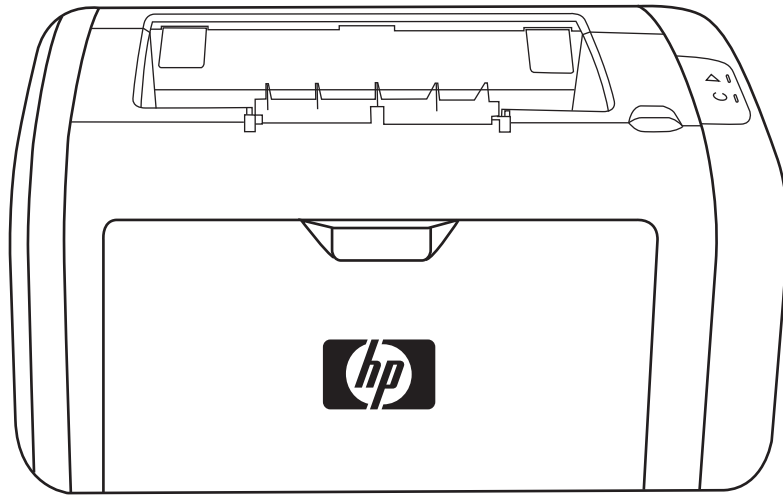




# LaserJet 1020

## User Guide







# HP LaserJet 1020 printer

User Guide

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# Table of contents

<b>1 Printer basics</b> .....	<b>1</b>
Quick access to more information .....	2
Web links for drivers, software, and support .....	2
HP LaserJet 1020 printer .....	2
User guide links .....	2
Where to look for more information .....	2
Printer configuration .....	3
HP LaserJet 1020 printer .....	3
Walkaround .....	4
Printer control panel .....	5
Media paths .....	6
Priority feed slot .....	6
Main input tray .....	6
Output bin .....	6
Printer connections .....	7
Connecting the USB cable .....	7
Printer software .....	8
Supported operating systems .....	8
Printer software for Windows computers .....	8
To install printer software for all other operating systems .....	8
Printer drivers .....	8
Printer properties (driver) .....	8
Printer properties online help .....	9
Print setting priorities .....	9
Printer information page .....	9
Printer information page .....	10
Printer Test page .....	10
Printer media considerations .....	11
Supported media sizes .....	11
<b>2 Printing tasks</b> .....	<b>13</b>
Manual feed .....	14

Canceling a print job .....	15
Understanding print quality settings .....	16
Optimizing print quality for media types .....	17
Guidelines for using media .....	18
Paper .....	18
Labels .....	18
Label construction .....	19
Transparencies .....	19
Envelopes .....	19
Envelope construction .....	19
Envelopes with double-side seams .....	19
Envelopes with adhesive strips or flaps .....	20
Envelope storage .....	20
Cardstock and heavy media .....	20
Cardstock construction .....	20
Cardstock guidelines .....	21
Letterhead and preprinted forms .....	21
Choosing paper and other media .....	22
HP media .....	22
Media to avoid .....	22
Media that might damage the printer .....	22
Loading media into the input trays .....	24
Priority feed slot .....	24
150-sheet main input tray .....	24
Printing an envelope .....	25
Printing multiple envelopes .....	27
Printing on transparencies or labels .....	29
Printing on letterhead and preprinted forms .....	30
Printing on custom-size media and cardstock .....	31
Printing on both sides of the paper (manual two-sided printing) .....	32
Printing multiple pages on a single sheet of paper (N-up printing) .....	34
Printing booklets .....	35
Printing watermarks .....	37
<b>3 Maintenance .....</b>	<b>39</b>
Cleaning the printer .....	40
Cleaning the print cartridge area .....	40
Cleaning the printer media path .....	41
Changing the pickup roller .....	43
Cleaning the pickup roller .....	46
Changing the printer separation pad .....	47

Redistributing toner .....	49
Changing the print cartridge .....	51

**4 Problem solving ..... 53**

Finding the solution .....	54
Step 1: Is the printer set up correctly? .....	54
Step 2: Is the Ready light on? .....	54
Step 3: Can you print a Printer Test page? .....	54
Step 4: Is the print quality acceptable? .....	55
Step 5: Is the printer communicating with the computer? .....	55
Step 6: Does the printed page look like you expected? .....	55
Contact HP support .....	55
Status light patterns .....	56
Paper handling problems .....	58
Media jam .....	58
Print is skewed (crooked) .....	58
More than one sheet of media feeds through the printer at one time .....	58
Printer does not pull media from the media input tray .....	58
Printer curled the media .....	59
Print job is extremely slow .....	59
Printed page is different than what appeared on screen .....	60
Garbled, incorrect, or incomplete text .....	60
Missing graphics or text, or blank pages .....	60
Page format is different than on another printer .....	61
Graphics quality .....	61
Printer software problems .....	62
Improving print quality .....	63
Light or faded print .....	63
Toner specks .....	63
Dropouts .....	63
Vertical lines .....	64
Gray background .....	64
Toner smear .....	64
Loose toner .....	65
Vertical repetitive defects .....	65
Misformed characters .....	65
Page skew .....	66
Curl or wave .....	66
Wrinkles or creases .....	66
Toner scatter outline .....	67
Water droplets on bottom edge .....	67

Clearing jams .....	68
Typical media jam locations .....	68
Removing a jammed page .....	68

**Appendix A Printer specifications ..... 71**

Environmental specifications .....	72
Acoustic emissions .....	73
Electrical specifications .....	74
Physical specifications .....	75
Printer capacities and ratings .....	76
Memory specifications .....	77

**Appendix B Service and support ..... 79**

HP limited warranty statement .....	80
UK, Ireland, and Malta .....	81
Austria, Belgium, Germany, and Luxemburg .....	81
Belgium, France, and Luxemburg .....	82
Italy .....	83
Spain .....	83
Denmark .....	84
Norway .....	84
Sweden .....	84
Portugal .....	85
Greece and Cyprus .....	85
Hungary .....	85
Czech Republic .....	86
Slovakia .....	86
Poland .....	86
Bulgaria .....	87
Romania .....	87
Belgium and the Netherlands .....	87
Finland .....	88
Slovenia .....	88
Croatia .....	88
Latvia .....	88
Lithuania .....	89
Estonia .....	89
Russia .....	89
HP's Premium Protection Warranty: LaserJet toner cartridge limited warranty statement .....	90
HP policy on non-HP supplies .....	91
HP anticounterfeit Web site .....	92



Data stored on the toner cartridge .....	93
End User License Agreement .....	94
Customer self-repair warranty service .....	98
Customer support .....	99

**Appendix C Environmental product stewardship program ..... 101**

Protecting the environment .....	102
Ozone production .....	102
Power consumption .....	102
Toner consumption .....	102
Paper use .....	103
Plastics .....	103
HP LaserJet print supplies .....	103
Paper .....	103
Material restrictions .....	103
Disposal of waste equipment by users (EU and India) .....	103
Electronic hardware recycling .....	104
Brazil hardware recycling information .....	104
Chemical substances .....	104
Product Power Data per European Union Commission Regulation 1275/2008 .....	104
Restriction on Hazardous Substances statement (India) .....	104
Restriction on Hazardous Substances statement (Turkey) .....	104
Restriction on Hazardous Substances statement (Ukraine) .....	105
Substances Table (China) .....	105
SEPA Ecolabel User Information (China) .....	105
The regulation of the implementation on China energy label for printer, fax, and copier .....	106
Material Safety Data Sheet (MSDS) .....	106
EPEAT .....	106
For more information .....	106

**Appendix D Regulatory information ..... 107**

Regulatory statements .....	108
FCC regulations .....	108
Canada - Industry Canada ICES-003 Compliance Statement .....	108
EMC statement (Korea) .....	108
Power cord instructions .....	108
Laser safety .....	108
Laser statement for Finland .....	109
GS statement (Germany) .....	110
Eurasian Conformity (Belarus, Kazakhstan, Russia) .....	110

<b>Appendix E HP parts and accessories .....</b>	<b>111</b>
Ordering supplies .....	112
Using HP print cartridges .....	113
HP policy on non-HP print cartridges .....	113
HP anticounterfeit Web site .....	113
Storing print cartridges .....	113
Print cartridge life expectancy .....	113
Saving toner .....	114
<b>Index .....</b>	<b>115</b>

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# 1 Printer basics

This chapter provides information on the following topics:

- [Quick access to more information](#)
- [Printer configuration](#)
- [Walkaround](#)
- [Printer control panel](#)
- [Media paths](#)
- [Printer connections](#)
- [Printer software](#)
- [Printer information page](#)
- [Printer media considerations](#)

## Quick access to more information

The following sections provide resources for additional information about the HP LaserJet 1020 printer.

### Web links for drivers, software, and support

If you need to contact HP for service or support, use one of the following links.

#### HP LaserJet 1020 printer

- In the United States, see <http://www.hp.com/support/lj1020/>.
- In other countries/regions, see <http://www.hp.com/>.

#### User guide links

- [Walkaround on page 4](#) (location of printer components)
- [Changing the print cartridge on page 51](#)
- [Problem solving on page 53](#)
- [Ordering supplies on page 112](#)

#### Where to look for more information

- **CD user guide:** Detailed information on using and troubleshooting the printer. Available on the CD-ROM that came with the printer.
- **Online Help:** Information on printer options that are available from within printer drivers. To view a Help file, access the online Help through the printer driver.
- **HTML (online) user guide:** Detailed information on using and troubleshooting the printer. Available at <http://www.hp.com/support/lj1020/>. Once connected, select **Manuals**.

# Printer configuration

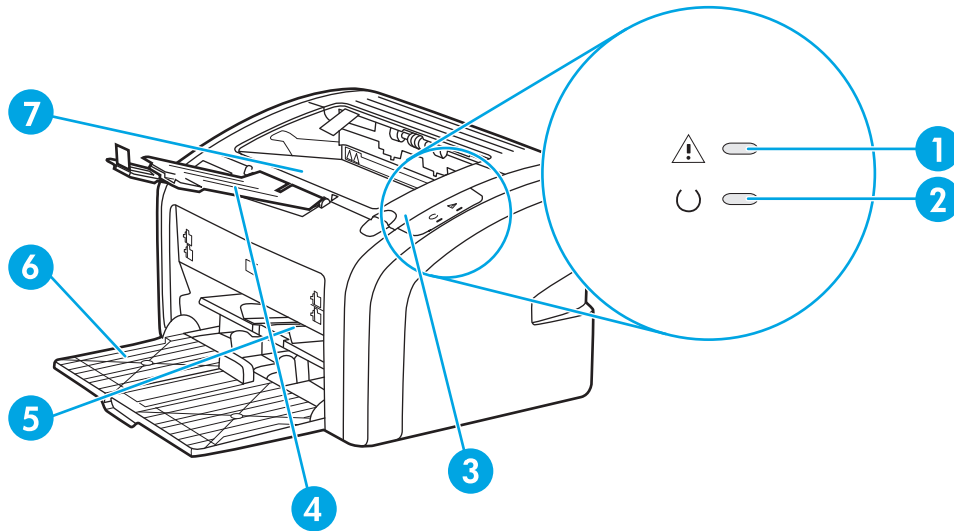
Below is the standard configuration for the HP LaserJet 1020 printer.

