Properties** or **Preferences** button, and then click the **Advanced** tab.
2. Click the **Print All Text as Black** check box.
3. Click the **OK** button.

Save custom print settings for reuse with Windows

Use a printing quick set

1. Open the printer driver, and then click the **Properties** or **Preferences** button. The **Print Tasks Quick Sets** drop-down list appears on all tabs except the **Services** tab.
2. In the **Print Tasks Quick Sets** drop-down list, select one of the quick sets, and then click **OK** to print the job with the predefined settings.

Create a custom printing quick set

1. Open the printer driver, and then click the **Properties** or **Preferences** button. The **Print Tasks Quick Sets** drop-down list appears on all tabs except the **Services** tab.
2. Select an existing quick set as a base.
3. Select the print options for the new quick set.
4. Click **Save As**, type a name for the quick set, and then click **OK**.

Improve print quality with Windows

Select a page size

1. Open the printer driver, click the **Properties** or **Preferences** button, and then click the **Paper/Quality** tab.
2. Select a size from the **Size is** drop-down list.
3. Click the **OK** button.

Select a custom page size

1. Open the printer driver, and then click the **Paper/Quality** tab.
2. Click the **Custom** button. The **Custom Paper Size** dialog box opens.
3. Type a name for the custom size, specify the dimensions, and then click **Save**.
4. Click the **Close** button, and then click the **OK** button.

Select a paper type

1. Open the printer driver, click the **Properties** or **Preferences** button, and then click the **Paper/Quality** tab.
2. Select a type from the **Type is** drop-down list.
3. Click the **OK** button.

Select the print resolution

1. Open the printer driver, click the **Properties** or **Preferences** button, and then click the **Paper/Quality** tab.
2. In the **Print Quality** area, select an option from the drop-down list. See the printer-driver online Help for information about each of the available options.



NOTE: To use a draft-quality resolution, in the **Print Quality** area, click the **EconoMode** check box.

3. Click the **OK** button.

Print the first or last page on different paper with Windows

1. Open the printer driver, click the **Properties** or **Preferences** button, and then click the **Paper/Quality** tab.
2. Click the **Use Different Paper/Covers** check box, and then select the necessary settings for the front cover, other pages, and back cover.
3. Click the **OK** button.

Scale a document to fit page size with Windows

1. Open the printer driver, click the **Properties** or **Preferences** button, and then click the **Effects** tab.
2. Click the **Print document on** check box, and then select a size from the drop-down list.
3. Click the **OK** button.

Add a watermark to a document with Windows

1. Open the printer driver, click the **Properties** or **Preferences** button, and then click the **Effects** tab.
2. Select a watermark from the **Watermarks** drop-down list.

To print the watermark on the first page only, click the **First page only** check box. Otherwise, the watermark is printed on each page.
3. Click the **OK** button.

Print on both sides (duplex) with Windows

Automatic

 **NOTE:** Automatic duplexing is only supported for the HP LaserJet Professional P1600 printer series product.

The printer driver only supports certain media sizes for automatic duplexing. Use the manual duplexing procedure for media sizes not available in the printer driver.

Before you can use the automatic duplexing feature, you must select the **Allow Automatic Duplexing** check box on the **Device Settings** tab of the printer properties dialog box. See [Change printer-driver settings for Windows on page 13](#).

1. Load paper face-down in the priority input slot or in the main-input tray.



2. Open the printer driver, and then click the **Finishing** tab.
3. Click the **Print on both sides** check box. If you will bind the document along the top edge, click the **Flip pages up** check box.
4. At the computer, click the **OK** button to print the job.

Manual

Before you can use the manual duplexing feature, you must select the **Allow Manual Duplexing** check box on the **Device Settings** tab of the printer properties dialog box. See [Change printer-driver settings for Windows on page 13](#).

1. Load paper face-down in the priority input slot or in the main-input tray.



2. Open the printer driver, and then click the **Finishing** tab.
3. Click the **Print on both sides (manually)** check box. If you will bind the document along the top edge, click the **Flip pages up** check box.
4. Click the **OK** button to print the first side of the job.

5. Retrieve the printed stack from the output bin, and, maintaining the paper orientation, place it with the printed-side facing down in the main-input tray.



6. At the product control panel, press the go button  to print the second side of the job.

Create a booklet with Windows

1. Open the printer driver, click the **Properties** or **Preferences** button, and then click the **Finishing** tab.
2. Click the **Print on both sides (manually)** check box.
3. In the **Booklet layout** drop-down list, click the **Left binding** or **Right binding** option. The **Pages per sheet** option automatically changes to **2 pages per sheet**.
4. Click the **OK** button.

Print multiple pages per sheet with Windows

1. Open the printer driver, click the **Properties** or **Preferences** button, and then click the **Finishing** tab.
2. Select the number of pages per sheet from the **Pages per sheet** drop-down list.
3. Select the correct options for **Print Page Borders**, **Page Order**, and **Orientation**.
4. Click the **OK** button.

Select page orientation with Windows

1. Open the printer driver, click the **Properties** or **Preferences** button, and then click the **Finishing** tab.
2. In the **Orientation** area, select the **Portrait** or **Landscape** option.
To print the page image upside down, select the **Rotate by 180 degrees** option.
3. Click the **OK** button.

Use HP ePrint

HP ePrint is a suite of Web-based printing services that enable a supported HP product to print documents of the following types:

- E-mail messages and attachments sent directly to the HP product's e-mail address
- Documents from select mobile device print applications

Use HP Cloud Print

Use HP Cloud Print to print e-mail messages and attachments by sending them to the product's e-mail address from any e-mail enabled device.



NOTE: The product must be connected to a wired or wireless network. To use HP Cloud Print, you must first have access to the Internet and enable HP Web Services.

1. Enable HP Web Services in the HP Embedded Web Server (EWS) by following these steps:
 - a. After the product is connected to the network, print a configuration page and identify the product IP address.
 - b. At your computer, open a Web browser and enter the product IP address into the address line. The HP EWS appears.
 - c. Click the **HP Web Services** tab. If your network does not use a proxy server to access the Internet, proceed to the next step. If your network uses a proxy server to access the Internet, follow these instructions before proceeding to the next step:
 - i. Select the **Proxy Settings** tab.
 - ii. Select the **Check this box if your network uses a proxy server to access the Internet** check box.
 - iii. In the **Proxy Server** field, enter the proxy server address and port number, and then click the **Apply** button.

- d. Select the HP Web Services tab and click the **Enable** button. The product configures the connection to the Internet, and then a message appears informing you that an information sheet will be printed.
 - e. Click the **OK** button. An ePrint page prints out. On the ePrint page, look for the e-mail address that is automatically assigned to the product.
 2. To print a document, attach it to an e-mail message, and then send the message to the product's e-mail address. Go to www.hpeprintcenter.com for a list of supported document types
 3. Optionally, use the HP ePrintCenter Web site to define security settings and to configure default print settings for all HP ePrint jobs sent to this product:
 - a. Open a Web browser and go to www.hpeprintcenter.com.
 - b. Click **Sign In**, and enter your HP ePrintCenter credentials or sign up for a new account.
 - c. Select your product from the list, or click the **+ Add printer** button to add it. To add the product, you need the product code, which is the segment of the product e-mail address that is before the @ symbol.



NOTE: This code is valid for only 24 hours from the time you enable HP Web Services. If it expires, follow the instructions to enable HP Web Services again, and obtain a new code.

- d. Click the **Setup** button. The **HP ePrint Settings** dialog box appears. Three tabs are available:
 - **Allowed Senders.** To prevent your product from printing unexpected documents, click the **Allowed Senders** tab. Click **Allowed Senders Only**, and then add the e-mail addresses from which you want to allow ePrint jobs.
 - **Print Options.** To set up default settings for all ePrint jobs sent to this product, click the **Print Options** tab, and then select the settings that you want to use.
 - **Advanced.** To change the product's e-mail address, click the **Advanced** tab.

Use AirPrint

Direct printing using Apple's AirPrint is supported for iOS 4.2 or later. Use AirPrint to print directly to the product from an iPad (iOS 4.2), iPhone (3GS or later), or iPod touch (third generation or later) in the following applications:

- Mail
- Photos
- Safari
- Select third-party applications



NOTE: The product must be connected to a wired or wireless network.

To print, follow these steps:

1. Tap the **action**  item.

2. Tap **Print**.

 **NOTE:** If you are printing for the first time, or if your previously selected product is not available, you must select a product before proceeding to the next step.

3. Configure the print options and then tap **Print**.

7 Manage and maintain

- [Print information pages](#)
- [Use the HP Embedded Web Server](#)
- [Economy settings](#)
- [Quiet mode settings](#)
- [Manage supplies and accessories](#)
- [Clean the product](#)
- [Product updates](#)

Print information pages

You can print the following information pages.

Configuration page

The configuration page lists current product settings and properties. This page also contains a status log report. To print a configuration page, do one of the following:

- Press and hold the go button  when the ready light  is on and no other jobs are printing. Release the go button  when the ready light  begins blinking. The configuration page prints.
- Select **Config Page** from the **Print Information Pages** drop-down on the **Services** tab in the Printer Preferences.
- **HP LaserJet Professional P1600 printer series only:** Open the embedded Web server (see [Open the embedded Web server on page 55](#)), click the **Information** tab, and then select **Print Info Pages**. Click the **Print** button next to **Print Configuration Page**.

Supplies status page

The supplies status page provides the following information:

- The estimated percentage of toner remaining in the print cartridge (only available if a genuine HP print cartridge is installed)
- The number of pages and print jobs that have been processed (only available if a genuine HP print cartridge is installed)
- Ordering and recycling information

To print a supplies status page, do one of the following:

- selecting **Supply Status Page** from the **Print Information Pages** drop-down on the **Services** tab in the Printer Preferences.
- **HP LaserJet Professional P1600 printer series only:** Open the embedded Web server (see [Open the embedded Web server on page 55](#)), click the **Information** tab, and then select **Print Info Pages**. Click the **Print** button next to **Print Supplies Page**.

Demo page

The demo page contains examples of text and graphics. To print a demo page, do one of the following:

- Press and release the go button  when the ready light  is on and no other jobs are printing. The demo page prints.
- Select **Demo Page** from the **Print Information Pages** drop-down on the **Services** tab in the Printer Preferences.

Use the HP Embedded Web Server

 **NOTE:** Only the HP LaserJet Professional P1600 printer series supports the embedded Web server.

Use the embedded Web server (EWS) to view product and network status and to manage printing functions from your computer.

- View product status information
- Determine the remaining life on all supplies and order new ones
- View and change the product default configuration settings
- View and change network configuration

You do not need to install any software on the computer. You only need to use one of these supported Web browsers:

- Microsoft Internet Explorer 6.0 (and later)
- Firefox 1.0 (and later)
- Mozilla 1.6 (and later)
- Opera 7.0 (and later)
- Safari 1.2 (and later)
- Konqueror 3.2 (and later)

The embedded Web server works when the product is connected to a TCP/IP-based network. The embedded Web server does not support IPX-based connections or direct USB connections.

 **NOTE:** You do not have to have Internet access to open and use the embedded Web server. However, if you click a link on any of the pages, you must have Internet access to open the linked site.

Open the embedded Web server

To open the embedded Web server, type the IP address or host name of the product in the address field of a supported Web browser. To find the IP address, print a configuration page at the product by pressing and holding the go button  when the ready light  is on and no other jobs are printing. Release the go button  when the ready light  begins blinking. The configuration page prints.

 **NOTE:** The HP LaserJet Professional P1600 printer series supports IPv4 and IPv6. For more information, go to www.hp.com/go/ljp1600series.

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

The embedded Web server has four tabs that contain settings and information about the product: the **Information** tab, the **Settings** tab, the **HP Smart Install** tab, and the **Networking** tab.

Embedded Web server sections

Information tab

The Information pages group consists of the following pages:

- **Device Status** displays the status of the product and HP supplies.
- **Device Configuration** shows the information found on the configuration page.
- **Supplies Status** shows the status of HP supplies and provides part numbers. To order new supplies, click **Shop for Supplies** in the upper-right part of the window.
- **Network Summary** shows the information found on the Network Summary page.
- **Print Info pages** allows you to print a configuration page or a supplies status page.

Settings tab

Use this tab to configure the product from your computer. If this product is networked, always consult with the product administrator before changing settings on this tab.

Networking tab

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

HP Smart Install tab



NOTE: This tab is supported for Windows only.

Use this tab to download and install the printer driver.

Links

Links are located in the upper-right part of the Status pages. You must have Internet access to use any of these links. If you use a dial-up connection and did not connect when you first opened the embedded Web server, you must connect before you can visit these Web sites. Connecting might require that you close the embedded Web server and reopen it.

- **Shop for Supplies.** Click this link to connect to the Sure Supply Web site (www.hp.com/post-embed/ordersupplies-na) and order genuine HP supplies from HP or a reseller of your choice.
- **Support.** Connects to the product support site. You can search for help regarding general topics.

Economy settings

EconoMode

This product has an EconoMode option for printing drafts of documents. Using EconoMode can use less toner and decrease the cost per page. However, using EconoMode can also reduce print quality.

HP does not recommend the full-time use of EconoMode. If EconoMode is used full-time, the toner supply might outlast the mechanical parts in the print cartridge. If print quality begins to degrade under these circumstances, you must install a new print cartridge, even if there is toner supply remaining in the cartridge.

Enable or disable EconoMode in any of these ways:

- In the Windows Printer Properties, open the **Paper/Quality** tab, and select the **EconoMode** option.
- In the embedded Web server (HP LaserJet Professional P1600 printer series only), open the **Settings** tab and select the **PCL Settings** option. Use the **Settings** drop-down list to select **On** or **Off**.

 **NOTE:** Disabling EconoMode by using the embedded Web server only effects print jobs that use the PCL 5 universal Printer Driver (available for download from the Web).

To deselect EconoMode for print jobs that use the printer driver that comes on the product CD, you must deselect **EconoMode** in the printer driver.

- In the HP Printer Utility for Macintosh, click **Print Settings**, and then click **Economode & Toner Density**.

Auto-Off mode

Auto-Off is an energy-saving feature of this product. After a user-specified time period, the product automatically reduces its power consumption (Auto-Off). The product returns to the ready state when a button is pressed or a print job is received. When the product is in Auto-Off mode, all of the control-panel LEDs and the power button backlight LED are off.

 **NOTE:** Although the product lights are off in Auto-Off mode, the product will work normally when it receives a print job.

Wireless models do not support the Auto-On/Auto-Off mode. Sleep mode, with power consumption of 3.4W, is supported on wireless models.

Change the Auto-Off delay time

You can change how long the product remains idle (Auto-Off delay) before it enters Auto-Off mode.

 **NOTE:** The default Auto-Off delay setting is 5 minutes.

1. Open the printer properties, and then click the **Device Settings** tab.
2. Select the Auto-Off delay from the **Auto-Off** drop-down list.



NOTE: The changed setting does not go into effect until a print job is sent to product.

Quiet mode settings

This product has a quiet mode that reduces noise during printing. When quiet mode is turned on, the product prints at a slower speed.

 **NOTE:** Quiet mode reduces the product print speed, which might improve print quality.

Follow these steps to enable quiet mode.

1. Open the printer properties, and then click the **Device Settings** tab.
2. Click the **Enable** option to turn on the **Quiet Mode** feature.

Manage supplies and accessories

Correctly using, storing, and monitoring the print cartridge can help ensure high-quality output.

Manage print cartridges

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 genuine HP print cartridge, see [Replace the print cartridge on page 63](#).