## HP LaserJet 1020 printer

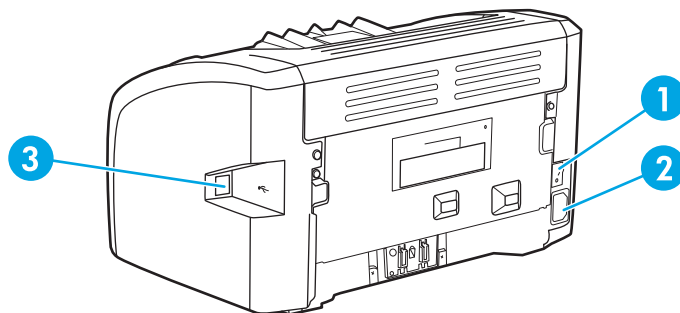
- 14 pages per minute (ppm) for A4 media and 15 ppm for letter media
- First page out in as few as 10 seconds
- FastRes 1200: 1200 dpi effective output quality (600 x 600 x 2 dpi with HP Resolution Enhancement technology [REt])
- 150-sheet main input tray
- Priority feed slot
- 100-sheet output capacity
- EconoMode (saves toner)
- Print watermarks, booklets, multiple pages per sheet (N-up), and first page on different media than rest of the document
- 2 MB RAM
- 2,000-page print cartridge
- USB 2.0 High Speed
- Power switch

## Walkaround

The following illustrations identify the components of the HP LaserJet 1020 printer.



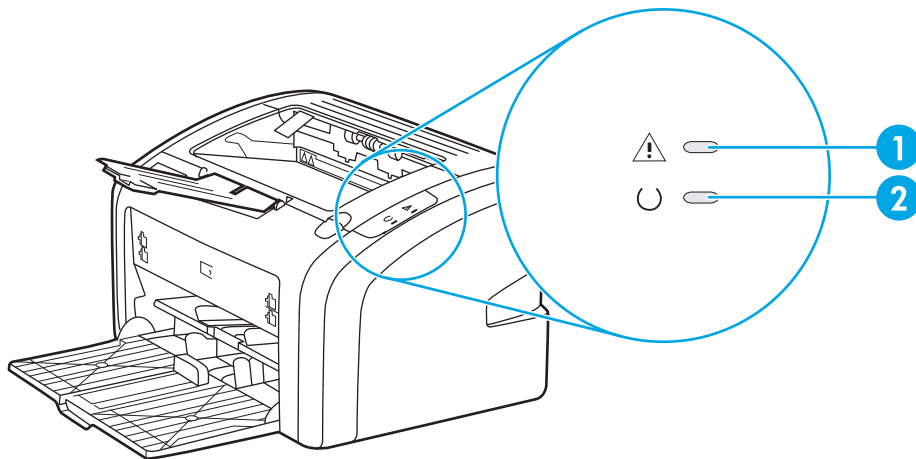
1	Attention light
2	Ready light
3	Print cartridge door
4	Output media support
5	Priority feed slot
6	150-sheet main input tray
7	Output bin



1	On/off switch
2	Power receptacle
3	USB port

## Printer control panel

The printer control panel is composed of two lights. These lights produce patterns that identify your printer's status.



---

**1 Attention light:** Indicates that the printer media input trays are empty, the print cartridge door is open, the print cartridge is missing, or other errors. See [Printer information page on page 10](#) for more information.

---

**2 Ready light:** Indicates that the printer is ready to print.

---

 **NOTE:** See [Status light patterns on page 56](#) for a description of the light patterns.

---

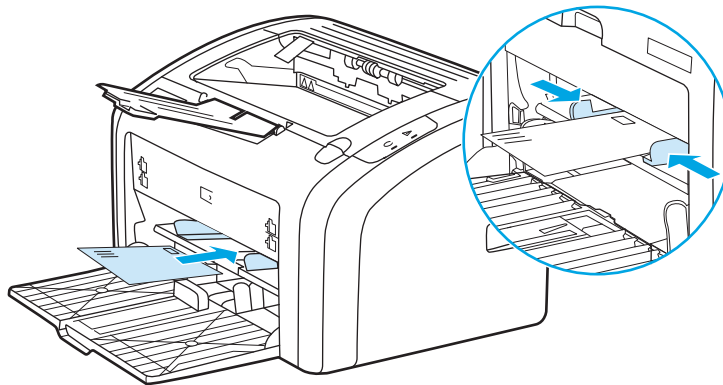
## Media paths

The following sections describe the input trays and output bin.

### Priority feed slot

You should use the priority feed slot when feeding one sheet of paper, envelope, postcard, label, or transparency. You can also use the priority feed slot to print the first page on different media than the rest of the document.

Media guides ensure that the media is correctly fed into the printer and that the print is not skewed (crooked on the media). When loading media, adjust the media guides to match the width of the media that you are using.

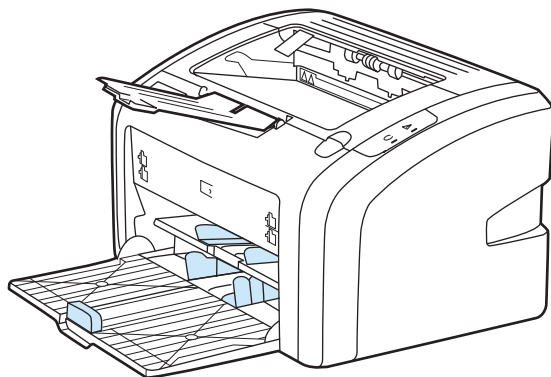


See [Choosing paper and other media on page 22](#) for more information about media types.

### Main input tray

The main input tray, accessed from the front of the printer, holds up to 150 sheets of 20-lb paper or other media. For information about media specifications, see [Printer capacities and ratings on page 76](#).

Media guides ensure the media is correctly fed into the printer and the print is not skewed (crooked on the media). The main input tray has both side and front media guides. When loading media, adjust the media guides to match the length and width of the media that you are using.



### Output bin

The output bin is located on the top of the printer. Printed media is collected here in the correct sequence. The output media support provides improved stacking for large print jobs.

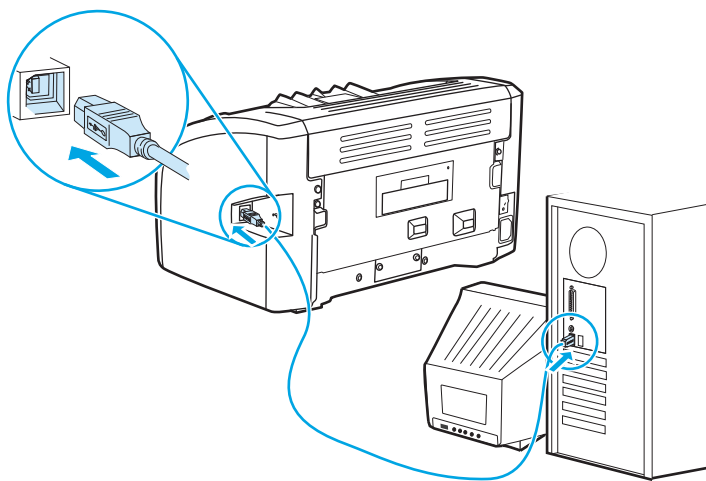


## Printer connections

The HP LaserJet 1020 printer supports USB 2.0 High Speed connections.

### Connecting the USB cable


1. Plug the USB cable into the printer.
2. Plug the other end of the USB cable into the computer when prompted to do so during the software installation.



## Printer software

The following sections describe the supported operating systems and the software that is provided with the HP LaserJet 1020 printer.

---

 **NOTE:** Not all software is available in all languages.

---

## Supported operating systems

The printer comes with software for the following operating systems:

- Windows Vista (32-bit and 64-bit)
- Windows XP (32-bit and 64-bit)
- Windows 7 (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/>.


## Printer software for Windows computers

The following sections provide instructions for installing the printer software on various Windows operating systems and the software that is available to all users of the printer.

### To install printer software for all other operating systems

Insert the software CD that came with the printer into the computer CD-ROM drive. **Follow the on-screen installation instructions.**

---

 **NOTE:** If the Welcome screen does not open, click **Start** on the Windows task bar, click **Run**, type `Z : \setup` (where Z is your CD drive letter), and click **OK**.

---

## Printer drivers


A printer driver is the software component that provides access to printer features and provides the means for the computer to communicate with the printer.

## Printer properties (driver)

Printer properties control the printer. You can change the default settings, such as media size and type, printing multiple pages on a single sheet of media (N-up printing), resolution, and watermarks. You can access the printer properties in the following ways:

- Through the software application that you are using to print. This only changes the settings for the current software application.
- Through the Windows operating system. This changes the default settings for all future print jobs.

---

 **NOTE:** Because many software applications use a different method of accessing the printer properties, the following section describes the most common methods used in Windows Vista, 7, and Windows XP.

---

## To only change the settings for the current software application



**NOTE:** Although the steps can vary between software applications, this is the most common method.

1. From the **File** menu in the software application, click **Print**.
2. On the **Print** dialog, click **Properties**.
3. Change the settings, and click **OK**.

## To change the default settings for all future print jobs in Windows

1. **Windows Vista and Windows 7:** Click **Start**, click **Control Panel**, and then in the category for **Hardware and Sound** click **Printer**.  
**Windows XP and Windows Server 2003 (using the default Start menu view):** Click **Start**, and then click **Printers and Faxes**.  
**Windows XP and Windows Server 2003 (using the Classic Start menu view):** Click **Start**, click **Settings**, and then click **Printers**.
2. Right-click the driver icon, and then select **Printing Preferences**.

## Printer properties online help

The printer properties (driver) online help includes specific information about the functions in the printer properties. This online help guides you through the process of changing your printer's default settings. For some drivers, online help gives instructions on using context-sensitive help. Context-sensitive help describes the options for the driver feature you are currently accessing.

## To access the printer properties online help

1. From the software application, click **File**, and then click **Print**.
2. Click **Properties**, and then click **Help**.

## Print setting priorities

There are two ways to change print settings for this printer: in the software application or in the printer driver. Changes made in the software application override settings changed in the printer driver. Within a software application, changes made in the Page Setup dialog box override changes made in the Print dialog box.

## Printer information page

If a particular print setting can be changed in more than one of the ways listed above, use the method that has the highest priority.

## Printer information page

The Printer Test page is a printer information page that resides within the memory of the printer. During installation you can choose to print the Printer Test page. If the page prints, you correctly installed the printer.

## Printer Test page

The Printer Test page contains information about printer driver and port settings. The page also contains information about the printer name and model, computer name, and so on. You can print the Printer Test page from the printer driver.

## Printer media considerations

HP LaserJet printers produce excellent print quality. The printer accepts a variety of media, such as cut-sheet paper (including recycled paper), envelopes, labels, transparencies, vellum, and custom-size paper. Properties such as weight, grain, and moisture content are important factors affecting printer performance and output quality.

The printer can use a variety of paper and other print media in accordance with the guidelines in this user guide. Media that does not meet these guidelines might cause the following problems:


- Poor print quality
- Increased media jams
- Premature wear on the printer, requiring repair

For best results, use only HP brand paper and print media. HP Company cannot recommend the use of other brands. Because they are not HP products, HP cannot influence or control their quality.

It is possible for media 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 humidity levels, or other variables over which HP has no control.

Before purchasing a large quantity of media, make sure that it meets the requirements specified in this user guide and in the *HP LaserJet printer family print media guide*. The guidelines can be downloaded from <http://www.hp.com/support/ljpaperguide/> or see [Ordering supplies on page 112](#) for more information about ordering the guidelines. Always test media before you purchase a large quantity.

---

 **CAUTION:** Using media that does not meet HP's specifications might cause problems for the printer, requiring repair. This repair is not covered by the HP warranty or service agreements.

---

## Supported media sizes

For information about supported media sizes, see [Printer capacities and ratings on page 76](#).



---

## 2 Printing tasks

This chapter provides information on the following topics:

- [Manual feed](#)
- [Canceling a print job](#)
- [Understanding print quality settings](#)
- [Optimizing print quality for media types](#)
- [Guidelines for using media](#)
- [Choosing paper and other media](#)
- [Loading media into the input trays](#)
- [Printing an envelope](#)
- [Printing multiple envelopes](#)
- [Printing on transparencies or labels](#)
- [Printing on letterhead and preprinted forms](#)
- [Printing on custom-size media and cardstock](#)
- [Printing on both sides of the paper \(manual two-sided printing\)](#)
- [Printing multiple pages on a single sheet of paper \(N-up printing\)](#)
- [Printing booklets](#)
- [Printing watermarks](#)

## Manual feed

You can use manual feed when printing mixed media, for example, an envelope, then a letter, then an envelope, and so on. Feed an envelope into the priority feed slot and load letterhead into the main input tray.

### To print using manual feed

1. Access the printer properties (or printing preferences in Windows 2000 and XP). See [Printer properties \(driver\) on page 8](#) for instructions.
2. On the **Paper/Quality** tab, select **Manual Feed** from the **Source is** drop-down list.
3. Feed media into the priority feed slot, and click **Continue**.



## Canceling a print job

You can cancel a print job from a software application or a print queue.

To stop the printer immediately, remove the remaining paper from the printer. After the printer stops, use one of the following options.

- **Software application:** Typically, a dialog box appears briefly on your screen, allowing you to cancel the print job.
- **Windows print queue:** If a print job is waiting in a print queue (computer memory) or print spooler, delete the job there. Click **Start**, **Settings**, and **Printers** or **Printers and Faxes**. Double-click the **HP LaserJet 1020** icon to open the window, select your print job, and click **Delete** or **Cancel**.

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


## Understanding print quality settings


Print quality settings affect how light or dark the print is on the page and the style in which the graphics are printed. You can also use the print quality settings to optimize the print quality for a specific media type. See [Optimizing print quality for media types on page 17](#) for more information.

You can change the settings in the printer properties to accommodate the types of jobs you are printing. The following are the settings:

- **FastRes 1200:** This setting provides 1200 dpi effective output quality (600 x 600 x 2 dpi with HP Resolution Enhancement technology [REt]).
  - **600 dpi:** This setting provides 600 x 600 dpi output with Resolution Enhancement technology (REt) for improved text.
  - **EconoMode (Save Toner):** Text is printed using less toner. This setting is useful when you are printing drafts. You can turn on this option independently of other print quality settings.
1. Access the printer properties (or printing preferences in Windows 2000 and XP). See [Printer properties \(driver\) on page 8](#) for instructions.
  2. On the **Finishing** tab, select the print quality setting you want to use.

---

 **NOTE:** Not all printer features are available in all drivers or operating systems. See the printer properties (driver) online Help for information about the availability of features for that driver.

 **NOTE:** To change the print quality settings for all future print jobs, access the properties through the **Start** menu in the Windows task bar. To change the print quality settings only for the current software application, access the properties through the **Print Setup** menu in the application you are using to print. See [Printer properties \(driver\) on page 8](#) for more information.

---

# Optimizing print quality for media types

Media type settings control the temperature of your printer's fuser. You can change the settings for the media that you are using to optimize the print quality.

The HP LaserJet 1020 printer provides a number of print modes that allow the unit to adapt more specifically to the printer's media environment. The following tables provide an overview of the driver print modes.



**NOTE:** When using the CARDSTOCK, ENVELOPE, LABEL, and ROUGH modes, the printer pauses between pages and the number of pages per minute decreases.

**Table 2-1 Driver print default modes**

Mode	Media
PLAIN	75 to 104 g/m <sup>2</sup> (20 to 27 lb)
LIGHT	< 75 g/m <sup>2</sup> (20 lb)
HEAVY	90 to 105 g/m <sup>2</sup> (24 to 28 lb)
CARDSTOCK	Cardstock or thick media
TRANSPARENCY	4-mil, 0.1 monochrome overhead transparencies (OHTs)
ENVELOPE	Standard envelopes
LABEL	Standard HP LaserJet labels
BOND	Bond paper
ROUGH	Rough paper
COLOR	Plain media
LETTERHEAD	Plain media
PREPRINTED	Plain media
PREPUNCHED	Plain media
RECYCLED	Plain media
VELLUM	Plain media

## Guidelines for using media

The following sections provide guidelines and instructions for printing on transparencies, envelopes, and other special media. Guidelines and specifications are included to help you select media that optimizes print quality and avoid media that might cause jams or damage the printer.

### Paper

For best results, use conventional 75 g/m<sup>2</sup> (20 lb) paper. Make sure that the paper is of good quality and free of cuts, nicks, tears, spots, loose particles, dust, wrinkles, voids, and curled or bent edges.

If you are unsure about what type of paper you are loading (such as bond or recycled), check the label on the package of paper.

Some paper causes print quality problems, jamming, or damage to the printer.

**Table 2-2 Paper usage**

Symptom	Problem with paper	Solution
Poor print quality or toner adhesion Problems with feeding	Too moist, too rough, too smooth, or embossed  Faulty paper lot	Try another kind of paper between 100-250 Sheffield and 4-6% moisture content.  Check the printer and make sure that the appropriate media type has been selected.
Dropouts, jamming, or curl	Stored improperly	Store paper flat in its moisture-proof wrapping.
Increased gray background shading	Might be too heavy	Use lighter paper.
Excessive curl Problems with feeding	Too moist, wrong grain direction, or short-grain construction	Use long-grain paper.  Check the printer and make sure that the appropriate media type has been selected.
Jamming or damage to printer	Cutouts or perforations	Do not use paper with cutouts or perforations.
Problems with feeding	Ragged edges	Use good quality paper.



**NOTE:** The printer uses heat and pressure to fuse toner to the paper. Make sure that any colored paper or preprinted forms use inks that are compatible with the printer temperature. The printer's maximum temperature is 200°C (392°F) for 0.1 second.

Do not use letterhead that is printed with low-temperature inks, such as those used in some types of thermography.

Do not use raised letterhead.

Do not use transparencies designed for Inkjet printers or other low-temperature printers. Use only transparencies that are specified for use with HP LaserJet printers.

### Labels

HP recommends that you print labels from the priority feed slot.

---

**⚠ CAUTION:** Do not feed a sheet of labels through the printer more than once. The adhesive degrades and might damage the printer.

---

## Label construction

When selecting labels, consider the quality of the following components:

- **Adhesives:** The adhesive material should be stable at 200°C (392°F), the printer's maximum temperature.
- **Arrangement:** Only use labels with no exposed backing between them. Labels can peel off sheets that have spaces between the labels, causing serious jams.
- **Curl:** Prior to printing, labels must lie flat with no more than 13 mm (0.5 inches) of curl in any direction.
- **Condition:** Do not use labels with wrinkles, bubbles, or other indications of separation.

## Transparencies

Transparencies must be able to withstand the printer's maximum temperature of 200°C (392°F).

## Envelopes

HP recommends that you print envelopes from the priority feed slot.

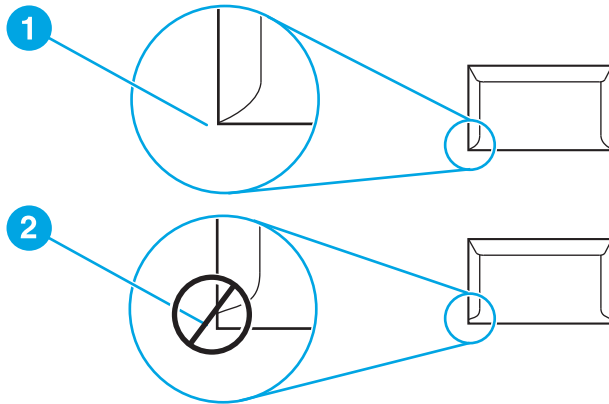
### Envelope construction

Envelope construction is critical. Envelope fold lines can vary considerably, not only between manufacturers, but also within a box from the same manufacturer. Successful printing on envelopes depends upon the quality of the envelopes. When selecting envelopes, consider the following components:

- **Weight:** The weight of the envelope paper should not exceed 90 g/m<sup>2</sup> (24 lb) or jamming might result.
- **Construction:** Prior to printing, envelopes should lie flat with less than 6 mm (0.25 inches) curl and should not contain air. Envelopes that trap air might cause problems. Do not use envelopes that contain clasps, snaps, tie strings, transparent windows, holes, perforations, cut outs, synthetic materials, stamping, or embossing. Do not use envelopes with adhesives that do not require moistening, but rely instead on pressure to seal them.
- **Condition:** Make sure that the envelopes are not wrinkled, nicked, or otherwise damaged. Make sure that the envelopes do not have any exposed adhesive.
- **Sizes:** The envelope sizes range from 90 x 160 mm (3.5 x 6.3 inches) to 178 x 254 mm (7 x 10 inches).

### Envelopes with double-side seams

An envelope with double-side-seam construction has vertical seams at both ends of the envelope rather than diagonal seams. This style might be more likely to wrinkle. Make sure that the seam extends all the way to the corner of the envelope as shown in the following illustration.



1	acceptable envelope construction
2	unacceptable envelope construction

## Envelopes with adhesive strips or flaps

Envelopes with a peel-off adhesive strip or with more than one flap that folds over to seal must use adhesives compatible with the heat and pressure in the printer. The printer's maximum temperature is 200°C (392°F). The extra flaps and strips might cause wrinkling, creasing, or jams.

## Envelope storage

Proper storage of envelopes contributes to good print quality. You should store envelopes flat. If air is trapped in an envelope, creating an air bubble, the envelope might wrinkle during printing.

## Cardstock and heavy media

You can print many types of cardstock from the media input trays, including index cards and postcards. Some cardstock performs better than others because its construction is better suited for feeding through a laser printer.

For optimum printer performance, do not use paper heavier than 157 g/m<sup>2</sup> (42 lb). Paper that is too heavy might cause misfeeds, stacking problems, paper jams, poor toner fusing, poor print quality, or excessive mechanical wear.