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).

Recycle supplies

To install a new HP print cartridge, follow the instructions that are included in the box that contains the new supply, or see the getting started guide.

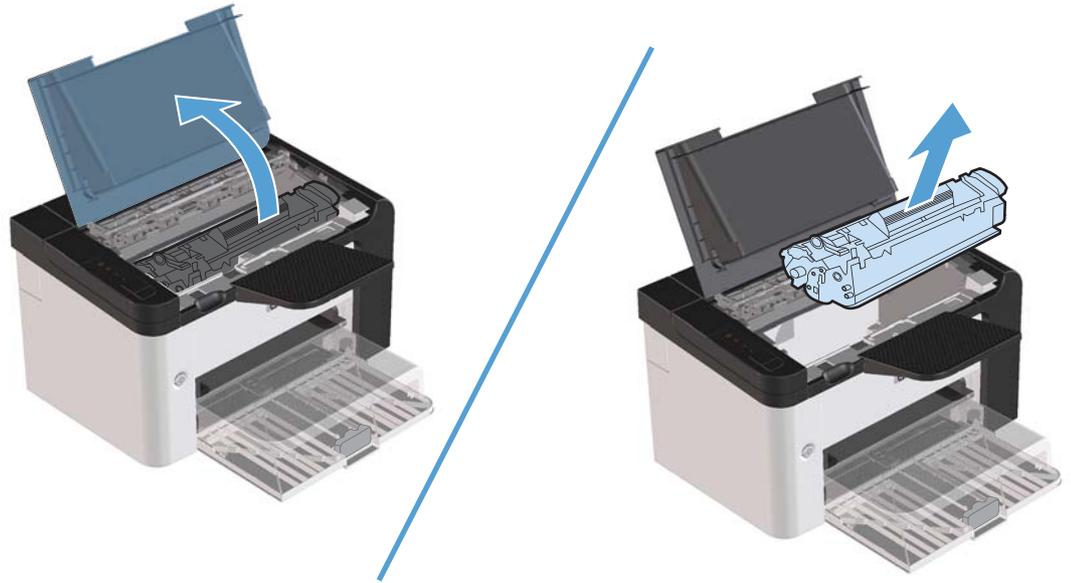
To recycle supplies, place the used supply in the box in which the new supply arrived. Use the enclosed return label to send the used supply to HP for recycling. For complete information, see the recycling guide that is included with each new HP supply item.

Replacement instructions

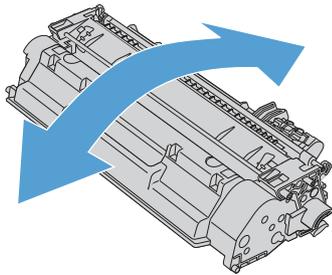
Redistribute toner

When a small amount of toner remains in print cartridge, faded or light areas might appear on the printed page. You might be able to temporarily improve print quality by redistributing the toner.

1. Open the print-cartridge door, and then remove the print cartridge.

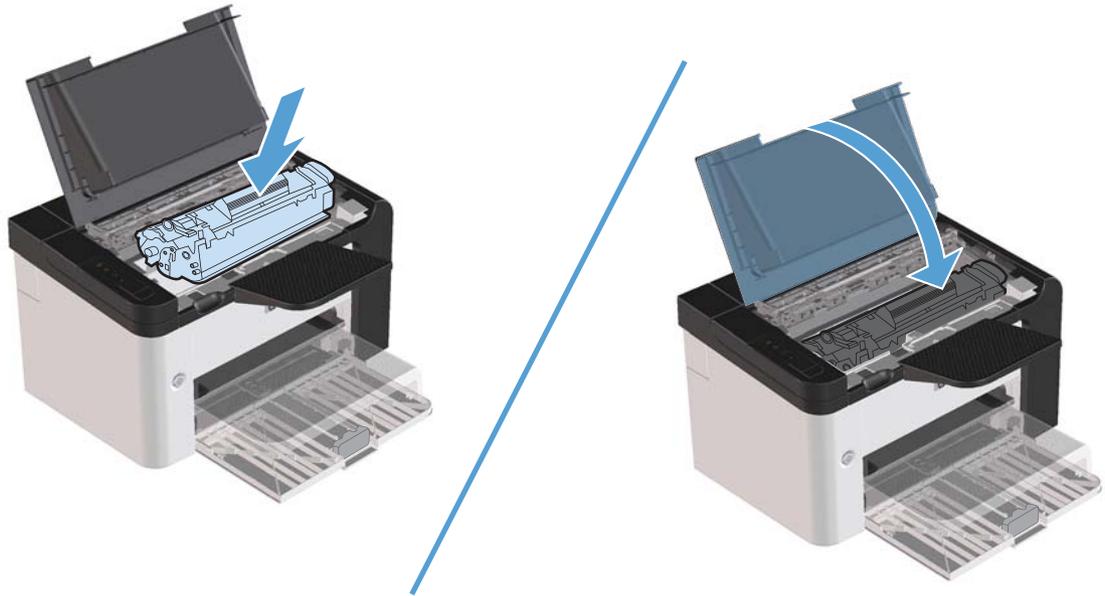


2. To redistribute the toner, gently rock the print cartridge from front to back.



⚠ CAUTION: If toner gets on your clothing, wipe it off with a dry cloth and wash the clothing in cold water. *Hot water sets toner into the fabric.*

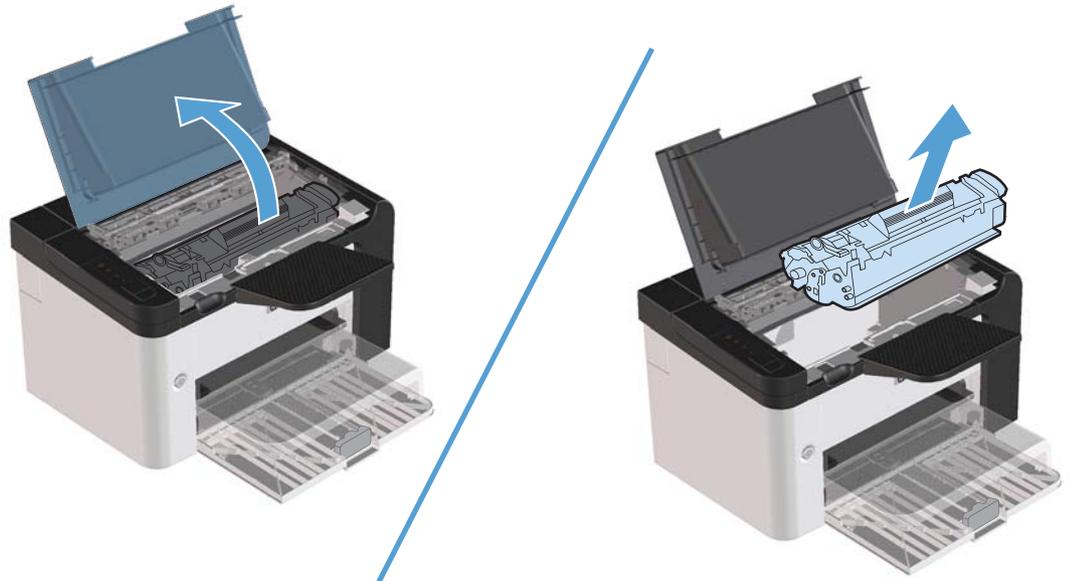
3. Reinsert the print cartridge into the product, and then close the print-cartridge door.



If the print is still light, install a new print cartridge.

Replace the print cartridge

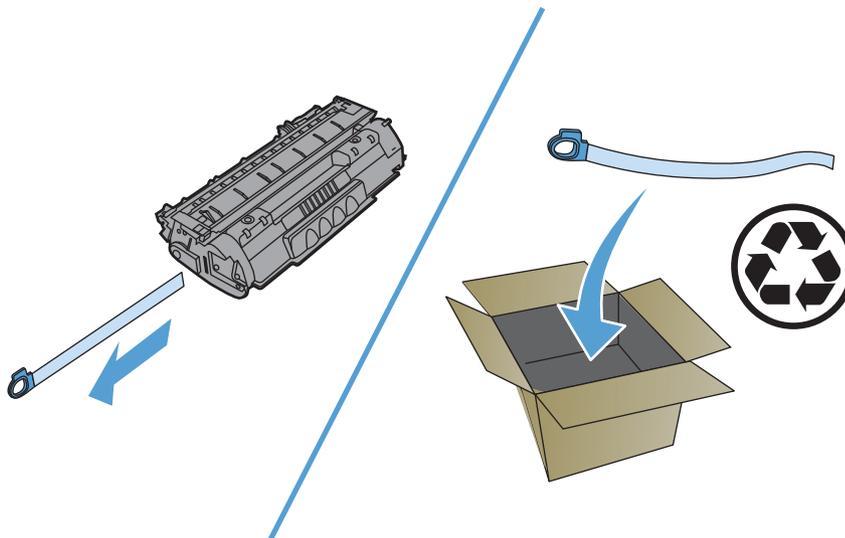
1. Open the print-cartridge door, and remove the old print cartridge. See the recycling information inside the print-cartridge box.



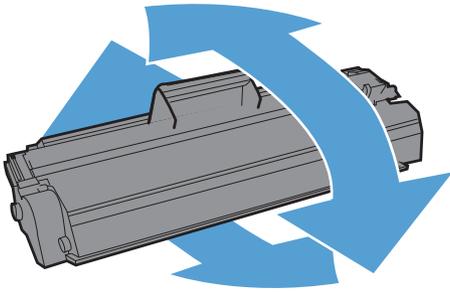
2. Remove the new print cartridge from the bag.

⚠ CAUTION: To prevent damage to the print cartridge, hold the print cartridge at each end.

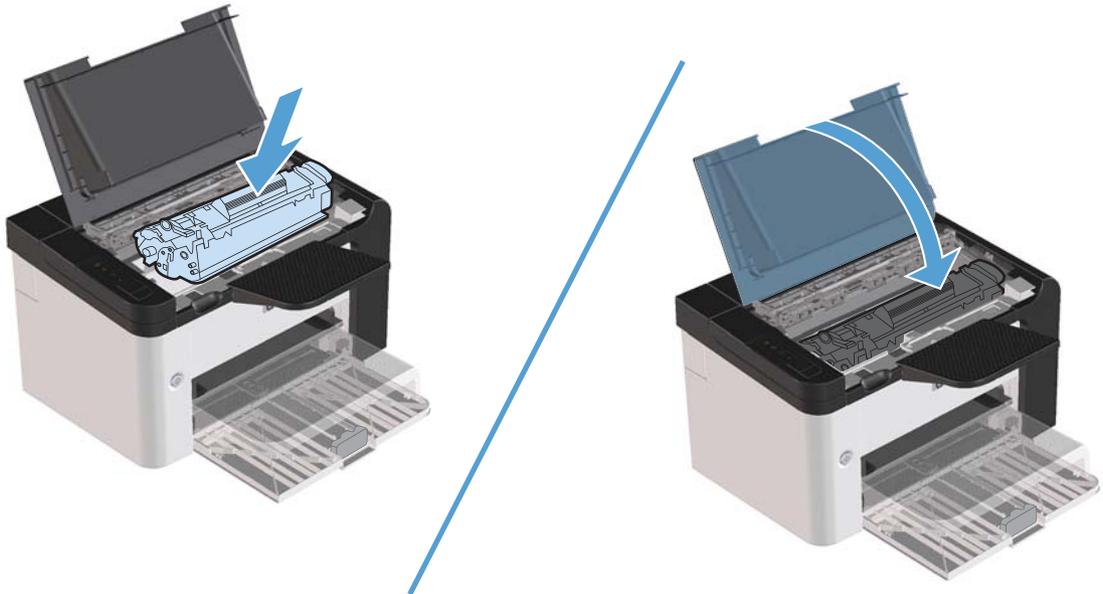
3. Pull the tab and completely remove the tape from the cartridge. Put the tab in the print-cartridge box to return for recycling.



4. Gently rock the print cartridge from front to back to distribute the toner evenly inside the cartridge.



5. Insert the print cartridge in the product and close the print-cartridge door.



CAUTION: If toner gets on your clothing, wipe it off with a dry cloth and wash clothing in cold water. *Hot water sets toner into fabric.*

NOTE: When toner is low, faded or light areas appear on the printed page. You might be able to temporarily improve print quality by redistributing the toner. To redistribute the toner, remove the cartridge from the product and gently rock it from front to back.

Replace the pickup roller

Normal use with good media causes wear. The use of poor media might require more frequent replacement of the pickup roller.

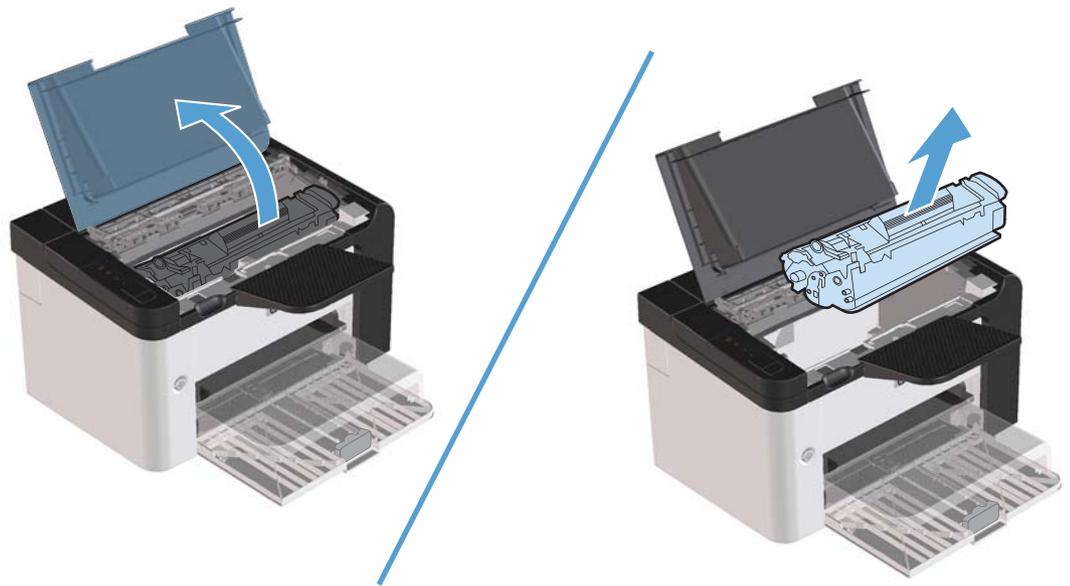
If the product regularly mispicks (no media feeds through), you might need to change or clean the pickup roller. See [Clean the pickup roller on page 71](#) to order a new pickup roller.

⚠ WARNING! Before changing the pickup roller, use the power switch to turn the product off, and wait for the product to cool.

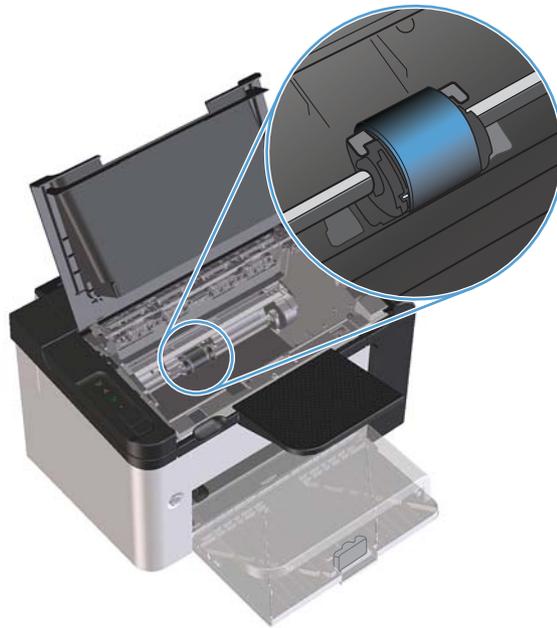
⚠ CAUTION: Failure to complete this procedure might damage the product.

1. Open the print-cartridge door, and remove the print cartridge.

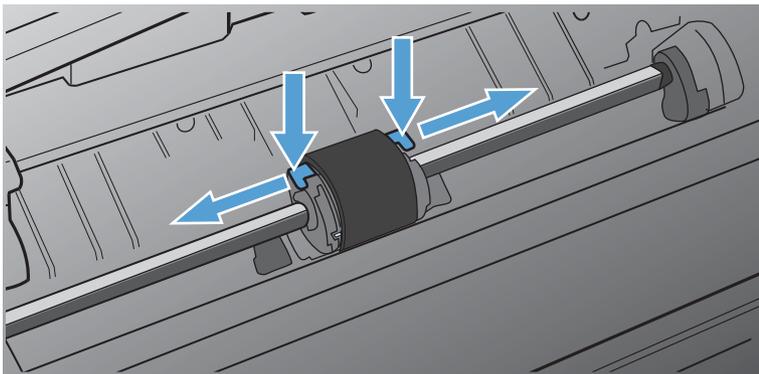
⚠ CAUTION: To prevent damage to the print cartridge, minimize its exposure to direct light. Cover the print cartridge with a sheet of paper.



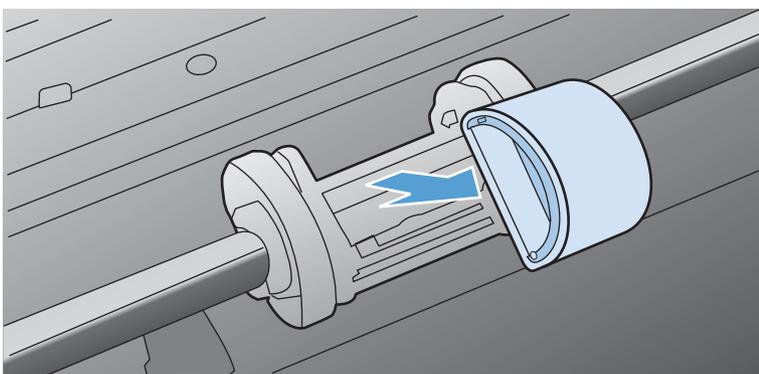
2. Find the pickup roller.



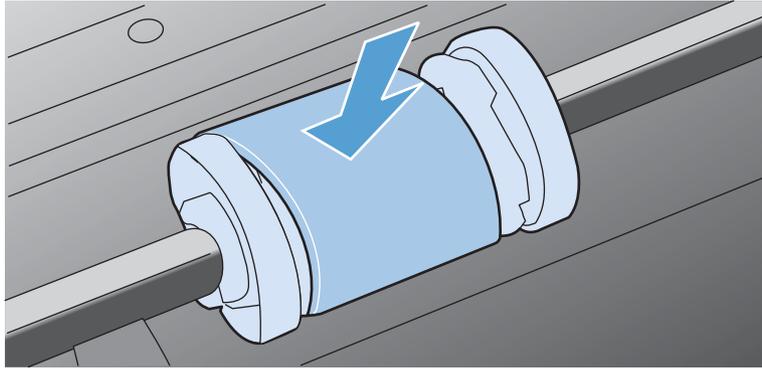
3. Release the small, white tabs on each side of the pickup roller, and rotate the pickup roller toward the front.



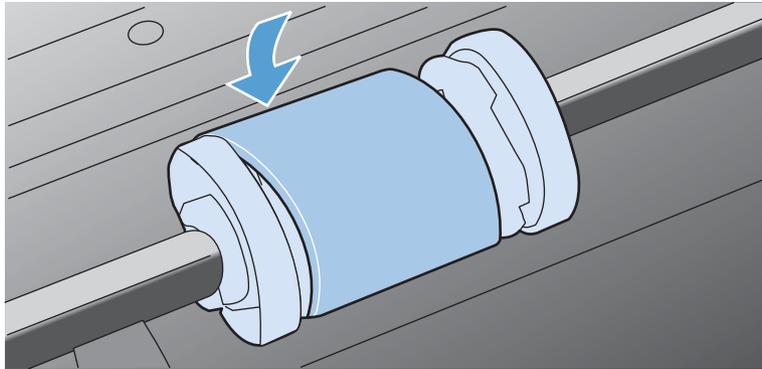
4. Gently pull the pickup roller up and out.



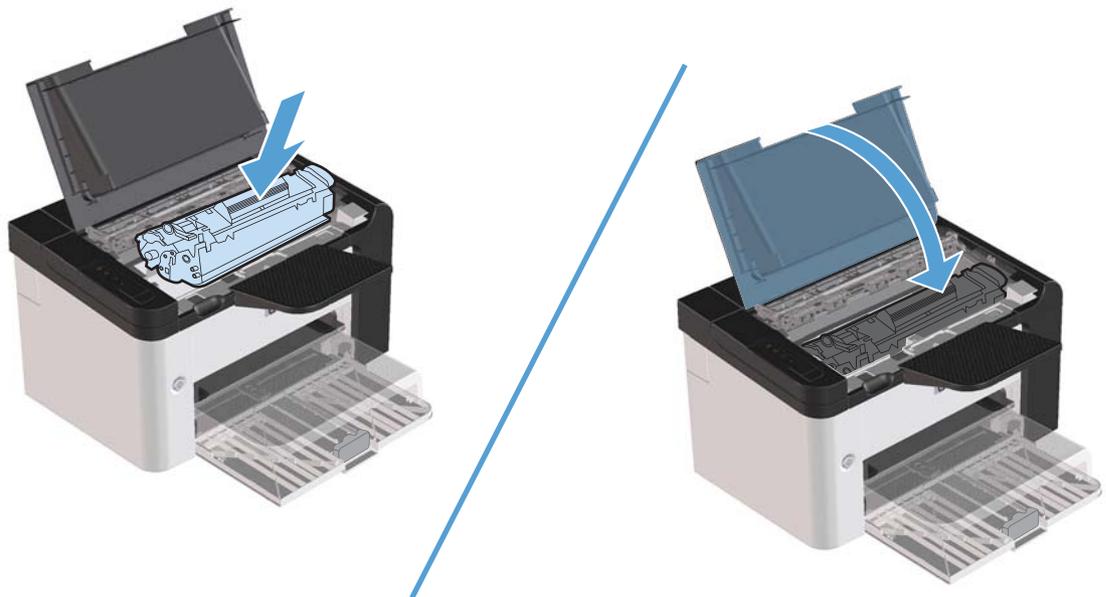
5. Position the new pickup roller in the slot. The circular and rectangular slots on each side prevents you from installing the roller incorrectly.



6. Rotate the top of the new pickup roller away from you until both sides snap into place.



7. Insert the print cartridge in the product and close the print-cartridge door.



Replace the separation pad

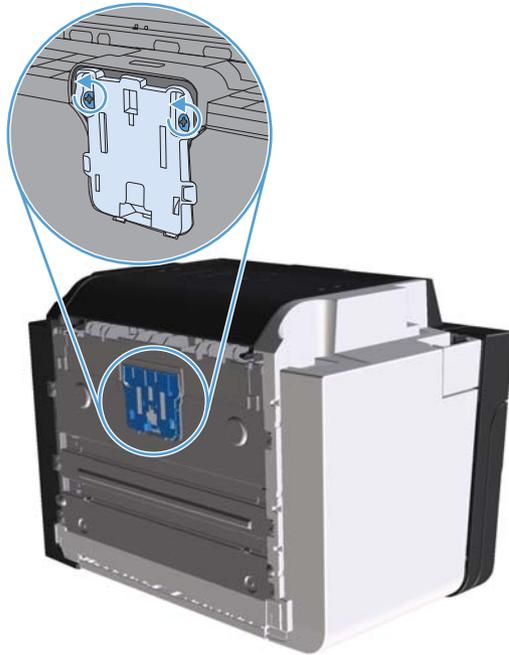
Normal use with good media causes wear. The use of poor media might require more frequent replacement of the separation pad.

If the product regularly pulls multiple sheets of media at a time, you might need to change the separation pad.

WARNING! Before changing the separation pad, use the power switch to turn the product off, and wait for the product to cool.

NOTE: Before you change the separation pad, clean the pickup roller. See [Clean the pickup roller on page 71](#).

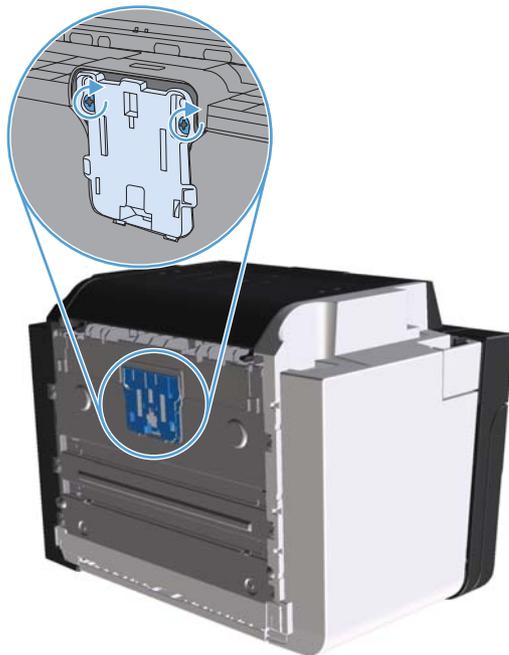
1. Remove the paper and close the main-input tray. Set the product on its front.
2. At the bottom of the product, unscrew the two screws holding the separation pad in place.



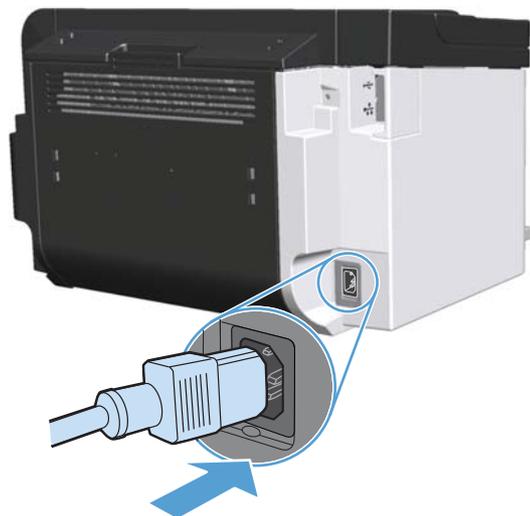
3. Remove the separation pad.



4. Insert the new separation pad, and screw it into place.



5. Plug the product into the wall outlet, and turn on the product.

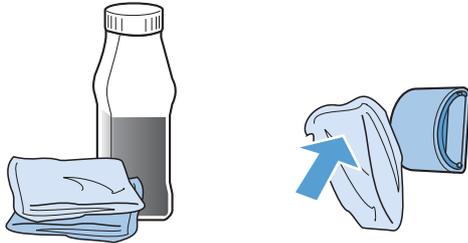


Clean the product

Clean the pickup roller

If you want to clean the pickup roller before deciding to replace it, follow these instructions:

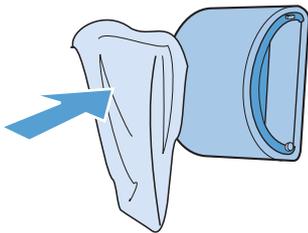
1. Unplug the power cord from the product, and then remove the pickup roller as described in [Replace the pickup roller on page 65](#).
2. Dab a lint-free cloth in isopropyl alcohol, and then scrub the roller.



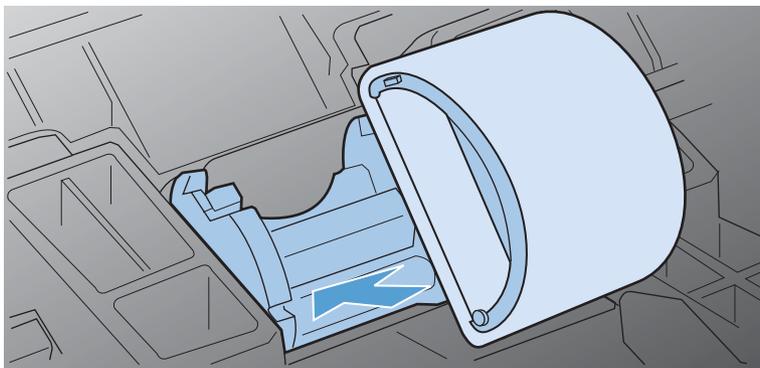
⚠ WARNING! Alcohol is flammable. Keep the alcohol and cloth away from an open flame. Before you close the product and plug in the power cord, allow the alcohol to dry completely.

📝 NOTE: In certain areas of California, air pollution control regulations restrict the use of liquid isopropyl alcohol (IPA) as a cleaning agent. In those areas of California, please disregard the previous recommendations and use a dry, lint-free cloth, moistened with water, to clean the pickup roller.

3. Use a dry, lint-free cloth, to wipe the pickup roller and remove loose dirt.



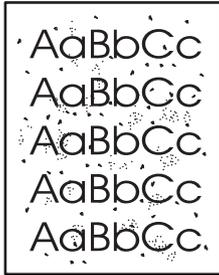
4. Allow the pickup roller to dry completely before you reinstall it in the product.



5. Plug the power cord into the product.

Clean the paper path

If you are experiencing toner specks or dots on the printouts, clean the paper path. This process uses a transparency to remove dust and toner from the paper path. Do not use bond or rough paper.



 **NOTE:** For best results use a sheet of transparency. If you do not have any transparencies, you can use copier-grade media (60 to 163 g/m² (16 to 43 lb)) that has a smooth surface.

1. Make sure that the product is idle and the ready light  is on.
2. Load media in the input tray.
3. Open the printer **Properties**.
4. Click the **Device Settings** tab.
5. In the **Cleaning Page** area, click the **Start** button to process the cleaning page.

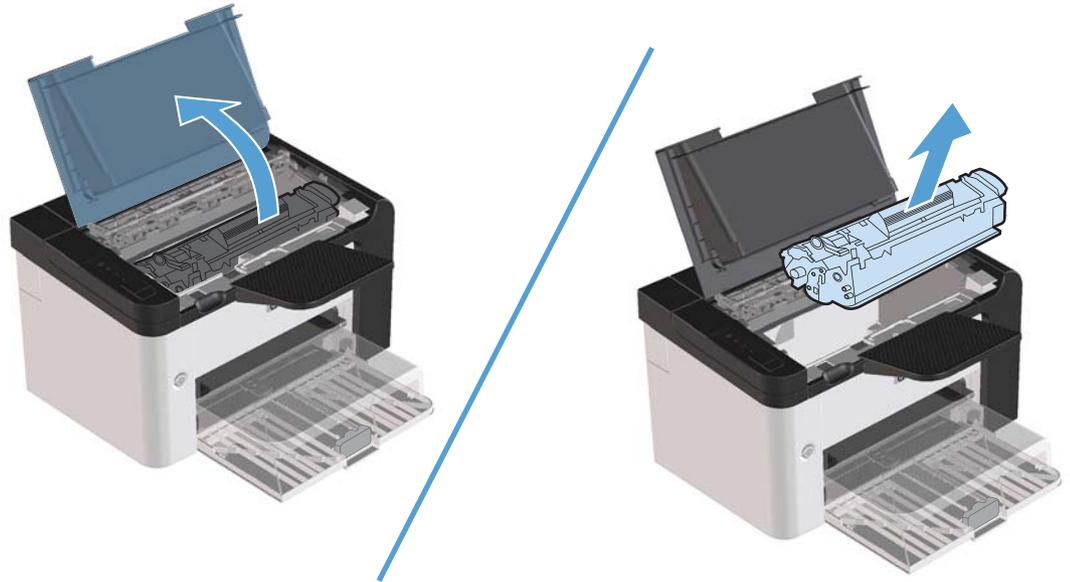
 **NOTE:** The cleaning process takes about 2 minutes. The cleaning page stops periodically during the cleaning process. Do not turn the product off until the cleaning process has finished. You might need to repeat the cleaning process several times to thoroughly clean the product.