**NOTE:** You might be able to print on heavier paper if you do not fill the input tray to capacity and if you use paper with a smoothness rating of 100-180 Sheffield.

## Cardstock construction

- **Smoothness:** The 135-157 g/m<sup>2</sup> (36-42 lb) cardstock should have a smoothness rating of 100-180 Sheffield; 60-135 g/m<sup>2</sup> (16-36 lb) cardstock should have a smoothness rating of 100-250 Sheffield.
- **Construction:** Cardstock should lie flat with less than 5 mm (0.2 inches) of curl.
- **Condition:** Make sure that the cardstock is not wrinkled, nicked, or otherwise damaged.
- **Sizes:** Only use cardstock within the following size ranges:

- **Minimum:** 76 x 127 mm (3 x 5 inches)
- **Maximum:** 216 x 356 mm (8.5 x 14.0 inches)

## Cardstock guidelines

Set margins at least 2 mm (0.08 inches) away from the edges.

## Letterhead and preprinted forms

Letterhead is premium paper that often has a watermark, sometimes uses cotton fiber, and is available in a wide range of colors and finishes with matching envelopes. Preprinted forms can be made of a broad spectrum of paper types ranging from recycled to premium.

Many manufactures now design these grades of paper with properties optimized for laser printer and advertise the paper as laser-compatible or laser-guaranteed.



---

**NOTE:** Some page-to-page variation is normal when printing with laser printers. This variation cannot be observed when printing on plain paper. However, this variation is obvious when printing on preprinted forms because the lines and boxes are already placed on the page.

---

To avoid problems when using preprinted forms, embossed paper, and letterhead, observe the following guidelines:


- Avoid using low-temperature inks (the kind used with some types of thermography).
- Use preprinted forms and letterhead paper that have been printed by offset lithography or engraving.
- Use forms that have been created with heat-resistant inks that will not melt, vaporize, or release undesirable emissions when heated to 200°C (392°F) for 0.1 second. Typically, oxidation-set or oil-based inks meet this requirement.
- When the form is preprinted, be careful not to change the moisture content of the paper, and do not use materials that change the paper's electrical or handling properties. Seal the forms in moisture-proof wrap to prevent moisture changes during storage.
- Avoid processing preprinted forms that have a finish or coating.
- Avoid using heavily embossed or raised-letterhead papers.
- Avoid papers that have heavily textured surfaces.
- Avoid using offset powders or other materials that prevent printed forms from sticking together.

## Choosing paper and other media

HP LaserJet printers produce excellent print quality documents. You can print on a variety of media, such as paper (including up to 100% recycled fiber content paper), envelopes, labels, transparencies, and custom-size media. The following are the supported media sizes:

- **Minimum:** 76 x 127 mm (3 x 5 inches)
- **Maximum:** 216 x 356 mm (8.5 x 14 inches)

Properties such as weight, grain, and moisture content are important factors that affect printer performance and quality. To achieve the best possible print quality, only use high-quality media designed for laser printers. See [Printer media considerations on page 11](#) for detailed paper and media specifications.

 **NOTE:** Always test a sample of the media before you purchase large quantities. Your media supplier should understand the requirements specified in the *HP LaserJet printer family print media guide* (HP part number 5851-1468). See [Printer media considerations on page 11](#) for more information.

### HP media

HP recommends the following HP media:

- HP Multipurpose Paper
- HP Office Paper
- HP All-in-One Printing Paper
- HP LaserJet Paper
- HP Premium Choice LaserJet Paper

### Media to avoid

The HP LaserJet 1020 printer can handle many types of media. Use of media outside the printer's specifications will cause a loss of print quality and increase the chance of paper jams.

- Do not use paper that is too rough.
- Do not use paper with cutouts or perforations other than standard three-hole punched paper.
- Do not use multipart forms.
- Do not use paper with a watermark if you are printing solid patterns.

### Media that might damage the printer

In rare circumstances media can damage the printer. The following media must be avoided to prevent possible damage:

- Do not use media with staples attached.
- Do not use transparencies designed for Inkjet printers or other low-temperature printers. Use only transparencies that are specified for use with HP LaserJet printers.
- Do not use photo paper intended for Inkjet printers.




- Do not use paper that is embossed or coated and is not designed for the temperatures of the printer's image fuser. Select media that can tolerate temperatures of 200°C (392°F) for 0.1 second. HP produces a selection of media that is designed for the HP LaserJet 1020 printer.
- Do not use letterhead paper with low-temperature dyes or thermography. Preprinted forms or letterhead must use inks that can tolerate temperatures of 200°C (392°F) for 0.1 second.
- Do not use any media that produces hazardous emissions, or that melts, offsets, or discolors when exposed to 200°C (392°F) for 0.1 second.

To order HP LaserJet printing supplies, go to <http://www.hp.com/go/ljsupplies/> in the U.S. or to <http://www.hp.com/ghp/buyonline.html/> worldwide.

## Loading media into the input trays

The following sections describe how to load media into the different input trays.

---

 **CAUTION:** If you try to print on media that is wrinkled, folded, or damaged in any way, a jam might occur. See [Printer media considerations on page 11](#) for more information.

---


### Priority feed slot

The priority feed slot holds one sheet of media up to 163 g/m<sup>2</sup> (43 lb) or one envelope, transparency, or cardstock. Load media with the top forward and the side to be printed facing up. To prevent jams and skewing, always adjust the side media guides before feeding the media.

### 150-sheet main input tray

The input tray holds up to 150 pages of 75 g/m<sup>2</sup> (20 lb) paper or fewer pages of heavier media of 25 mm (0.9 inches) or less stack height. Load media with the top forward and the side to be printed 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 stack of new media. This helps prevent multiple sheets of media from feeding through the printer at one time, reducing media jams.

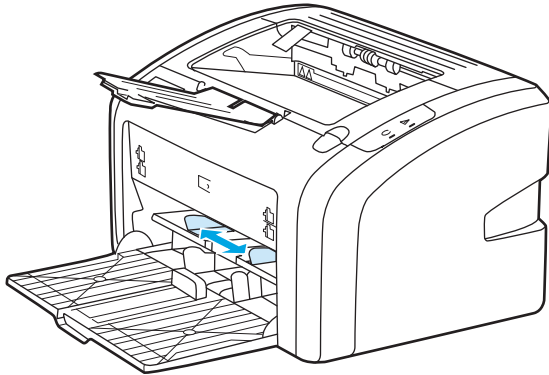
---


## Printing an envelope

Only use envelopes that are recommended for laser printers. See [Printer media considerations on page 11](#) for more information.

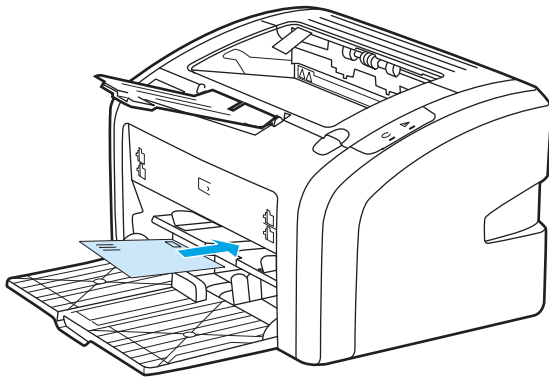
 **NOTE:** Use the priority feed slot for printing one envelope. Use the main input tray for printing multiple envelopes.

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

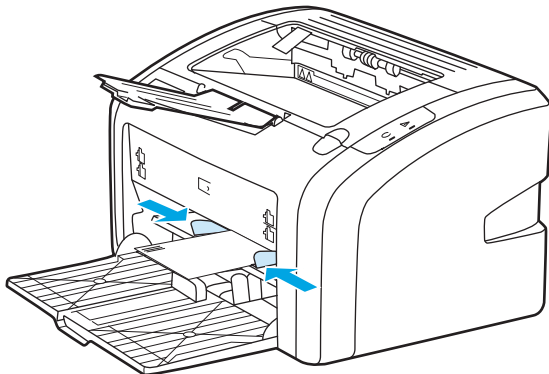


 **NOTE:** If the envelope has a flap on the short edge, feed that edge into the printer first.

2. Place the envelope with the side to be printed facing up and the top edge along the left media guide.



3. Adjust the media guides to the width of the envelope.



4. Access the printer properties (or printing preferences in Windows 2000 and XP). See [Printer properties \(driver\) on page 8](#) for instructions.

5. On the **Paper/Quality** tab, select **Envelope** as the media type.



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**NOTE:** Not all printer features are available in all drivers or operating systems. See the printer properties (driver) online Help for information about availability of features for that driver.


---

6. Print the envelope.

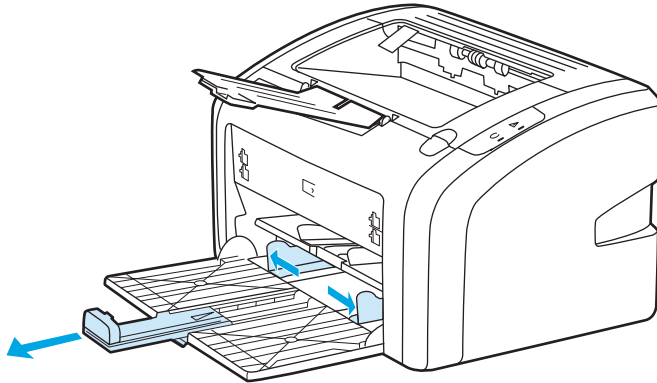
To print using manual feed, see [Manual feed on page 14](#).

# Printing multiple envelopes

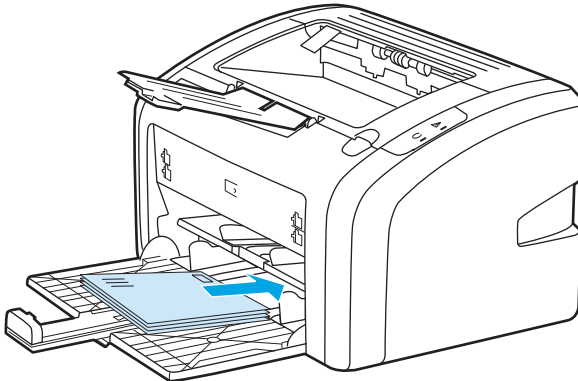
Only use envelopes that are recommended for laser printers. See [Printer media considerations on page 11](#) for more information.


 **NOTE:** Use the priority feed slot for printing one envelope. Use the main input tray for printing multiple envelopes.

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

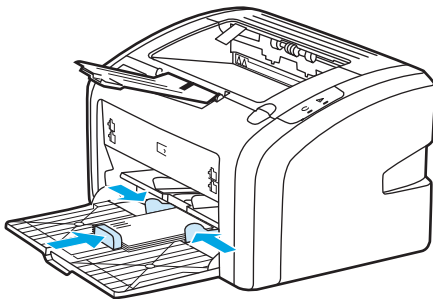


2. Place the envelopes with the side to be printed facing up and the top edge along the left media guide. Stack up to 15 envelopes.



 **NOTE:** If the envelopes have a flap on the short edge, feed that edge into the printer first.

3. Adjust the media guides to the length and width of the envelopes.



4. Access the printer properties (or printing preferences in Windows 2000 and XP). See [Printer properties \(driver\) on page 8](#) for instructions.



---

**NOTE:** Not all printer features are available from all drivers or operating systems. See the printer properties (driver) online Help for information about availability of features for that driver.

---

5. On the **Paper/Quality** tab, select **Envelope** as the media type.
6. Print the envelopes.

## Printing on transparencies or labels

Use only transparencies and labels that are recommended for use in laser printers, such as HP transparency film and HP LaserJet labels. See [Printer media considerations on page 11](#) for more information.

---

**CAUTION:** Be sure to set the correct media type in the printer settings as instructed below. The printer adjusts the fuser temperature according to the media type setting. When printing on special media such as transparencies or labels, this adjustment prevents the fuser from damaging the media as it passes through the printer.

**CAUTION:** Inspect the media to make sure that it is not wrinkled or curled and that it does not have any torn edges or missing labels.

---

1. Load a single page in the priority feed slot or load multiple pages in the main input tray. Make sure that the top of the media is forward and the side to be printed (rough side) is facing up.
2. Adjust the media guides.
3. Access the printer properties (or printing preferences in Windows 2000 and XP). See [Printer properties \(driver\) on page 8](#) for instructions.
4. On the **Paper/Quality** tab, choose the correct media type.
5. Print the document.


## Printing on letterhead and preprinted forms

The HP LaserJet 1020 printer can print on letterhead and preprinted forms that can withstand temperatures of 200°C (392°F).

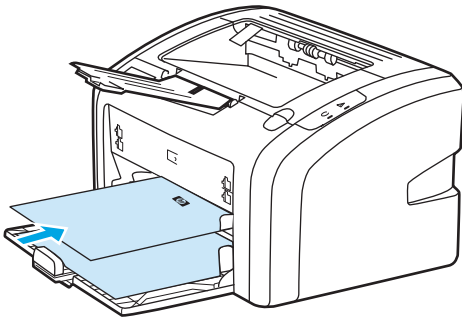
1. Load the paper with the top forward and the side to be printed facing up. Adjust the media guides to fit the width of the paper.
2. Access the printer properties (or printing preferences in Windows 2000 and XP). See [Printer properties \(driver\) on page 8](#) for instructions.
3. On the **Paper/Quality** tab, choose the correct media type.
4. Print the document.

To print using manual feed, see [Manual feed on page 14](#).

---

 **NOTE:** To print a single-page cover letter on letterhead, followed by a multiple-page document, load the standard paper in the main input tray, and then feed the letterhead face up in the priority feed slot.

---





## Printing on custom-size media and cardstock

The HP LaserJet 1020 printer can print on custom-size media or cardstock between 76 x 127 mm (3 x 5 inches) and 216 x 356 mm (8.5 x 14 inches).

Use the main input tray for multiple sheets. See [Main input tray on page 6](#) for the supported media sizes.

---

**CAUTION:** Make sure that the sheets are not stuck together before you load them.

---

1. Load the media with the narrow side forward and the side to be printed facing up. Adjust the media guides to fit the media.
2. Access the printer properties (or printing preferences in Windows 2000 and XP). See [Printer properties \(driver\) on page 8](#) for instructions.
3. On the **Paper/Quality** tab, select the custom-size option. Specify the dimensions of the custom-size media.

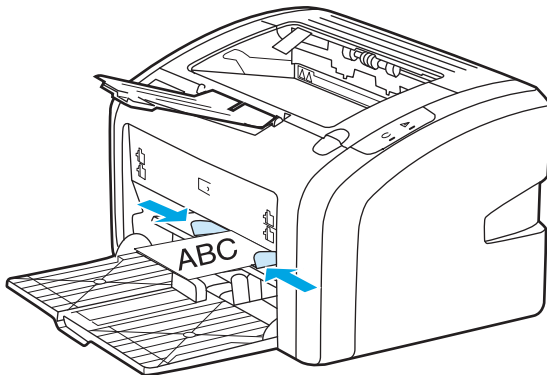
---

**NOTE:** Not all printer features are available in all drivers or operating systems. See the printer properties (driver) online Help for information about availability of features for that driver.

---

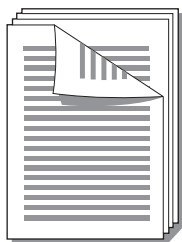
4. Print the document.


To print using manual feed, see [Manual feed on page 14](#).




## Printing on both sides of the paper (manual two-sided printing)

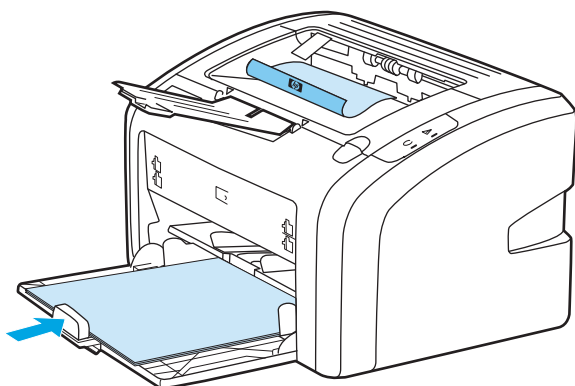
To print on both sides of the paper (manual two-sided printing), you must run the paper through the printer twice.



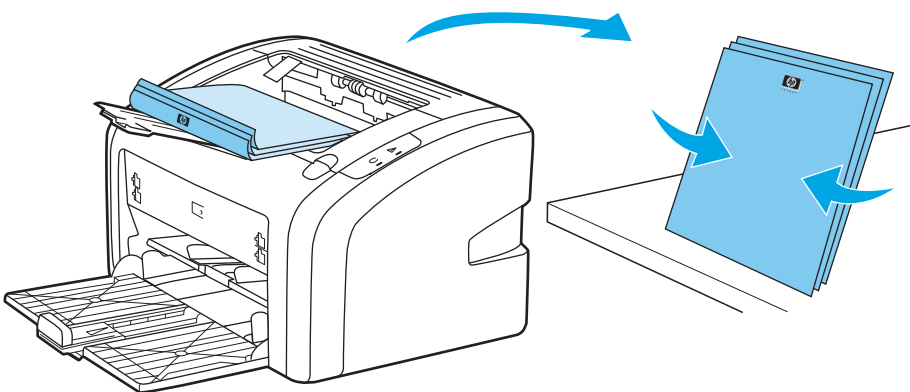
 **NOTE:** Manual two-sided printing can cause the printer to become dirty, reducing print quality. See [Cleaning the printer on page 40](#) for instructions if the printer becomes dirty.

1. Access the printer properties (or printing preferences in Windows 2000 and XP). See [Printer properties \(driver\) on page 8](#) for instructions.
2. On the **Finishing** tab, select **Print On Both Sides (Manually)**. Select the appropriate binding option, and click **OK**.
3. Print the document.

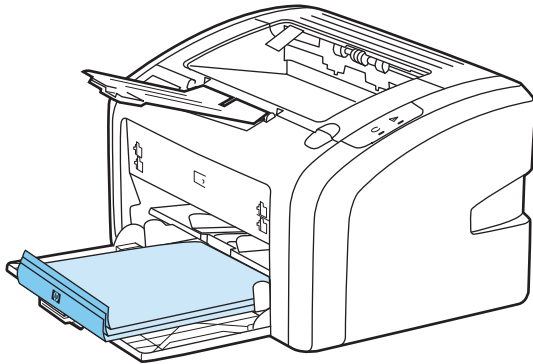
 **NOTE:** Not all printer features are available from all drivers or operating systems. See the printer properties (driver) online Help for information about availability of features for that driver.



4. After side one has printed, gather the printed pages, turn the printed side down, and straighten the stack.



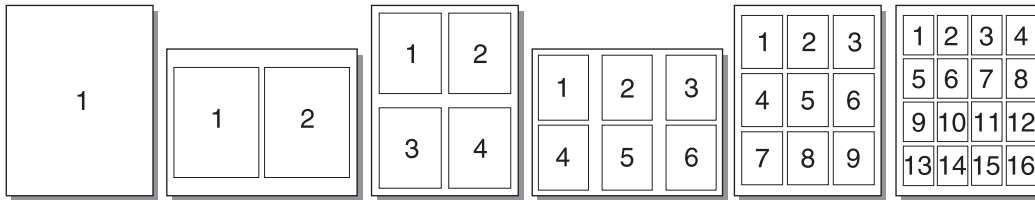
5. Place the stack back in the input tray. Side one should be facing down with the bottom edge feeding into the printer first.



6. Click **Continue** to print side two.

## Printing multiple pages on a single sheet of paper (N-up printing)

You can select the number of pages that you want to print on a single sheet of paper. If you choose to print more than one page per sheet, the pages appear smaller and are arranged on the sheet in the order that they would otherwise be printed.



1. From your software application, access the printer properties (or printing preferences in Windows 2000 and XP). See [Printer properties \(driver\) on page 8](#) for instructions.
2. On the **Finishing** tab, select the correct number of pages per side.




**NOTE:** Not all printer features are available from all drivers or operating systems. See the printer properties (driver) online Help for information about availability of features for that driver.

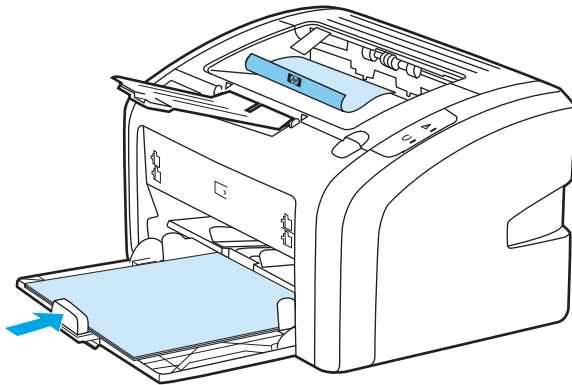
3. (Optional steps) To include page borders, select the check box. To specify the order of pages printed on the sheet, select the order from the drop-down menu.
4. Print the document.

## Printing booklets

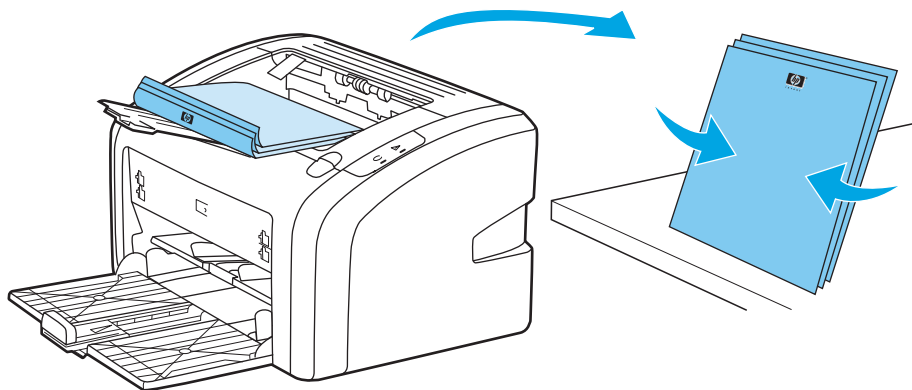
You can print booklets on letter or A4 paper.