Clean the print-cartridge area

You do not need to clean the print-cartridge area often. However, cleaning this area can improve the quality of the printed sheets.

⚠ WARNING! Before cleaning the product, turn the product off by unplugging the power cord, and wait for the product to cool.

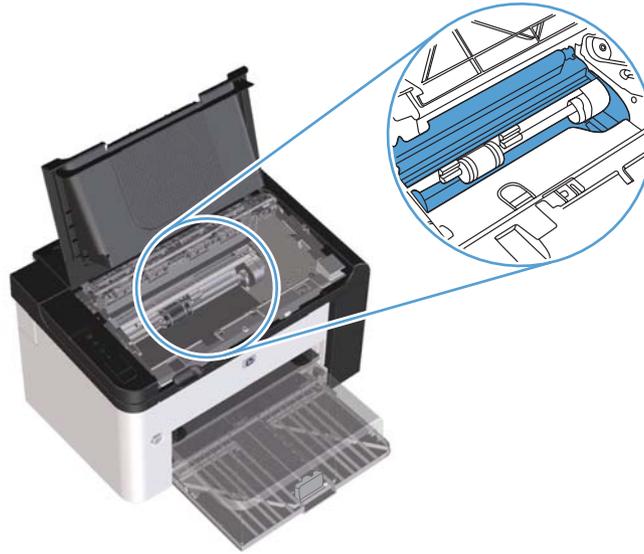
1. Unplug the power cord from the product. Open the print-cartridge door, and remove the print cartridge.



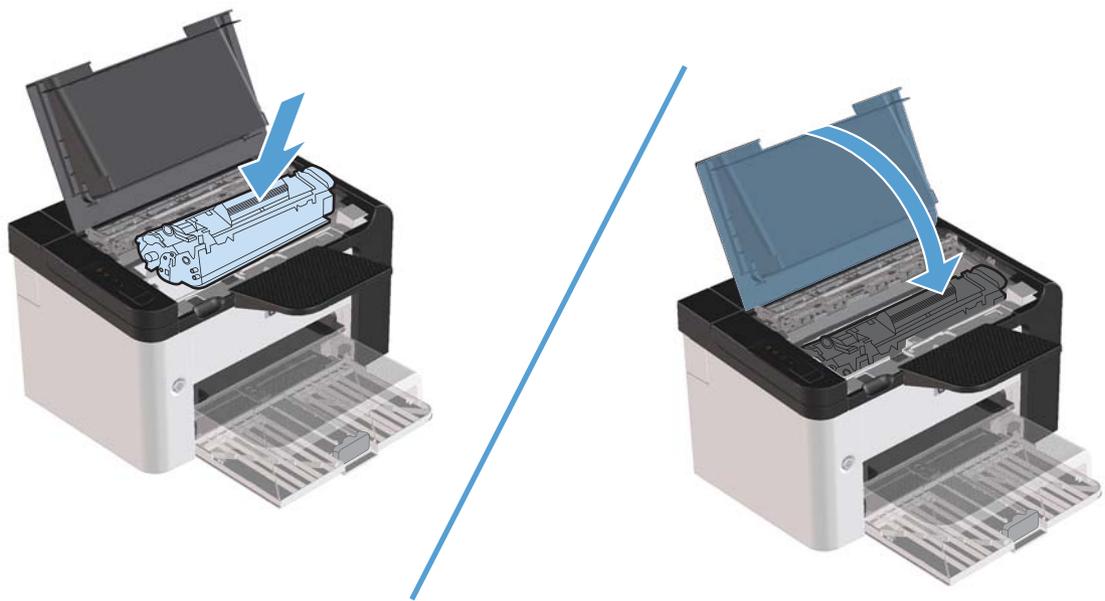
⚠ CAUTION: Do not touch the black-sponge transfer roller inside the product. Doing so can damage the product.

CAUTION: To prevent damage, do not expose the print cartridge to light for an extended time. Cover it with a piece of paper.

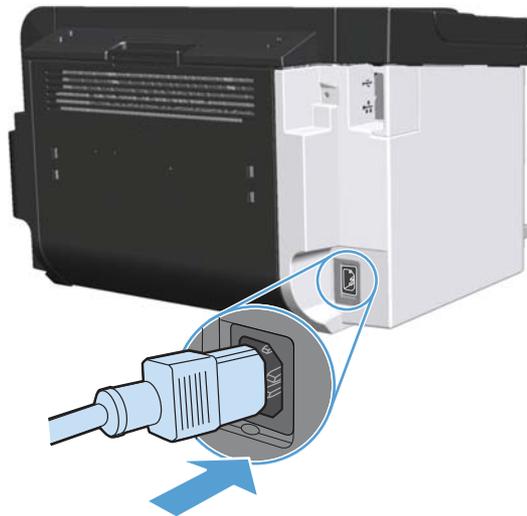
2. Use a dry, lint-free cloth, to wipe any residue from the paper-path area and the print-cartridge cavity.



3. Replace the print cartridge, and close the print-cartridge door.



4. Plug the power cord into the product.



Clean the exterior

Use a soft, damp, lint-free cloth to wipe dust, smudges, and stains off of the exterior of the device.

Product updates

Firmware updates

Firmware and software updates and installation instructions for this product are available at www.hp.com/support/ljp1560series or www.hp.com/support/ljp1600series. Click **Downloads and drivers**, click the operating system, and then select the download for the product.

8 Solve problems

- [Solve general problems](#)
- [Restore factory settings](#)
- [Interpret control-panel light patterns](#)
- [Clear jams](#)
- [Solve paper-handling problems](#)
- [Solve image-quality problems](#)
- [Solve performance problems](#)
- [Solve connectivity problems](#)
- [Solve product software problems](#)

Solve general problems

If the product is not responding correctly, complete the steps in the following checklist, in order. If the product does not pass a step, follow the corresponding troubleshooting suggestions. If a step resolves the problem, you can stop without performing the other steps on the checklist.

Troubleshooting checklist

1. Make sure that the product ready light  is on. If no lights are on, complete these steps:
 - a. Open and then close the print-cartridge door to deactivate the Auto-Off mode.
 - b. Check the power-cable connections.
 - c. Make sure that the power switch is on.
 - d. Make sure that the line voltage is correct for the product power configuration. (See the label that is on the back of the product for voltage requirements.) If you are using a power strip and its voltage is not within specifications, plug the product directly into the wall. If it is already plugged into the wall, try a different outlet.
 - e. Make sure that the print-cartridge is installed correctly.
 - f. If none of these measures restores power, contact HP Customer Care.
2. Check the cabling.
 - a. Check the cable connection between the product and the computer or network port. Make sure that the connection is secure.
 - b. Make sure that the cable itself is not faulty by using a different cable, if possible.
 - c. Check the network connection. See [Solve network problems on page 104](#).
3. Check to see if any control-panel lights are lit. See [Interpret control-panel light patterns on page 80](#).
4. Make sure that the paper that you are using meets specifications.
5. Make sure that the product software is installed correctly.
6. Verify that you have installed the printer driver for this product. Check the program to make sure that you are using the printer driver for this product.
7. Print a configuration page. See [Print information pages on page 54](#).
 - a. If the page does not print, check that at least one tray contains paper.
 - b. If the page jams in the product, see [Clear jams on page 85](#).

8. If the configuration page prints, check the following items.
 - a. If the page does not print correctly, the problem is with the product hardware. Contact HP Customer Care.
 - b. If the page prints correctly, the product hardware is working. The problem is with the computer that you are using, with the printer driver, or with the program.
9. Print a short document from a different program that has worked in the past. If this solution works, the problem is with the program you are using. If this solution does not work (the document does not print) complete these steps:
 - a. Try printing the job from another computer that has the product software installed.
 - b. If you connected the product to the network, connect the product directly to a computer with a USB cable. Redirect the product to the correct port, or reinstall the software, and then select the new connection type that you are using.
 - c. If the print quality is unacceptable, complete the following steps:
 - Verify that the print settings are correct for the media you are using. See [Change the print driver to match the media type and size on page 34](#).
 - Use the procedures in [Solve image-quality problems on page 96](#) to solve print-quality problems.

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 that you are using
- The USB connection
- The product I/O configuration
- The network operating system and configuration (if applicable)

Restore factory settings

To restore the product to the factory-default settings, follow these steps.

1. Turn the product off.
2. Turn the product on, and while it is initializing press and hold both control-panel buttons at the same time until all the lights blink in unison.

Interpret control-panel light patterns

Table 8-1 Status-light legend

| | |
|-----------------------------------------------------------------------------------|------------------------------------------|
|  | Symbol for “light off” ¹ |
|  | Symbol for “light on” ¹ |
|  | Symbol for “light blinking” ¹ |

¹ For a description of the control panel symbols and lights, see [Control-panel layout on page 8](#).

Table 8-2 Control-panel lights

| Light status | Light pattern | State of the product | Action |
|---------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------|-------------------------------------------------------------------------------|
| All lights are off NOTE: The power button backlight is off. |  | The product is in Auto-Off mode or is turned off. | Press the power button to deactivate the Auto-Off mode or turn on the product |

Table 8-2 Control-panel lights (continued)

| Light status | Light pattern | State of the product | Action |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>All lights are off</p> <p>NOTE: The power button backlight is on.</p> |  | <p>The formatter is not connected to the product correctly.</p> | <ol style="list-style-type: none"> 1. Turn off the product. 2. Wait 30 seconds, and then turn on the product. 3. Wait for the product to initialize. <p>Contact HP customer support. See Customer support on page 118.</p> |
| <p>Attention , ready , and go  lights cycle. Toner light  is off.</p> <p>NOTE: The power button backlight is on.</p> |  | <p>The formatter is initializing.</p> | <p>No action required. Wait for the initialization period to end. The product enters the Ready state when the initialization period is finished.</p> |
| <p>All lights cycle.</p> <p>NOTE: The power button backlight is on.</p> |  | <p>The product is processing a cleaning page.</p> | <p>No action required. Wait for the cleaning process to end. The product enters the Ready state when the cleaning process is finished.</p> |

Table 8-2 Control-panel lights (continued)

| Light status | Light pattern | State of the product | Action |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Ready light  is on, and all other lights are off.</p> <p>NOTE: The power button backlight is on.</p> |  | <p>The product is in the Ready state.</p> | <p>No action required. The product is ready to receive a print job.</p> |
| <p>Ready light  is blinking, and all other lights are off.</p> <p>NOTE: The power button backlight is on.</p> |  | <p>The product is receiving or processing data.</p> | <p>No action required. The product is receiving or processing a print job.</p> <p>To cancel the current job, press the cancel button .</p> |
| <p>Attention light  is blinking, and all other lights are off.</p> <p>NOTE: The power button backlight is on.</p> |  | <p>The product has experienced an error that can be corrected at the product, such as a jam, an open door, or the absence of paper in the proper tray.</p> | <p>Inspect the product, determine the error, and then correct the error. If the error is the absence of paper in the proper tray or the product is in a manual feed mode, put the proper paper in the tray and follow the onscreen instructions, or open and close the print-cartridge door to resume printing.</p> |

Table 8-2 Control-panel lights (continued)

| Light status | Light pattern | State of the product | Action |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Attention light  is blinking, ready light  is on, and other lights are off.</p> <p>NOTE: The power button backlight is on.</p> |  | <p>The product has experienced a continual error from which it will recover on its own.</p> | <p>To recover from the error and print the available data, press the go button .</p> <p>If the recovery is successful, the product continues to the processing data state and completes the job.</p> <p>If the recovery is unsuccessful, the product continues to the continuable error state. Try removing any media from the media path and turning the product power off, and then on again.</p> |
| <p>The attention , ready , and go  lights are on. Toner light  is off.</p> <p>NOTE: The power button backlight is on.</p> |  | <p>The product has experienced a fatal error from which it cannot recover.</p> | <ol style="list-style-type: none"> 1. Turn off the product. 2. Wait 30 seconds, and then turn on the product. 3. Wait for the product to initialize. <p>If the error persists, contact HP customer support. See Customer support on page 118.</p> |

Table 8-2 Control-panel lights (continued)

| Light status | Light pattern | State of the product | Action |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|---------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| <p>The ready  and toner  lights are on.</p> <p>NOTE: The power button backlight is on.</p> |  | <p>The print cartridge is near the estimated end of life.</p> | <p>Order a new print cartridge and have it ready. See Order parts, accessories, and supplies on page 112.</p> |
| <p>Toner light  is blinking.</p> <p>NOTE: The power button backlight is on.</p> |  | <p>The print cartridge has been removed from the product.</p> | <p>Reinsert the print cartridge in the product.</p> |

Clear jams

When clearing jams, be very careful not to tear jammed paper. If a small piece of paper remains in the product, it could cause additional jams.

⚠ CAUTION: Before clearing jams, turn the product off and disconnect the power cord.

Common causes of jams

- The input trays are loaded incorrectly or are too full.

📝 NOTE: When you add new media, always remove the media from the tray and straighten the entire stack. This helps prevent multiple feeds and reduces media jams.

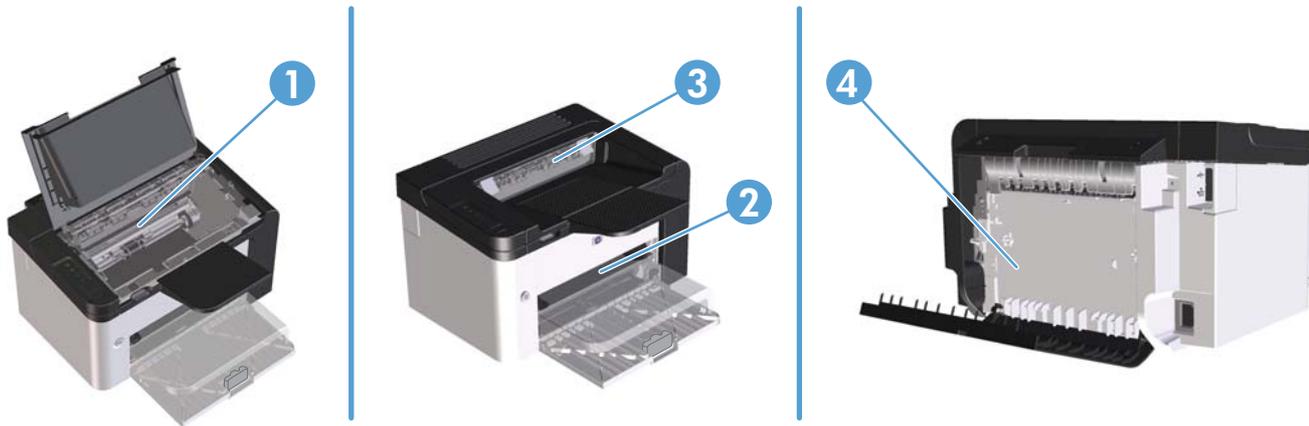
- The media does not meet HP-recommended specifications.
- The product needs to be cleaned to remove paper dust and other particles from the paper path.