1. Load the paper in the main input tray.
2. Access the printer properties (or printing preferences in Windows 2000 and XP). See [Printer properties \(driver\) on page 8](#) for instructions.
3. On the **Finishing** tab, select the option to **Print On Both Sides (Manually)**. Select the appropriate binding option, and click **OK**. Print the document.

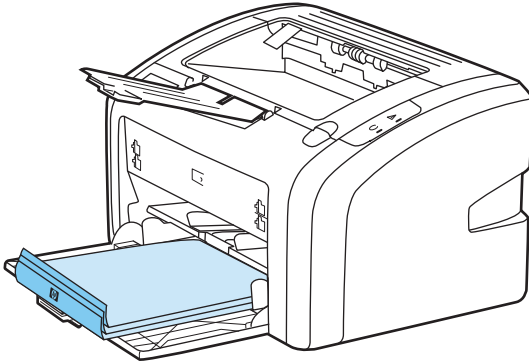
 **NOTE:** Not all printer features are available from all drivers or operating systems. See the printer properties (driver) online Help for information about availability of features for that driver.



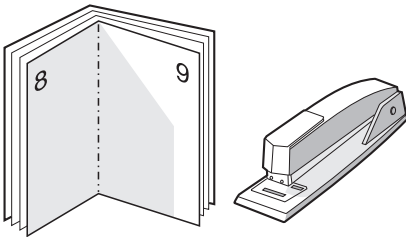
4. After side one has printed, gather the printed pages, turn the printed side down, and straighten the stack of paper.



5. Place the pages from side one back in the input tray. Side one should be facing down with the bottom edge feeding into the printer first.

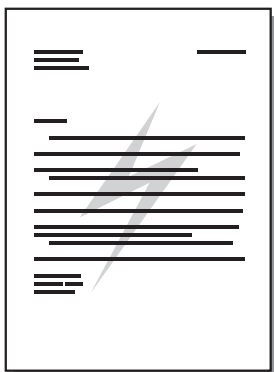


6. Print side two.
7. Fold and staple the pages.




## Printing watermarks

You can use the watermark option to print text "underneath" (in the background) of an existing document. For example, you might want to have large gray letters reading *Draft* or *Confidential* printed diagonally across the first page or all of the pages of a document.



1. From your software application, access the printer properties (or printing preferences in Windows 2000 and XP). See [Printer properties \(driver\) on page 8](#) for instructions.
2. On the **Effects** tab, select the watermark you want to use.

---

 **NOTE:** Not all printer features are available from all drivers or operating systems. See the printer properties (driver) online Help for information about availability of features for that driver.

---

3. Print the document.





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# 3 Maintenance

This chapter provides information on the following topics:

- [Cleaning the printer](#)
- [Changing the pickup roller](#)
- [Cleaning the pickup roller](#)
- [Changing the printer separation pad](#)
- [Redistributing toner](#)
- [Changing the print cartridge](#)

## Cleaning the printer

Clean the outside of the printer with a clean, damp cloth when necessary.

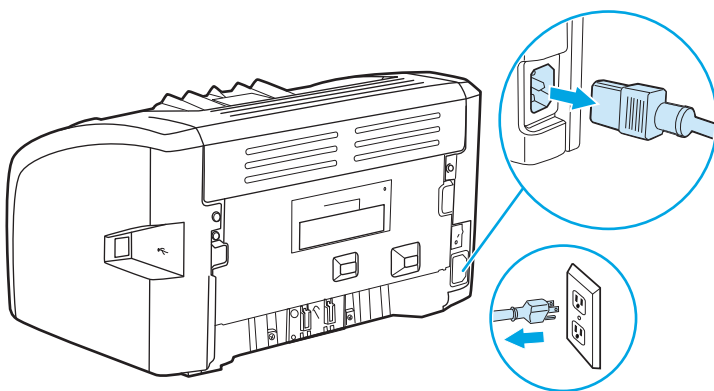
**⚠ CAUTION:** Do not use ammonia-based cleaners on or around the printer.

During the printing process, media, toner, and dust particles can accumulate inside the printer. Over time, this buildup can cause print quality problems, such as toner specks or smearing, and paper jams. To correct and prevent these types of problems, you can clean the print cartridge area and the printer media path.

### Cleaning the print cartridge area

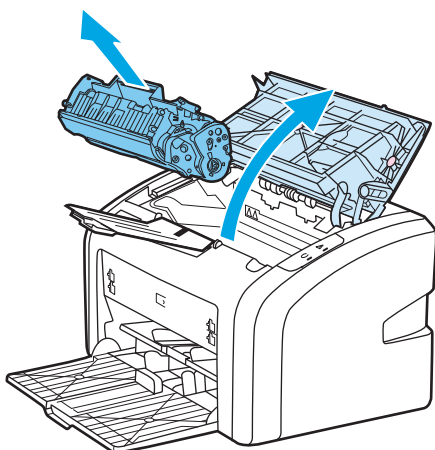
You do not need to clean the print cartridge area often. However, cleaning this area can improve the quality of your printed sheets.

1. Turn the printer off, and then unplug the power cord. Wait for the printer to cool.

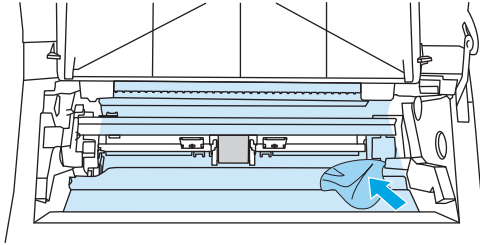


2. Open the print cartridge door, and remove the print cartridge.

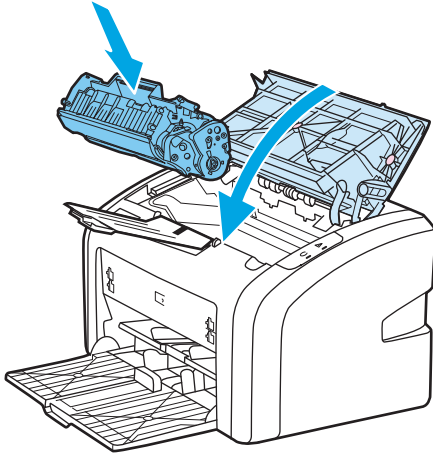
**⚠ CAUTION:** To prevent damage, do not expose the print cartridge to light. Cover the print cartridge if necessary. Also, do not touch the black sponge transfer roller inside the printer. By doing so, you can damage the printer.



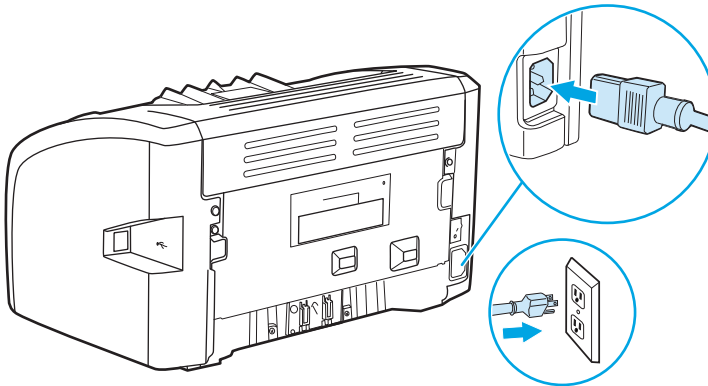
3. With a dry, lint-free cloth, wipe any residue from the media path area and the print cartridge cavity.



4. Replace the print cartridge, and close the print cartridge door.

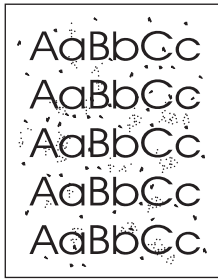


5. Plug the printer into the power outlet, and then turn on the printer.




## Cleaning the printer media path

If you are experiencing toner specks or dots on the printouts, you can use the HP LaserJet cleaning utility to remove excess media and toner particles that can accumulate on the fuser assembly and rollers. Cleaning the media path might extend the life of the printer.




---

 **NOTE:** For best results use a sheet of transparency. If you do not have any transparencies, you can use copier-grade media, 70 to 90 g/m<sup>2</sup> (18 to 24 lb), with a smooth surface.

---

1. Make sure that the printer is idle and the Ready light is on.
2. Load the media in the input tray.
3. Print a cleaning page. Access the printer properties (or printing preferences in Windows 2000 and XP). See [Printer properties \(driver\) on page 8](#) for instructions.

---

 **NOTE:** The cleaning process takes approximately 3 minutes. The cleaning page will stop periodically during the cleaning process. Do not turn the printer off until the cleaning process has finished. You might need to repeat the cleaning process several times to thoroughly clean the printer.

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## Changing the pickup roller

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

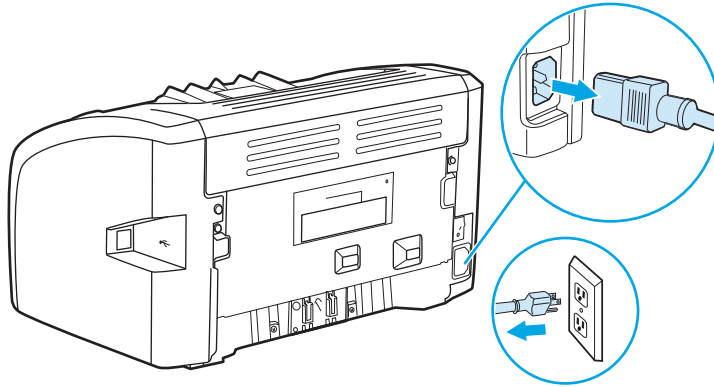
If the printer regularly mispicks (no media feeds through), you might need to change or clean the pickup roller. See [Ordering supplies on page 112](#) to order a new pickup roller.

---

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

---

1. Turn the printer off, and then unplug the power cord from the printer. Wait for the printer to cool.

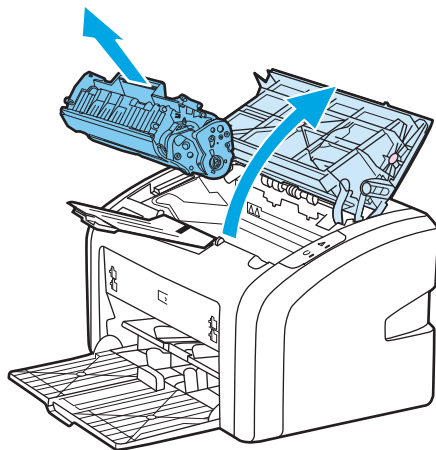


2. Open the print cartridge door, and remove the print cartridge.

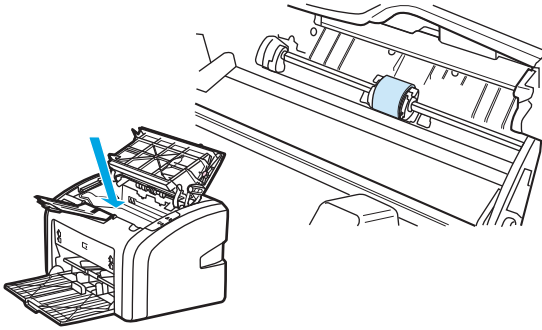
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**⚠ CAUTION:** To prevent damage to the print cartridge, minimize its exposure to direct light. Cover the print cartridge with a sheet of paper.