Loose toner might remain in the product after a media jam. This toner clears up after a few sheets print.

⚠ CAUTION: If you get any toner on your clothes or hands, wash them in cold water. *Hot water will set the toner into the fabric.*

Jam locations

Jams can occur at the following locations in the product.



| | |
|---|------------------------------------------------------------------------|
| 1 | Internal areas |
| 2 | Input trays |
| 3 | Output bins |
| 4 | Rear door and duplexer (HP LaserJet Professional P1600 printer series) |

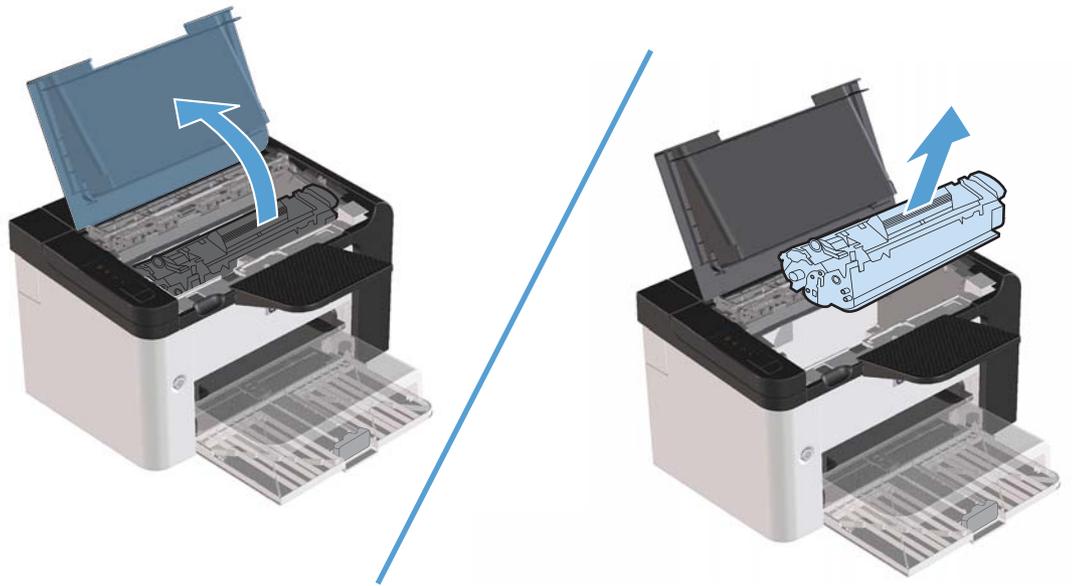
Clear jams from the input trays

CAUTION: Do not use sharp objects, such as tweezers or needle-nose pliers, to remove jams. Damage caused by sharp objects will not be covered by the warranty.

When removing jammed media, pull the jammed media straight away from the product. Pulling jammed media out of the product at an angle can damage the product.

NOTE: Depending on where the jam is located, some of the following steps might not be necessary.

1. Open the print-cartridge door, and then remove the print cartridge.



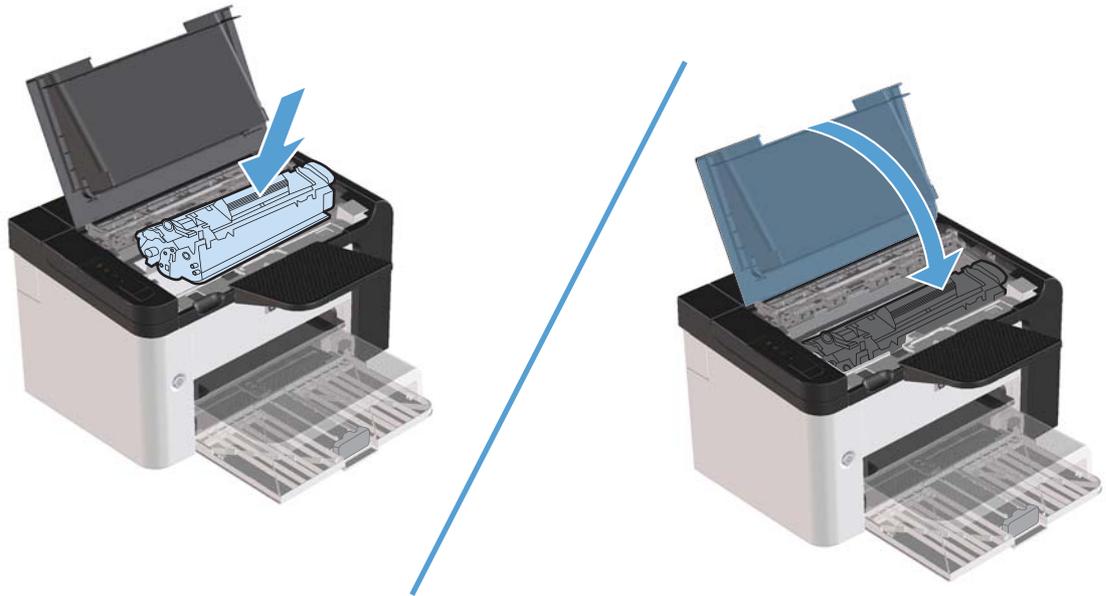
2. In the main-input tray or the priority input slot, remove the media stack.



3. With both hands, grasp the side of the jammed media that is most visible (this includes the middle), and carefully pull it free from the product.



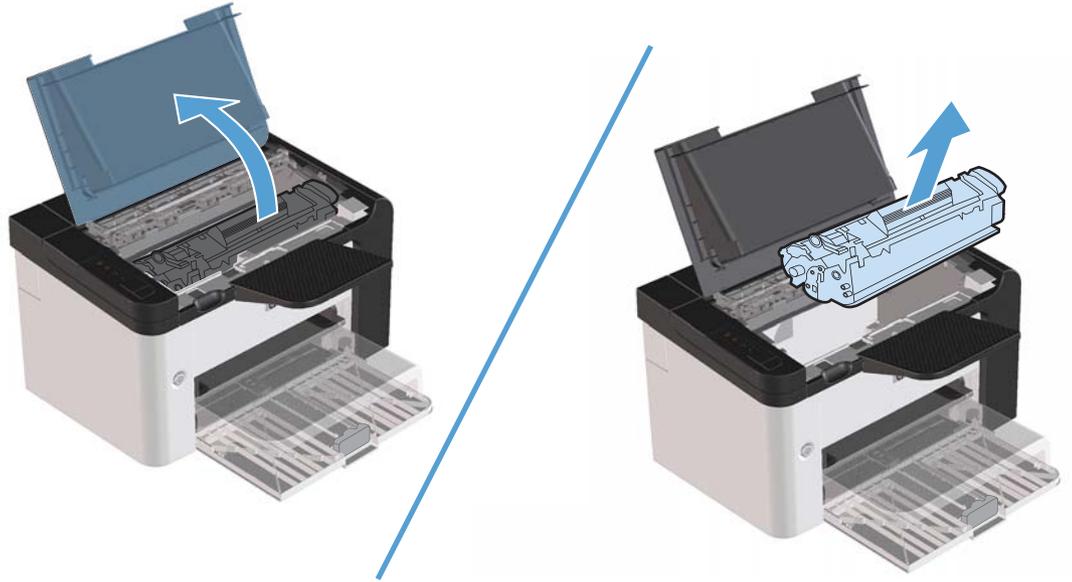
4. Reinstall the print cartridge and close the print-cartridge door.



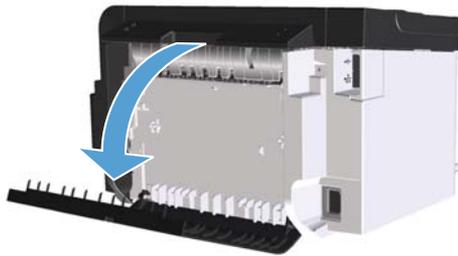
Clear jams from the duplexer

 **NOTE:** Only the HP LaserJet Professional P1600 printer series has an automatic duplexer.

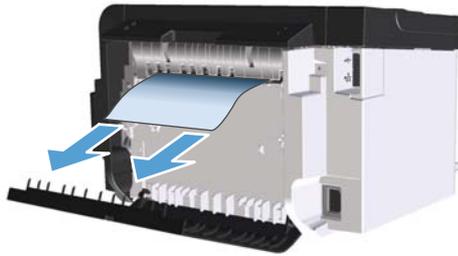
1. Open the print-cartridge door, and then remove the print cartridge.



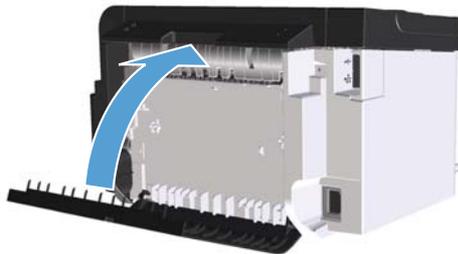
2. Open the rear door.



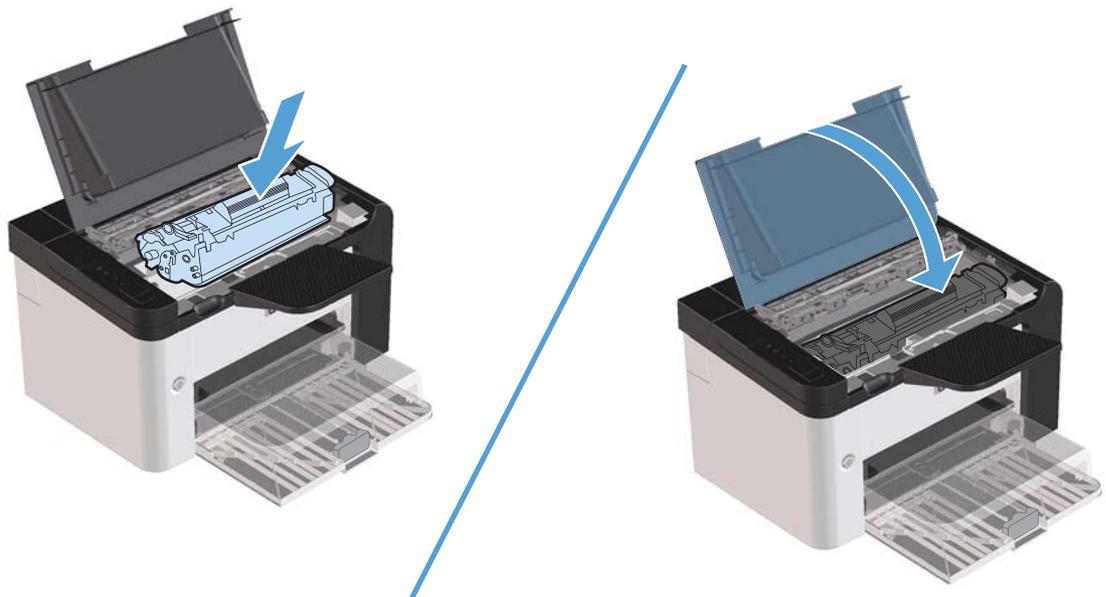
3. Carefully grasp the jammed paper, and slowly pull it out of the product



4. Close the rear door.



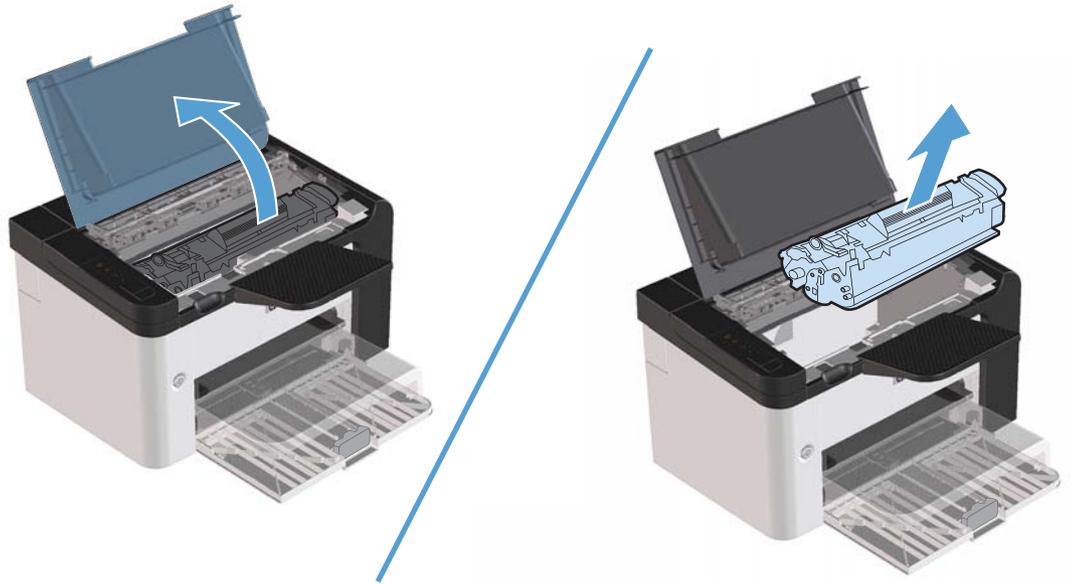
5. Reinstall the print cartridge and close the print-cartridge door.



Clear jams from the output areas

CAUTION: Do not use sharp objects, such as tweezers or needle-nose pliers, to remove jams. Damage caused by sharp objects will not be covered by the warranty.

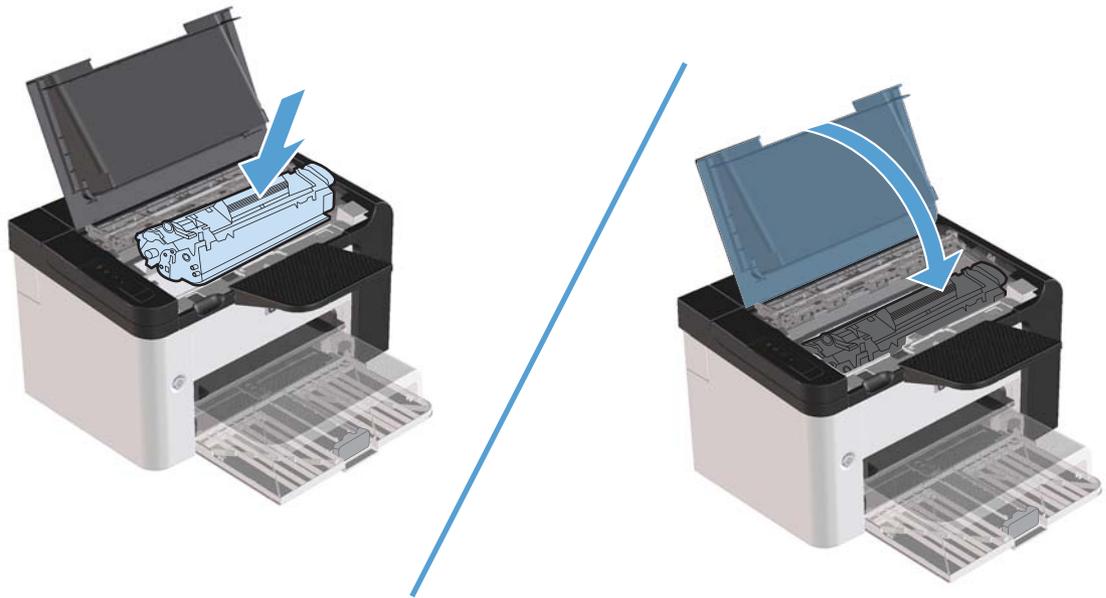
1. Open the print-cartridge door, and then remove the print cartridge.



2. Keep the print cartridge door open, and then with both hands, grasp the side of the jammed media that is most visible (this includes the middle), and carefully pull it free from the product.

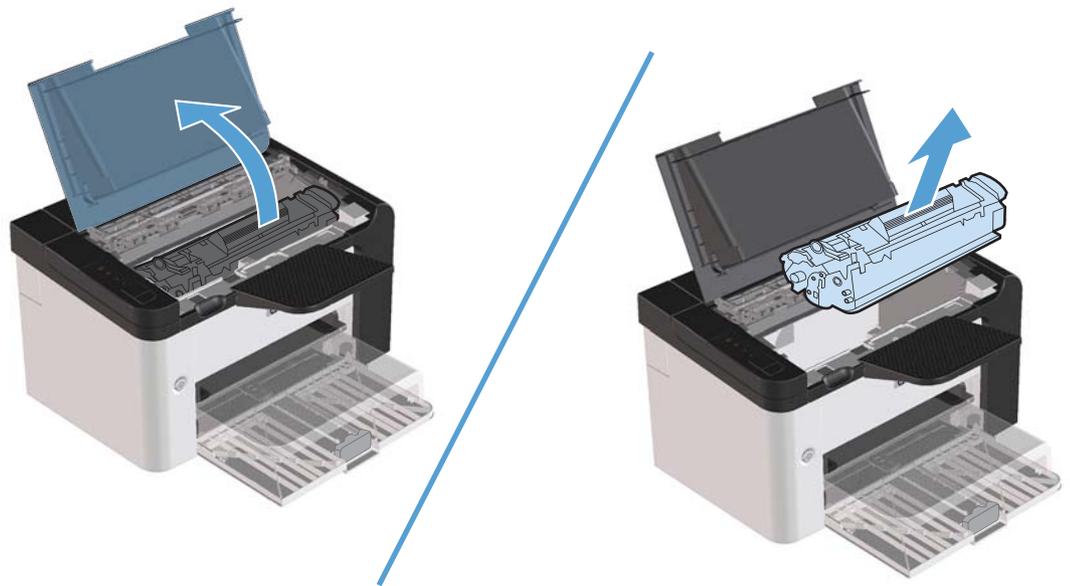


3. Reinstall the print cartridge, and then close the print-cartridge door.



Clear jams from inside the product

1. Open the print-cartridge door, and remove the print cartridge.



⚠ CAUTION: To prevent damage, do not expose the print cartridge to light. Cover it with a piece of paper.

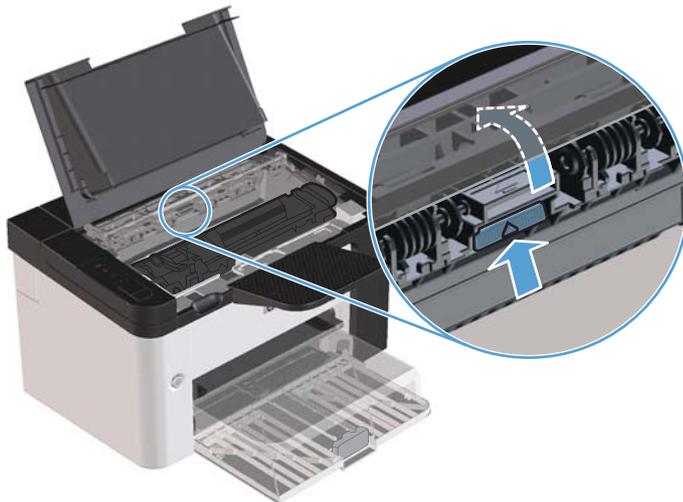
2. If you can see the jammed paper, carefully grasp the jammed paper, and slowly pull it out of the product.

 **NOTE:** If you can not see the jammed paper, go to the next step.

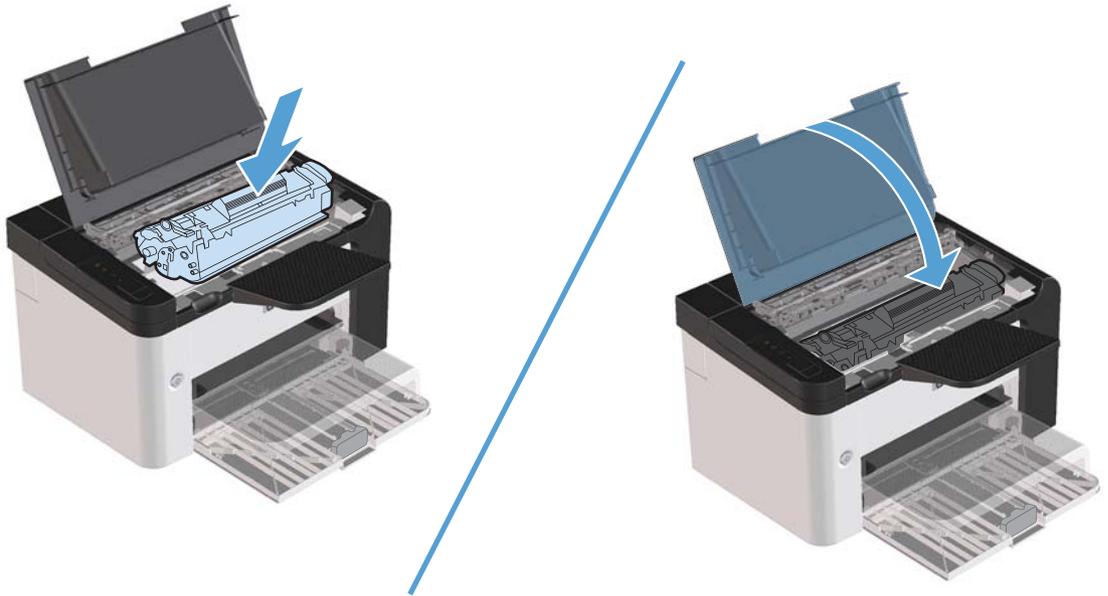
If you successfully removed the jammed paper, skip the next step.



3. Press the green tab and then open the jam-access door, carefully grasp the jammed paper and slowly pull it out of the product.



4. Reinstall the print cartridge, and then close the print-cartridge door.



Solve repeated jams

- Verify that the input tray is not overfilled. The input tray capacity varies depending on the type of print media that you are using.
- Verify that the media guides are properly adjusted.
- Check that the input tray is securely in place.
- Do not add print media into the input tray while the product is printing.
- Use only HP-recommended media types and sizes.
- Do not fan media prior to loading it in a tray. To loosen the ream, hold it firmly in both hands and twist the media by rotating your hands in the opposite direction.
- Do not let print media stack up in the output bin. The print media type and the amount of toner used affect the output bin capacity.
- Check the power connection. Make sure that the power cord is firmly connected to both the product and the power supply box. Plug the power cord into a grounded power outlet.

Change the jam recovery setting

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

1. Open the product Properties dialog box.
2. Click the **Device Settings** tab.
3. Click the **Auto** option or the **Off** option under **Jam Recovery**.

Solve paper-handling problems

The following problems with media cause print-quality deviations, jams, or damage to the product.

| Problem | Cause | Solution |
|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Poor print quality or toner adhesion | The paper is too moist, too rough, too heavy, too smooth, or it is embossed or from a faulty paper lot. | Try another kind of paper, between 100 and 250 Sheffield, with 4% to 6% moisture content. |
| Dropouts, jamming, or curl | The paper has been stored incorrectly. | Store paper flat in its moisture-proof wrapping. |
| | The paper has variability from one side to the other. | Turn the paper over. |
| Excessive curl | The paper is too moist, has the wrong grain direction, or is of short-grain construction | Use long-grain paper. |
| | The paper varies from side to side. | Turn the paper over. |
| Jamming, damage to product | The paper has cutouts or perforations. | Use paper that is free of cutouts or perforations. |
| Problems with feeding | The paper has ragged edges. | Use high-quality paper that is made for laser printers. |
| | The paper varies from side to side. | Turn the paper over. |
| | The paper is too moist, too rough, too heavy or too smooth, has the wrong grain direction, or is of short-grain construction or it is embossed or from a faulty paper lot. | Try another kind of paper, between 100 and 250 Sheffield, 4% to 6% moisture content. Use long-grain paper. |
| Print is skewed (crooked). | The media guides might be incorrectly adjusted. | Remove all media from the tray, straighten the stack, and then load the media in the tray again. Adjust the media guides to the width and length of the media that you are using and try printing again. |
| More than one sheet feeds at one time. | The tray might be overloaded. | Remove some of the media from the tray. |
| | The media might be wrinkled, folded, or damaged. | Verify that the media is not wrinkled, folded, or damaged. Try printing on media from a new or different package. |
| The product does not pull media from the tray. | The product might be in manual-feed mode. | Verify that the product is not in manual feed mode, and then print the job again. |
| | The pickup roller might be dirty or damaged. | Contact HP Customer Care. See Service and support on page 113 or the support flyer that came in the box. |
| | The paper-length adjustment control in the main-input tray is set at a length that is greater than the media size. | Set the paper-length adjustment control to the correct length. |

Solve image-quality problems

You can prevent most print-quality problems by following these guidelines.

- Use paper that meets HP specifications. See [Paper and print media on page 31](#).
- Clean the product as necessary. See [Clean the paper path on page 72](#).

Image defect examples

This section provides information about identifying and correcting print defects.

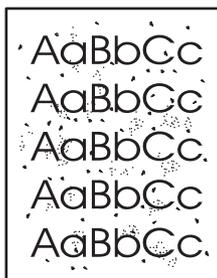
 **NOTE:** If these steps do not correct the problem, contact an HP-authorized dealer or service representative.

Light print or faded



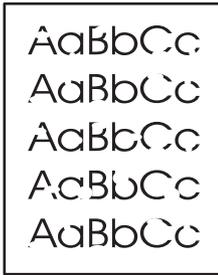
- The print cartridge is nearing end of life.
- Redistribute the toner to extend the life. See [Redistribute toner on page 61](#).
- The media might not meet Hewlett-Packard's media specifications (for example, the media is too moist or too rough).
- If the whole page is light, the print density adjustment is too light or EconoMode might be turned on. Adjust the print density, and disable EconoMode in the printer Properties.

Toner specks



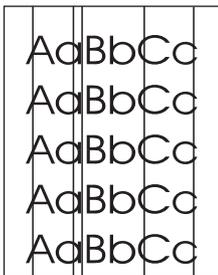
- The media might not meet Hewlett-Packard's media specifications (for example, the media is too moist or too rough).
- The product might need to be cleaned. See [Clean the product on page 71](#).
- The print cartridge might be defective. Install a new genuine HP print cartridge.

Dropouts



- A single sheet of media might be defective. Try reprinting the job.
- The media moisture content is uneven or the media has moist spots on its surface. Try printing with new media.
- The media lot is bad. The manufacturing processes can cause some areas to reject toner. Try a different type or brand of media.
- Place the product in quiet mode, and send the print job again. See [Quiet mode settings on page 59](#).
- The print cartridge might be defective. Install a new genuine HP print cartridge.

Vertical lines



The photosensitive drum inside the print cartridge has probably been scratched. Install a new genuine HP print cartridge.

Gray background



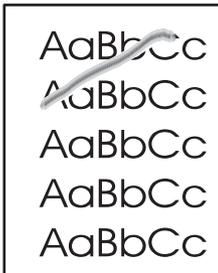
- Change the media to a lighter basis weight.
- Check the product's environment. Very dry (low humidity) conditions can increase the amount of background shading.
- The density setting might be too high. Adjust the density setting.
- Install a new genuine HP print cartridge.

Toner smear



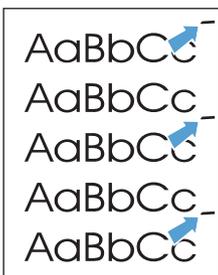
- If toner smears appear on the leading edge of the media, the media guides might be dirty. Wipe the media guides with a dry, lint-free cloth.
- Check the media type and quality.
- The fuser temperature might be too low. In your printer driver, make sure the appropriate media type is selected.
- Place the product in quiet mode, and send the print job again. See [Quiet mode settings on page 59](#).
- Install a new genuine HP print cartridge.

Loose toner



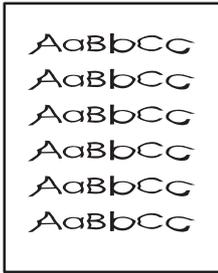
- The fuser temperature might be too low. In your printer driver, make sure the appropriate media type is selected.
- Clean the inside of the product.
- Check the media type and quality.
- Place the product in quiet mode, and send the print job again. See [Quiet mode settings on page 59](#).
- Plug the printer directly into an AC outlet instead of into a power strip.

Vertical repetitive defects



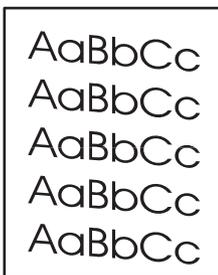
- The print cartridge might be damaged. If a repetitive mark occurs at the same spot on the page, install a new genuine HP print cartridge.
- The internal parts might have toner on them. If the defects occur on the back of the page, the problem will probably correct itself after a few more printed pages.
- In your printer driver, make sure the appropriate media type is selected.

Misformed characters



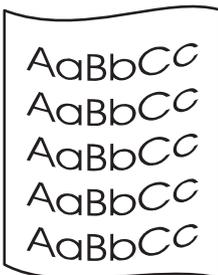
- If characters are improperly formed, producing hollow images, the media stock might be too slick. Try a different media.
- If characters are improperly formed, producing a wavy effect, the product might need service. Print a configuration page. If the characters are improperly formed, contact an HP-authorized dealer or service representative.

Page skew



- Make sure that the media is loaded correctly and the media guides are not too tight or too loose against the media stack.
- The input bin might be too full.
- Check the media type and quality.

Curl or wave



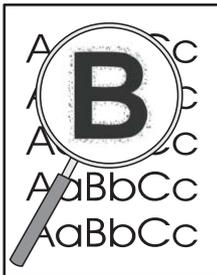
- Check the media type and quality. Both high temperature and high humidity cause media to curl.
- The media might have been in the input tray too long. Turn over the stack of media in the tray. Also, try rotating the media 180° in the input tray.
- Place the product in quiet mode, and send the print job again. See [Quiet mode settings on page 59](#).
- The fuser temperature might be too high. In your printer driver, make sure the appropriate media type is selected. If the problem persists, select a media type that uses a lower fuser temperature, such as transparencies or light media.

Wrinkles or creases



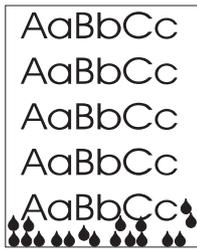
- Make sure that media is loaded properly.
- Check the media type and quality.
- Turn over the stack of media in the tray. Also, try rotating the media 180° in the input tray.
- Place the product in quiet mode, and send the print job again. See [Quiet mode settings on page 59](#).
- For envelopes, this can be caused by air pockets inside the envelope. Remove the envelope, flatten the envelope, and try printing again.

Toner scatter outline



- If large amounts of toner have scattered around the characters, the transfer of toner to the media is not optimal (a small amount of toner scatter is normal for laser printing). Try a different media type setting in the printer driver, or use a different media type.
- Turn over the stack of media in the tray.
- Use media that is designed for laser printers.
- Place the product in quiet mode, and send the print job again. See [Quiet mode settings on page 59](#).