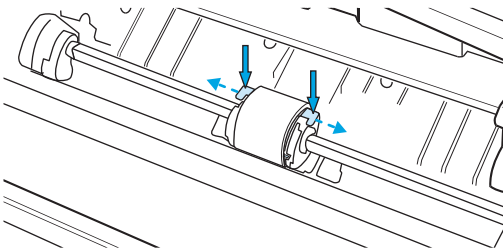
---



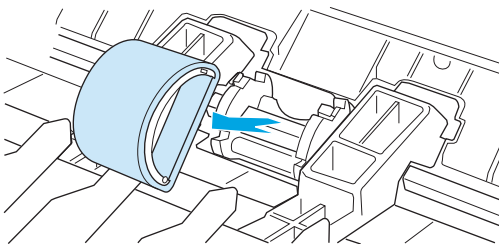
3. Find the pickup roller.



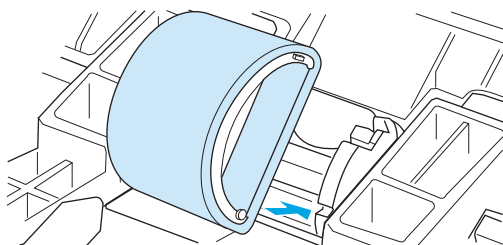
4. Release the small, white tabs on either side of the pickup roller, and rotate the pickup roller toward the front.



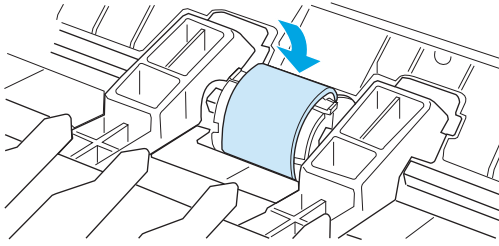
5. Gently pull the pickup roller up and out.



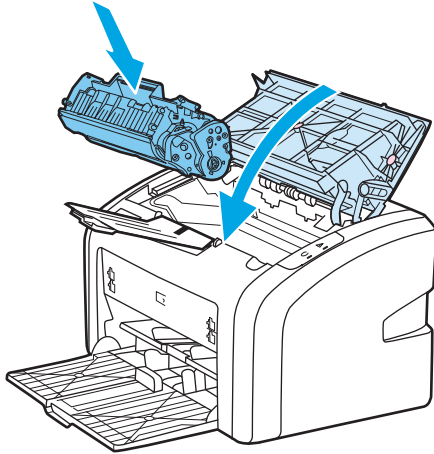
6. Position the new pickup roller in the slot. The circular and rectangular slots on each side will prevent you from installing the roller incorrectly.



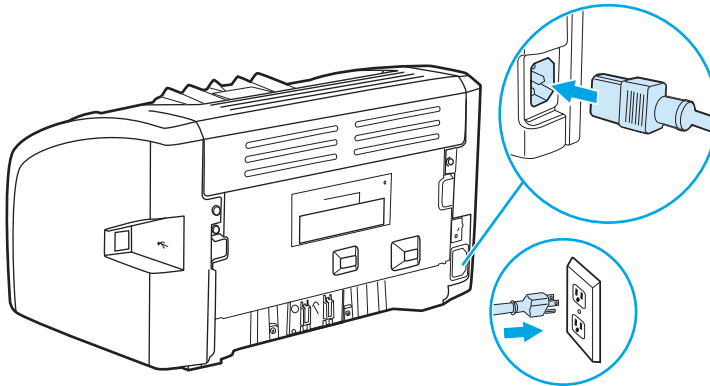
7. Rotate the top of the new pickup roller away from you until both sides snap into place.



8. Reinstall the print cartridge, and close the print cartridge door.



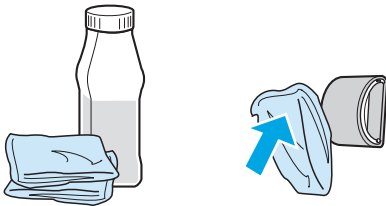
9. Plug the printer into the power outlet, and then turn on the printer.



## Cleaning the pickup roller

If you want to clean the pickup roller rather than replace it, follow the instructions below:

1. Remove the pickup roller as described in steps 1 through 5 of [Changing the pickup roller on page 43](#).
2. Dab a lint-free cloth in isopropyl alcohol, and scrub the roller.

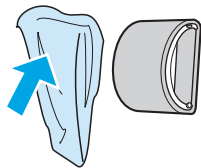


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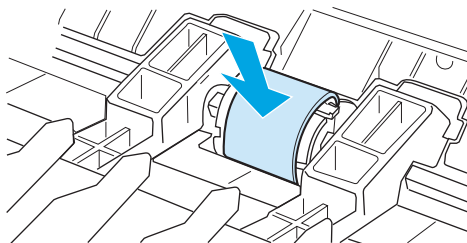
**⚠ WARNING!** Alcohol is flammable. Keep the alcohol and cloth away from an open flame. Before you close the printer and plug in the power cord, allow the alcohol to dry completely.

---

3. Using a dry, lint-free cloth, wipe the pickup roller to remove loosened dirt.




4. Allow the pickup roller to dry completely before you reinstall it in the printer (see [Changing the pickup roller on page 43](#)).



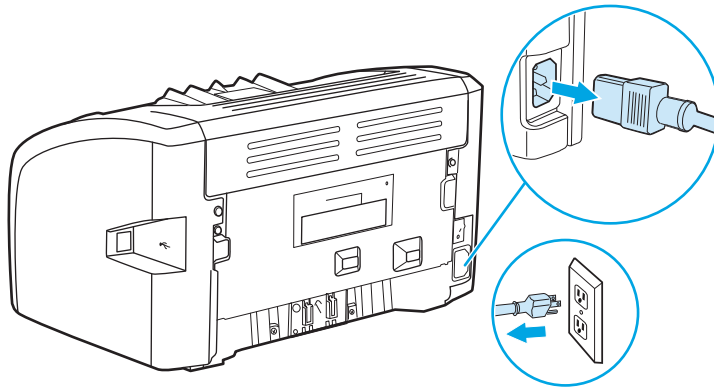


## Changing the printer separation pad

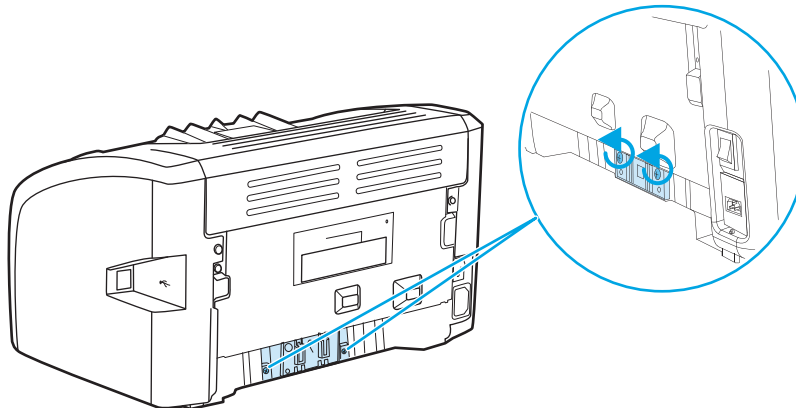
Normal use with good media causes wear. The use of poor media might require more frequent replacement of the separation pad. If the printer regularly pulls multiple sheets of media at a time, you might need to change the separation pad. See [Ordering supplies on page 112](#) to order a new printer separation pad.

 **NOTE:** Before you change the separation pad, clean the pickup roller. See [Cleaning the pickup roller on page 46](#).

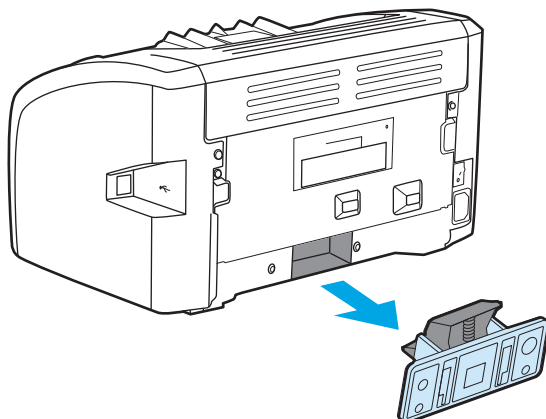
1. Turn the printer off, and then unplug the power cord from the printer. Wait for the printer to cool.



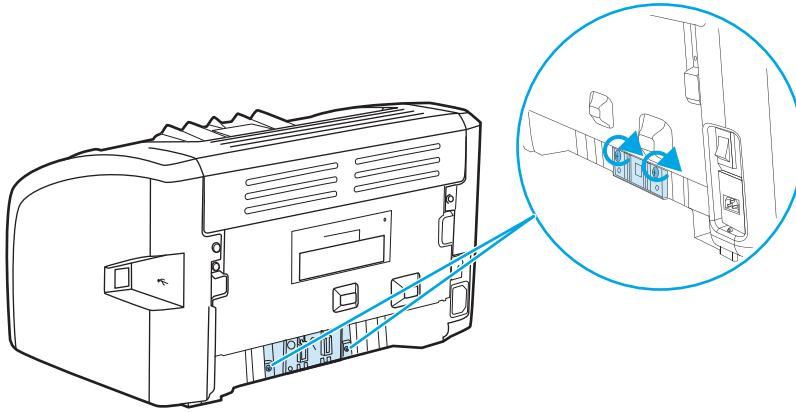
2. At the back of the printer, unscrew the two screws holding the separation pad in place.



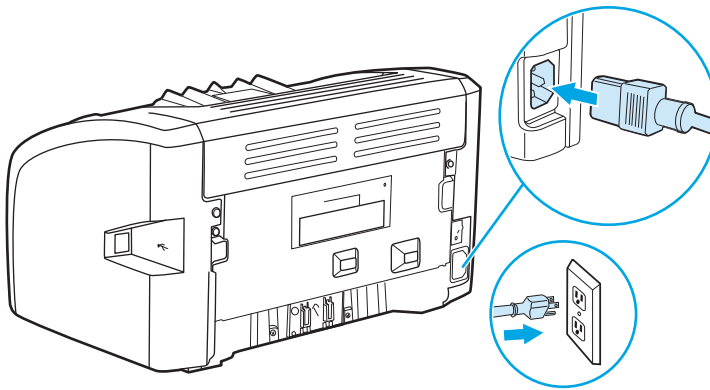
3. Remove the separation pad.