Moisture



NOTE: This product dissipates heat by using convective cooling. The heat and moisture generated by the printing process escape through vents in the product exterior or through the output bin area.

Water droplets from the convective cooling process will not damage the product.

Verify normal product operation

The release of moisture is a result of normal product operation. However, HP recommends using the following steps to verify that the product is releasing steam and does not have a functional problem.

1. Turn the product off, and then on.
2. Send a print job to the product, and then verify that the product is operating correctly.
3. When printing a job and vapor is visible, immediately reprint the job using the same sheet of paper. There should be either no visible vapor, or much less vapor during the printing process.

Limit or reduce steam or vapor

- Make sure that the product is placed in a well-ventilated area that meets the environmental specifications in this guide. See [Environmental specifications on page 122](#).
- Do not place the product, or store paper, near an outside entrance where temperature changes can increase humidity.
- Use an unopened ream of paper that has not been exposed to high humidity.
- Store paper in an airtight container, where it will be less likely to absorb moisture.
- Place the product in quiet mode, and send the print job again. See [Quiet mode settings on page 59](#).

Optimize and improve image quality

Change print density

You can change the print density setting by from the printer properties dialog box.

1. **Windows XP, Windows Server 2008, and Windows Server 2003 (using the default Start menu view):** Click **Start**, and then click **Printers and Faxes**.

-or-

Windows XP, Windows Server 2008, and Windows Server 2003 (using the Classic Start menu view): Click **Start**, and then click **Printers**.

-or-

Windows Vista: Click **Start**, click **Control Panel**, and then in the category for **Hardware and Sound** click **Printer**.

2. In the list of printers, right-click the name of this product, and then click the **Properties** menu item to open the printer properties dialog box.
3. Click the **Device settings** tab, and then move the **Print Density** slider to the desired setting.
4. Click the **Apply** button to accept the setting, and then click the **OK** button to close the dialog box.

Solve 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 paper types can slow the print job. | Print on a different type of paper. |
| | Complex pages can print slowly. | Proper fusing may require a slower print speed to ensure the best print quality. |
| | Narrow or small media can print slowly. | |
| Pages did not print. | The product might not be pulling paper correctly. | Make sure paper is loaded in the tray correctly. |
| | The paper is jamming in the product. | Clear the jam. See Clear jams on page 85 . |
| | The USB cable might be defective or incorrectly connected. | <ul style="list-style-type: none">• 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. |

Solve connectivity problems

 **NOTE:** Restore the factory default settings for the product. See [Restore factory settings on page 79](#). If the problem persists, try the solutions in this section.

Solve direct-connect problems

If you have connected the product directly to a computer, check the cable.

- Verify that the cable is connected to the computer and to the product.
- Verify that the cable is not longer than 2 meters (6 feet). Replace the cable if necessary.
- Verify that the cable is working correctly by connecting it to another product. Replace the cable if necessary.

Solve network problems

 **NOTE:** Before performing the procedures in this section, restore the product factory-default settings. See [Restore factory settings on page 79](#).

Check the following items to verify that the product is communicating with the network. Before beginning, print a configuration page. See [Print information pages on page 54](#).

1. Are there any physical connection problems between the workstation or file server and the product?

Verify that the network cabling, connections, and router configurations are correct. Verify that the network cable lengths meet network specifications.

2. Are your network cables connected properly?

Make sure that the product is attached to the network using the appropriate port and cable. Check each cable connection to make sure it is secure and in the right place. If the problem continues, try a different cable or ports on the hub or transceiver. The amber activity light and the green link status light next to the port connection on the back of the product should be lit.

3. Are the link speed and duplex settings set correctly?

Hewlett-Packard recommends leaving this setting in automatic mode (the default setting).

4. Can you "ping" the product?

Use the command prompt to ping the product from your computer. For example:

```
ping 192.168.45.39
```

Ensure that the ping displays round-trip times.

If you are able to ping the product, verify that the IP address configuration for the product is correct on the computer. If it is correct, delete and then add the product again.

If the ping command failed, verify that the network hubs are on, and then verify that the network settings, the product, and the computer are all configured for the same network.

Verify that the ping command is successful for other devices on the network (if not, a firewall might be blocking the ping command).

Try opening the embedded Web server to verify that the computer is communicating with the product.

5. Have any software applications been added to the network?

Make sure they are compatible and that they are installed correctly with the correct printer drivers.

6. Are other users able to print?

The problem may be workstation-specific. Check the workstation network drivers, printer drivers, and redirection (capture in Novell NetWare).

7. If other users are able to print, are they using the same network operating system?

Check your system for proper network operating system setup.

8. Is your protocol enabled?

Check the status of your protocol on the configuration page. You can also use the embedded Web server to check the status of other protocols. See [Embedded Web server sections on page 56](#).

9. Does the product appear in HP Web Jetadmin or other management application?

- Verify network settings on the configuration page.
- Confirm the network settings for the product using the product control panel (for products with control panels).

Solve product software problems

Solve common Windows problems

Error message:

"General Protection FaultException OE"

"Spool32"

"Illegal Operation"

| Cause | Solution |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Close all software programs, restart Windows, and try again. |
| | Delete all temp files from the Temp subdirectory. Determine the name of the directory by opening the AUTOEXEC.BAT file and looking for the statement "Set Temp =". The name after this statement is the Temp directory. It is usually C:\TEMP by default, but can be redefined. |
| | See the Microsoft Windows documentation that came with the computer for more information about Windows error messages. |

Solve common Macintosh problems

Table 8-3 Problems in Mac OS X

The printer driver is not listed in the Printer Setup Utility or the Print & Fax list.

| Cause | Solution |
|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The product software might not have been installed or was installed incorrectly. | <p>Make sure that the product .GZ file is in the following hard-drive folder:</p> <ul style="list-style-type: none">• Mac OS X v10.4: Library/Printers/PPDs/Contents/Resources/<lang>.lproj, where <lang> is the two-letter language code for the language that you are using.• Mac OS X v10.5 and v10.6: Library/Printers/PPDs/Contents/Resources <p>If necessary, reinstall the software. See the getting started guide for instructions.</p> |
| The Postscript Printer Description (PPD) file is corrupt. | <p>Delete the .GZ file from the following hard-drive folder:</p> <ul style="list-style-type: none">• Mac OS X v10.4: Library/Printers/PPDs/Contents/Resources/<lang>.lproj, where <lang> is the two-letter language code for the language that you are using.• Mac OS X v10.5 and v10.6: Library/Printers/PPDs/Contents/Resources <p>Reinstall the software. See the getting started guide for instructions.</p> |

The product name does not appear in the product list in the Printer Setup Utility or Print & Fax list.

| 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. |
| The wrong product name is being used. | Print a configuration page to check the product name. Verify that the name on the configuration page matches the product name in the Printer Setup Utility or the Print & Fax list. |
| The interface cable might be defective or of poor quality. | Replace the cable with a high-quality cable. |

The printer driver does not automatically set up the selected product in the Printer Setup Utility or the Print & Fax list.

| 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. |

Table 8-3 Problems in Mac OS X (continued)

The printer driver does not automatically set up the selected product in the Printer Setup Utility or the Print & Fax list.

| Cause | Solution |
|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The product software might not have been installed or was installed incorrectly. | Make sure that the product PPD is in the following hard-drive folder: <ul style="list-style-type: none">• Mac OS X v10.4: Library/Printers/PPDs/Contents/Resources/<lang>.lproj, where <lang> is the two-letter language code for the language that you are using.• Mac OS X v10.5 and v10.6: Library/Printers/PPDs/Contents/Resources If necessary, reinstall the software. See the getting started guide for instructions. |
| The Postscript Printer Description (PPD) file is corrupt. | Delete the .GZ file from the following hard-drive folder: <ul style="list-style-type: none">• Mac OS X v10.4: Library/Printers/PPDs/Contents/Resources/<lang>.lproj, where <lang> is the two-letter language code for the language that you are using.• Mac OS X v10.5 and v10.6: Library/Printers/PPDs/Contents/Resources 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 is being used. Another product with the same or similar name might have received your print job. | Print a configuration page to check the product name. Verify that the name on the configuration page matches the product name in the Printer Setup Utility or Print & Fax list. |

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

| Cause | Solution |
|------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| This error occurs when the software for USB products 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 Printer Setup Utility or Print & Fax list after the driver is selected.

| Cause | Solution |
|----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| This problem is caused by either a software or a hardware component. | <p data-bbox="815 296 1449 331">Software troubleshooting</p> <ul data-bbox="815 359 1449 554" style="list-style-type: none"><li data-bbox="815 359 1449 394">• Check that your Macintosh supports USB.<li data-bbox="815 415 1449 472">• Verify that your Macintosh operating system is Mac OS X v10.4 or later.<li data-bbox="815 493 1449 554">• Ensure that your Macintosh has the appropriate USB software from Apple. <p data-bbox="815 575 1449 611">Hardware troubleshooting</p> <ul data-bbox="815 632 1449 1079" style="list-style-type: none"><li data-bbox="815 632 1449 667">• Check that the product is turned on.<li data-bbox="815 688 1449 724">• Verify that the USB cable is connected correctly.<li data-bbox="815 745 1449 802">• Check that you are using the appropriate high-speed USB cable.<li data-bbox="815 823 1449 942">• 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.<li data-bbox="815 963 1449 1079">• Check to see if more than two non-powered USB hubs are connected in a row on the chain. Disconnect all of the devices from the chain, and then connect the cable directly to the USB port on the host computer. <p data-bbox="863 1100 1449 1136">NOTE: The iMac keyboard is a non-powered USB hub.</p> |

A Supplies and accessories

- [Order parts, accessories, and supplies](#)
- [Part numbers](#)

Order parts, accessories, and supplies

| | |
|--------------------------------------------|------------------------------------------------------------------------|
| Order supplies and paper | www.hp.com/go/suresupply |
| Order genuine HP parts or accessories | www.hp.com/buy/parts |
| Order through service or support providers | Contact an HP-authorized service or support provider. |
| Order using HP software | Embedded Web server sections on page 56 |

Part numbers

The following list of accessories was current at the time of printing. Ordering information and availability of the accessories might change during the life of the product.

Paper-handling accessories

| Item | Description | Part number |
|-------------------------|------------------------------------|----------------|
| Pickup roller | Pickup roller for main-input tray | RL1-1497-000CN |
| Separation pad assembly | Separation pad for main-input tray | RM1-4227-000CN |

Print cartridges

| Item | Description | Part number |
|-----------------------------|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| HP LaserJet print cartridge | Standard-black print cartridge | See one the following items to determine the print cartridge part number. <ul style="list-style-type: none">• The print cartridge• The supplies status page• The help navigation page• On the embedded Web server page Information tab, click the Supplies Status link, or the Supplies Detail button• Go to www.hp.com/post-embed/ordersupplies-na |

Cables and interfaces

| Item | Description | Part number |
|-----------|----------------------|-------------|
| USB cable | 2-meter A-to-B cable | 8121-0868 |

B Service and support

- [Hewlett-Packard limited warranty statement](#)
- [HP's Premium Protection Warranty: LaserJet print cartridge limited warranty statement](#)
- [End User License Agreement](#)
- [Customer self-repair warranty service](#)
- [Customer support](#)
- [Repack the product](#)

Hewlett-Packard limited warranty statement

| HP PRODUCT | DURATION OF LIMITED WARRANTY |
|-----------------------------------------|--------------------------------|
| HP LaserJet Professional P1566, P1606dn | One year from date of purchase |

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.

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HP's Premium Protection Warranty: LaserJet 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.

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Rev. 11/06

Customer self-repair warranty service

HP products are designed with many Customer Self Repair (CSR) parts to minimize repair time and allow for greater flexibility in performing defective parts replacement. If during the diagnosis period, HP identifies that the repair can be accomplished by the use of a CSR part, HP will ship that part directly to you for replacement. There are two categories of CSR parts: 1) Parts for which customer self repair is mandatory. If you request HP to replace these parts, you will be charged for the travel and labor costs of this service. 2) Parts for which customer self repair is optional. These parts are also designed for Customer Self Repair. If, however, you require that HP replace them for you, this may be done at no additional charge under the type of warranty service designated for your product.

Based on availability and where geography permits, CSR parts will be shipped for next business day delivery. Same-day or four-hour delivery may be offered at an additional charge where geography permits. If assistance is required, you can call the HP Technical Support Center and a technician will help you over the phone. HP specifies in the materials shipped with a replacement CSR part whether a defective part must be returned to HP. In cases where it is required to return the defective part to HP, you must ship the defective part back to HP within a defined period of time, normally five (5) business days. The defective part must be returned with the associated documentation in the provided shipping material. Failure to return the defective part may result in HP billing you for the replacement. With a customer self repair, HP will pay all shipping and part return costs and determine the courier/carrier to be used.

Customer support

| | |
|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Get telephone support for your country/region | Country/region phone numbers are on the flyer that was in the box with your product or at www.hp.com/support/ . |
| Have the product name, serial number, date of purchase, and problem description ready. | |
| Get 24-hour Internet support | www.hp.com/support/ljp1560series or www.hp.com/support/ljp1600series |
| Get support for products used with a Macintosh computer | www.hp.com/go/macosex |
| Download software utilities, drivers, and electronic information | www.hp.com/go/ljp1560series or www.hp.com/go/ljp1600series |
| Order additional HP service or maintenance agreements | www.hp.com/go/carepack |

Repack the product

If HP Customer Care determines that your product needs to be returned to HP for repair, follow these steps to repack the product before shipping it.

⚠ CAUTION: Shipping damage as a result of inadequate packing is the customer's responsibility.

1. Remove and retain the print cartridge.

⚠ CAUTION: It is *extremely important* to remove the print cartridge before shipping the product. A print cartridge that remains in the product during shipping can leak and cover the product engine and other parts with toner.

To prevent damage to the print cartridge, avoid touching the roller on it, and store the print cartridge in its original packing material or so that it is not exposed to light.

2. Remove and retain the power cable, interface cable, and optional accessories, such as an EIO card.
3. If possible, include print samples and 50 to 100 sheets of paper or other print media that did not print correctly.
4. In the U.S., call HP Customer Care to request new packing material. In other areas, use the original packing material, if possible. Hewlett-Packard recommends insuring the equipment for shipment.

C Specifications

- [Physical specifications](#)
- [Power consumption, electrical specifications, and acoustic emissions](#)
- [Environmental specifications](#)

Physical specifications

Table C-1 Physical specifications¹

| Specification | HP LaserJet Professional P1560 printer series | HP LaserJet Professional P1600 printer series |
|-----------------------|-----------------------------------------------|-----------------------------------------------|
| Product weight | 5.9 kg (13.0 lb) | 6.5 kg (14.3 lb) |
| Product height | 245 mm (9.65 in) | 245 mm (9.65 in) |
| Product depth minimum | 239 mm (9.41 in) | 280 mm (11.02 in) |
| Product depth maximum | 369 mm (14.53 in) | 410 mm (16.14 in) |
| Product width | 382 mm (15.04 in) | 382 mm (15.04 in) |

¹ Values are based on preliminary data. See www.hp.com/support/ljp1560series or www.hp.com/support/ljp1600series.

Power consumption, electrical specifications, and acoustic emissions

See www.hp.com/go/ljp1560_regulatory or www.hp.com/go/ljp1600_regulatory for current information.

Environmental specifications

Table C-2 Environmental specifications

| | Operating ¹ | Storage ¹ |
|-------------------|-------------------------------|-----------------------------|
| Temperature | 15° to 32.5°C (59° to 90.5°F) | -20° to 40°C (-4° to 104°F) |
| Relative Humidity | 10% to 80% | 10% to 90% |

¹ Values are based on preliminary data. See www.hp.com/support/ljp1560series or www.hp.com/support/ljp1600series.

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 (O₃).

Power consumption

Power usage drops significantly while in Ready or Auto-Off mode, which saves natural resources and saves money without affecting the high performance of this product. Hewlett-Packard printing and imaging equipment marked with the ENERGY STAR® logo is qualified to the U.S. Environmental Protection Agency's ENERGY STAR specifications for imaging equipment. The following mark will appear on ENERGY STAR qualified imaging products:



Additional ENERGY STAR qualified imaging product model information is listed at:

www.hp.com/go/energystar

Toner consumption

EconoMode uses less toner, which might extend the life of the print cartridge.

Paper use

This product's manual/automatic 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 HP LaserJet print cartridges after use—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 (more than one cartridge)

1. Package each HP LaserJet print cartridge in its original box and bag.
2. Tape the boxes together using strapping or packaging tape. The package can weigh up to 31 kg (70 lb).
3. Use a single pre-paid shipping label.

OR

1. Use your own suitable box, or request a free bulk collection box from www.hp.com/recycle or 1-800-340-2445 (holds up to 31 kg (70 lb) of 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 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 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.

Residents of Alaska and Hawaii

Do not use the UPS label. Call 1-800-340-2445 for information and instructions. The U.S. Postal Service provides no-cost cartridge return transportation services under an arrangement with HP for Alaska and Hawaii.

Non-U.S. 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 product supply item) or visit 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.

Chemical substances

HP is committed to providing our customers with information about the chemical substances in our products as needed to comply with legal requirements such as REACH (Regulation EC No 1907/2006 of the European Parliament and the Council). A chemical information report for this product can be found at: www.hp.com/go/reach.

Material Safety Data Sheet (MSDS)

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

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

according to ISO/IEC 17050-1 and EN 17050-1; DoC#: BOISB-0902-00-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 LaserJet Professional P1566/P1606 printer series
Regulatory Model:²⁾ BOISB-0902-00
Product Options: All
Toner Cartridges: CE278A

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 +A1:2005 / EN55022:2006 +A1:2007 - Class B¹⁾
EN 61000-3-2:2006
EN 61000-3-3:1995 +A1 +A2
EN 55024:1998 +A1 +A2
FCC Title 47 CFR, Part 15 Class B / ICES-003, Issue 4
GB9254-1998, GB17625.1-2003

Supplementary Information:

The product herewith complies with the requirements of the EMC Directive 2004/108/EC 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

March 2010

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, D-71034 Böblingen, Germany, (FAX: +49-7031-14-3143), <http://www.hp.com/go/certificates>

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 instructions

Make sure your power source is adequate for the product voltage rating. The voltage rating is on the product label. The product uses either 110-127 Vac or 220-240 Vac and 50/60 Hz.

Connect the power cord between the product and a grounded AC outlet.

⚠ CAUTION: To prevent damage to the product, use only the power cord that is provided with the product.

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。

EMC statement (Korea)

| | |
|-----------------------|------------------------------------------------------------------------------|
| B급 기기 (가정용 방송통신기기) | 이 기기는 가정용(B급)으로 전자파적합등록을 한 기기로서 주로 가정에서 사용하는 것을 목적으로 하며, 모든 지역에서 사용할 수 있습니다. |
|-----------------------|------------------------------------------------------------------------------|

Laser statement for Finland

Luokan 1 laserlaite

Klass 1 Laser Apparat

HP LaserJet Professional P1566, P1606dn, laserkirjoitin on käyttäjän kannalta turvallinen luokan 1 laserlaite. Normaalisessa käytössä kirjoittimen suojakotelo estää lasersäteiden 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 LaserJet Professional P1566, P1606dn - 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 näkymättömälle lasersäteilylle 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 laseriodin säteilyominaisuuksista: Aallonpituus 775-795 nm Teho 5 m W Luokan 3B laser.

GS statement (Germany)

Das Gerät ist nicht für die Benutzung im unmittelbaren Gesichtsfeld am Bildschirmarbeitsplatz vorgesehen. Um störende Reflexionen am Bildschirmarbeitsplatz zu vermeiden, darf dieses Produkt nicht im unmittelbaren Gesichtsfeld platziert werden.

Substances Table (China)

有毒有害物质表

根据中国电子信息产品污染控制管理办法的要求而出台

| 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 | 0 | X | 0 | 0 | 0 |
| 控制面板 | 0 | 0 | 0 | 0 | 0 | 0 |
| 塑料外壳 | 0 | 0 | 0 | 0 | 0 | 0 |
| 格式化板组件 | X | 0 | 0 | 0 | 0 | 0 |
| 碳粉盒 | X | 0 | 0 | 0 | 0 | 0 |
| | | | | | | |

3685

0 : 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。

注 : 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。

Restriction on Hazardous Substances statement (Turkey)

Türkiye Cumhuriyeti: EEE Yönetmeliğine Uygundur

Index

A

- accessories
 - ordering 111, 112
 - part numbers 112
- acoustic specifications 122
- address, printer
 - Macintosh, troubleshooting 107
- altitude specifications 122
- antcounterfeit supplies 60

B

- batteries included 127
- bin, output
 - jams, clearing 90
- bins, output
 - capacity 38
 - features 4
- blank pages
 - troubleshooting 103

C

- cables
 - USB, troubleshooting 103
- Canadian DOC regulations 130
- canceling
 - printing 42
- canceling a print request 42
- cartridges
 - non-HP 60
 - part numbers 112
 - recycling 60, 125
 - storage 60
 - warranty 115
- cautions iii
- change
 - pickup roller 65
 - separation pad 68

- clean
 - pickup roller 71
- cleaning
 - exterior 75
 - media path 72
 - product 71
- clearing jams
 - locations 85
- configuration page 54
- connecting to the network 28
- control panel
 - settings 12, 19
 - status-light patterns 80
- conventions, document iii
- counterfeit supplies 60
- cover pages 21, 44
- crooked pages 95
- custom-size paper settings
 - Macintosh 21
- customer support
 - online 118
 - repacking product 119

D

- declaration of conformity 129
- default settings, restore 79
- demo page 54
- disposal, end-of-life 127
- document conventions iii
- dots per inch (dpi)
 - specifications 4
- double-sided printing
 - Macintosh 23
 - See also duplex printing
- dpi (dots per inch)
 - specifications 4
- drivers
 - Macintosh settings 21

- Macintosh, troubleshooting 107
- paper types 37
- presets (Macintosh) 21
- quick sets (Windows) 44
- settings 12, 13, 19
- universal 11
- Windows, opening 43
- duplex printing
 - Macintosh 23
 - See also double-sided printing

E

- EconoMode setting 57
- electrical specifications 122
- embedded Web server
 - configuration page 56
 - Information tab 56
 - Networking tab 56
 - order supplies 56
 - product status 56
 - product support 56
 - Settings tab 56
 - supplies status 56
 - using 55
- end-of-life disposal 127
- environment specifications 122
- environmental features 3
- environmental stewardship program 125
- ePrint
 - AirPrint 51
 - HP Cloud Print 50
- errors
 - software 106
- European Union, waste disposal 127
- EWS. See embedded Web server

- F**
- feeding problems, solving 95
- Finnish laser safety statement 132
- firmware updates 76
- first page
 - use different paper 21
- fraud hotline 60
- G**
- General Protection FaultException OE 106
- H**
- AirPrint 51
- HP Cloud Print 50
- HP Customer Care 118
- HP fraud hotline 60
- HP Universal Print Driver 11
- HP Web Jetadmin 15
- humidity specifications 122
- I**
- Illegal Operation errors 106
- image quality
 - problem-solving 96
- improve print quality 96
- information pages
 - configuration page 54
 - demo page 54
 - supplies status page 54
- Information tab (embedded Web server) 56
- input tray
 - loading priority feed slot 39
- input trays
 - features 4
- interface ports
 - types included 4
- IP address
 - Macintosh, troubleshooting 107
 - manual configuration 30
- J**
- jams
 - common causes of 85
 - locations 85
 - output-bin, clearing 90
 - preventing 94
 - trays, clearing 86
- Japanese VCCI statement 130
- Jetadmin, HP Web 15
- K**
- Korean EMC statement 131
- L**
- laser safety statements 130, 132
- license, software 116
- light patterns 80
- link speed settings 30
- loading media
 - priority input slot 39
- M**
- Macintosh
 - driver settings 19, 21
 - drivers, troubleshooting 107
 - problems, troubleshooting 107
 - removing software 18
 - resize documents 21
 - support 118
 - supported operating systems 18
 - USB card, troubleshooting 108
- Macintosh driver settings
 - custom-size paper 21
- main-input tray
 - capacity 38
- managing network 29
- material restrictions 127
- Material Safety Data Sheet (MSDS) 127
- media
 - custom-size, Macintosh settings 21
 - first page 21
 - pages per sheet 22
 - select size and type 34
 - supported sizes 35
- media path, cleaning 72
- mercury-free product 127
- model number 7
- multiple pages per sheet 22
- N**
- n-up printing 22
- network
 - IP address configuration 30
 - link speed settings 30
 - operating systems supported 26
 - password, changing 30
 - password, setting 30
 - settings, changing 29
 - settings, viewing 29
- network connections 28
- Networking tab (embedded Web server) 56
- non-HP supplies 60
- notes iii
- O**
- online support 118
- operating environment
 - specifications 122
- operating systems supported 18
- operating systems Windows, supported 10
- operating systems, networks 26
- ordering
 - part numbers for 112
 - supplies and accessories 112
- ordering supplies
 - Web sites 111
- output bin
 - capacity 38
 - features 4
- output quality. See print quality
- P**
- packaging product 119
- pages
 - blank 103
 - not printing 103
 - printing slowly 103
- pages per sheet 22
- pages, skewed 95
- paper
 - covers, using different paper 44
 - custom size, selecting 44
 - custom-size, Macintosh settings 21
 - first and last pages, using different paper 44
 - first page 21
 - pages per sheet 22
 - size, selecting 44
 - supported sizes 35

- supported types 37
 - type, selecting 44
 - paper handling
 - problem-solving 95
 - paper input trays
 - features 4
 - feeding problems, solving 95
 - paper jams. *See* jams
 - paper output bin
 - features 4
 - paper, ordering 112
 - part numbers
 - print cartridges 112
 - pausing a print request 42
 - PCL drivers
 - universal 11
 - physical specifications 122
 - pickup roller
 - change 65
 - clean 71
 - ports
 - troubleshooting Macintosh 108
 - types included 4
 - power
 - consumption 122
 - troubleshooting 78
 - presets (Macintosh) 21
 - print cartridges
 - non-HP 60
 - part numbers 112
 - recycling 60, 125
 - redistributing toner 61
 - storage 60
 - warranty 115
 - print density 102
 - print media
 - supported 35
 - print quality
 - creases 100
 - curl 99
 - dropouts 97
 - gray background 97
 - improve 96
 - light or faded print 96
 - loose toner 98
 - misformed characters 99
 - moisture on trailing edge 101
 - page skew 99
 - specifications 4
 - steam or vapor from the product 101
 - toner scatter outline 100
 - toner smear 98
 - toner specks 96
 - vertical lines 97
 - vertical repetitive defects 98
 - wave 99
 - wrinkles 100
 - print tasks 41
 - printing
 - configuration page 54
 - demo page 54
 - supplies status page 54
 - troubleshooting 103
 - priority input slot
 - capacity 38
 - loading 39
 - priority input tray
 - jams, clearing 86
 - priority, settings 12, 19
 - problem-solving
 - output quality 96
 - paper handling 95
 - status-light patterns 80
 - Windows issues 106
 - See also* solving; troubleshooting
 - product
 - software for Windows 9
 - view 6
- Q**
- quality
 - specifications 4
 - quick sets 44
 - quiet mode
 - enabling 59
- R**
- rear output door
 - features 4
 - recycling
 - HP printing supplies returns and environmental program 126
 - recycling supplies 60
 - redistributing toner 61
 - removing Macintosh software 18
 - removing software
 - Windows 14
 - repacking product 119
 - resize documents
 - Macintosh 21
 - resolution
 - problem-solving quality 96
 - specifications 4
- S**
- safety statements 130, 132
 - scale documents
 - Macintosh 21
 - separation pad
 - change 68
 - serial number 7
 - service
 - repacking product 119
 - settings
 - driver presets (Macintosh) 21
 - drivers 13, 19
 - priority 12, 19
 - Settings tab (embedded Web server) 56
 - shipping product 119
 - size specifications, product 122
 - size, media
 - tray selection 34
 - skewed pages 95
 - software
 - embedded Web server 15, 20
 - HP Web Jetadmin 15
 - problems 106
 - settings 12, 19
 - software license agreement 116
 - supported operating systems 18
 - supported Windows operating systems 10
 - uninstalling for Windows 14
 - uninstalling Macintosh 18
 - solving
 - creases 100
 - curl 99
 - direct-connect problems 104
 - dropouts 97
 - feeding problems 95
 - gray background 97
 - light or faded print 96
 - loose toner 98
 - misformed characters 99
 - moisture on trailing edge 101

- network problems 104
- page skew 99
- skewed pages 95
- steam or vapor from the product 101
- toner scatter outline 100
- toner smear 98
- toner specks 96
- vertical lines 97
- vertical repetitive defects 98
- wave 99
- wrinkles 100
- See *also* problem-solving; troubleshooting
- special media
 - guidelines 33
- special paper
 - guidelines 33
- specifications
 - electrical and acoustic 122
 - environment 122
 - physical 122
 - product features 4
- Spool32 errors 106
- status-light patterns 80
- stopping a print request 42
- storing
 - print cartridges 60
 - product 122
- supplies
 - counterfeit 60
 - non-HP 60
 - ordering 111, 112
 - part numbers 112
 - recycling 60, 125
- supplies status page 54
- support
 - online 118
 - repacking product 119
- supported media 35

T

- TCP/IP
 - operating systems supported 26
- technical support
 - online 118
 - repacking product 119
- temperature specifications 122
- tips iii

- toner
 - loose toner 98
 - low 96
 - redistributing 61
 - scatter outline 100
 - smear 98
 - specks 96
- toner cartridges. See print cartridges
- top output bin
 - features 4
- Tray 1 23
- tray 1
 - jams, clearing 86
- trays
 - capacity 38
 - double-sided printing 23
 - features 4
 - jams, clearing 86
 - loading 39
- troubleshooting
 - blank pages 103
 - checklist 78
 - direct-connect problems 104
 - Macintosh problems 107
 - network problems 104
 - pages not printing 103
 - pages printing slowly 103
 - USB cables 103
 - See *also* solving; problem-solving
- types, media
 - tray selection 34

U

- uninstalling
 - Windows software 14
- uninstalling Macintosh software 18
- uninstalling Windows software 14
- universal print driver 11
- USB cable, part number 112
- USB port
 - troubleshooting 103
 - troubleshooting Macintosh 108
 - type included 4

V

- view, product 6

W

- warnings iii
- warranty
 - customer self repair 118
 - license 116
 - print cartridges 115
 - product 114
- Web server, embedded 55
- Web sites
 - customer support 118
 - fraud reports 60
 - Macintosh customer support 118
 - Material Safety Data Sheet (MSDS) 127
 - ordering supplies 111
 - universal print driver 11
- Windows
 - driver settings 13
 - problem-solving issues 106
 - universal print driver 11

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