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



5. Plug the printer into the power outlet, and turn on the printer.



## Redistributing toner

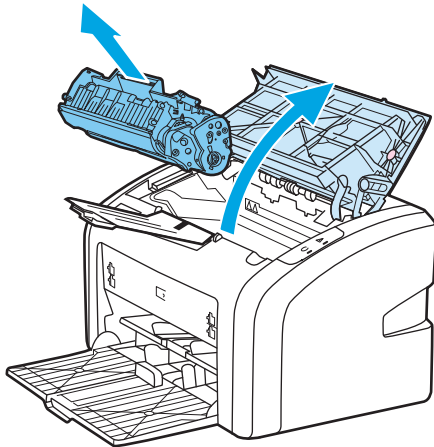
When toner is low, faded or light areas appear on the printed page. You might be able to temporarily improve print quality by redistributing the toner, which means that you might be able to finish the current print job before replacing the print cartridge.

---

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

---

1. Open the print cartridge door, and remove the print cartridge from the printer.

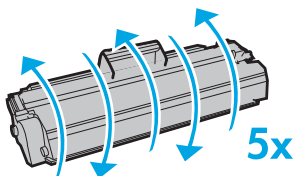


2. To redistribute the toner, gently rock the print cartridge from front to back.

---

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

---

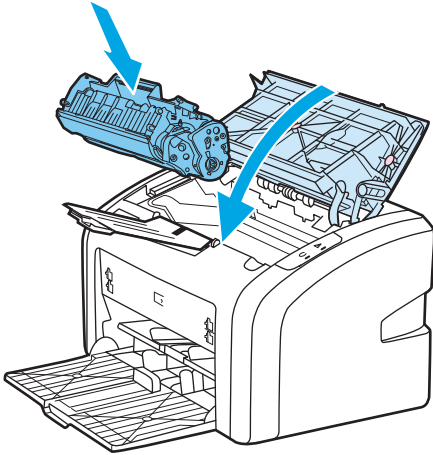


---

**⚠ 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 printer, and close the print cartridge door.

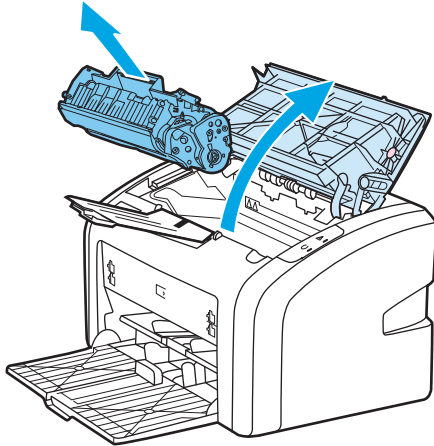


If the print is still light, install a new print cartridge. See [Changing the print cartridge on page 51](#) for instructions.

## Changing the print cartridge

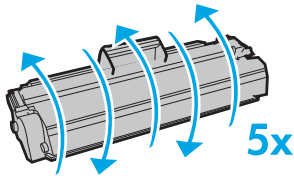
1. Open the print cartridge door, and remove the old print cartridge. See the recycling information inside the print cartridge box.

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

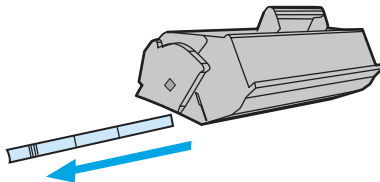


2. Remove the new print cartridge from the packaging, and gently rock the print cartridge from front to back to distribute the toner evenly inside the cartridge.

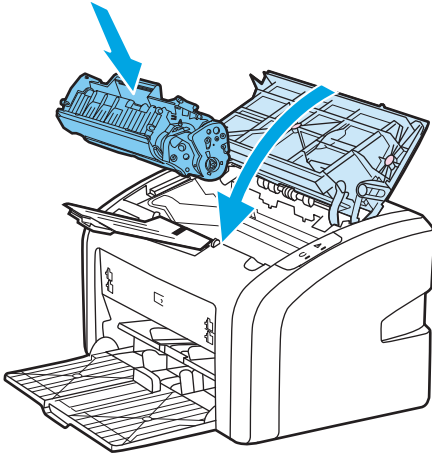
**⚠ CAUTION:** To prevent damage to the print cartridge, hold the print cartridge at each end.



3. Pull the tab until all the tape is removed from the print cartridge. Put the tab in the print cartridge box to return for recycling.



4. Insert the new print cartridge in the printer, making sure that the print cartridge is in position. Close the print cartridge door.



---

**⚠ 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.*

---

---

# 4 Problem solving

This chapter provides information on the following topics:

- [Finding the solution](#)
- [Status light patterns](#)
- [Paper handling problems](#)
- [Printed page is different than what appeared on screen](#)
- [Printer software problems](#)
- [Improving print quality](#)
- [Clearing jams](#)

## Finding the solution

You can use this section to find the solution to common printer problems.

### Step 1: Is the printer set up correctly?

- Is the printer plugged into a power outlet that is known to work?
- Is the on/off switch in the on position?
- Is the print cartridge properly installed? See [Changing the print cartridge on page 51](#).
- Is paper properly loaded in the input tray? See [Loading media into the input trays on page 24](#).

---

<b>Yes</b>	If you answered yes to the questions above, go to <a href="#">Step 2: Is the Ready light on? on page 54</a>
<b>No</b>	If the printer will not turn on, <a href="#">Contact HP support on page 55</a> .

---

### Step 2: Is the Ready light on?

Do the control panel lights look like this picture?



**NOTE:** See [Printer control panel on page 5](#) for a description of the lights on the control panel.

---

<b>Yes</b>	Go to <a href="#">Step 3: Can you print a Printer Test page? on page 54</a>
<b>No</b>	If the control panel lights do not look like the picture above, see <a href="#">Status light patterns on page 56</a> .  If you are unable to resolve the problem, <a href="#">Contact HP support on page 55</a> .

---

### Step 3: Can you print a Printer Test page?

Print a Printer Test page.

---

<b>Yes</b>	If the Demo page printed, go to <a href="#">Step 4: Is the print quality acceptable? on page 55</a>
<b>No</b>	If no paper came out, see <a href="#">Paper handling problems on page 58</a> .  If you are unable to resolve the problem, <a href="#">Contact HP support on page 55</a> .

---



## Step 4: Is the print quality acceptable?

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<b>Yes</b>	If the print quality is acceptable, go to <a href="#">Step 5: Is the printer communicating with the computer? on page 55</a>
<b>No</b>	<p>If the print quality is poor, see <a href="#">Improving print quality on page 63</a>.</p> <p>Verify that the print settings are correct for the media you are using. See <a href="#">Choosing paper and other media on page 22</a> for information on adjusting the settings for various types of media.</p> <p>If you are unable to resolve the problem, <a href="#">Contact HP support on page 55</a>.</p>

---

## Step 5: Is the printer communicating with the computer?

Try printing a document from a software application.

---

<b>Yes</b>	If the document prints, go to <a href="#">Step 6: Does the printed page look like you expected? on page 55</a>
<b>No</b>	<p>If the document does not print, see <a href="#">Printer software problems on page 62</a>.</p> <p>If you are unable to resolve the problem, <a href="#">Contact HP support on page 55</a>.</p>

---

## Step 6: Does the printed page look like you expected?

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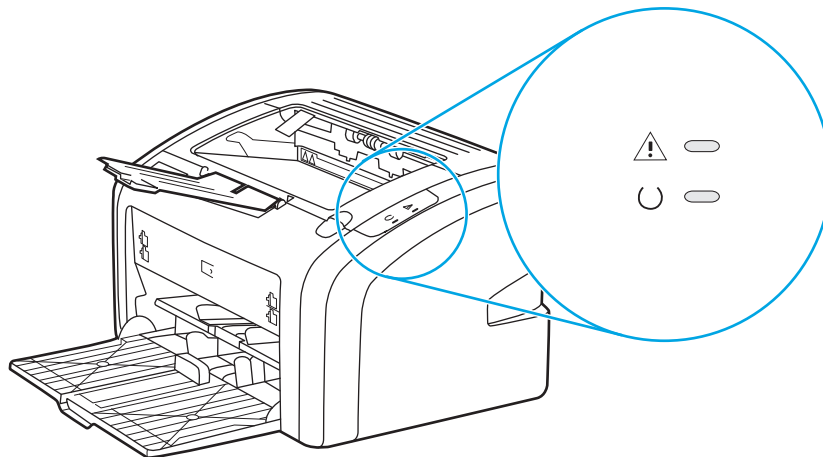
<b>Yes</b>	The problem should be resolved. If it is not resolved, <a href="#">Contact HP support on page 55</a> .
<b>No</b>	<p>See <a href="#">Printed page is different than what appeared on screen on page 60</a>.</p> <p>If you are unable to resolve the problem, <a href="#">Contact HP support on page 55</a>.</p>

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## Contact HP support

- In the United States, see <http://www.hp.com/support/lj1020/> for the HP LaserJet 1020 printer.
- In other locations, see <http://www.hp.com>.

# Status light patterns







**Table 4-1 Light status legend**

	Symbol for "light off"
	Symbol for "light on"
	Symbol for "light blinking"

**Table 4-2 Control panel light message**

Light status	State of the printer	Action
	Ready	No action is necessary.
	The printer is ready to print.	
	Processing data The printer is receiving or processing data.	Wait for the job to print. To cancel the current job, press the <a href="#">Cancel</a> button.
	Cleaning mode A Cleaning page or a Printer Test page is printing.	Wait until the Cleaning page is finished printing and the printer is in the Ready state. This could take up to two minutes. Wait until the Printer Test page is finished printing and the printer is in Ready state.
	Out of memory The printer is out of memory.	The page you are printing might be too complex for the printer's memory capacity. Try lowering the resolution. See <a href="#">Understanding print quality settings on page 16</a> for more information.

**Table 4-2 Control panel light message (continued)**

Light status	State of the printer	Action
	Attention: door open, media out, no print cartridge, or media jam  This printer is in an error state that requires operator intervention.	Check the following: <ul style="list-style-type: none"><li>• The print cartridge door is completely closed.</li><li>• Media is loaded. See <a href="#">Loading media into the input trays on page 24</a> for instructions.</li><li>• The print cartridge is correctly installed in the printer. See <a href="#">Changing the print cartridge on page 51</a> for instructions.</li><li>• There is no media jam. See <a href="#">Clearing jams on page 68</a> for instructions.</li></ul>
	Printer initialization  A printer initialization is taking place.	No action is necessary.
	Fatal error  All lights are on.	Unplug the printer for 30 minutes, and then plug the printer back in power outlet.  If the printer still has an error, contact HP Support. See <a href="#">Contact HP support on page 55</a> .
	All lights are off.	Make sure that there is power.  Unplug both ends of the power cord, and then plug the power cord back into the printer and the power outlet.

Return to [Finding the solution on page 54](#).

## Paper handling problems

Choose the item that best describes the problem:

- [Media jam on page 58](#)
- [Print is skewed \(crooked\) on page 58](#)
- [More than one sheet of media feeds through the printer at one time on page 58](#)
- [Printer does not pull media from the media input tray on page 58](#)
- [Printer curled the media on page 59](#)
- [Print job is extremely slow on page 59](#)

### Media jam

- See [Clearing jams on page 68](#) for more information.
- Make sure that you are printing with media that meets specifications. See [Printer media considerations on page 11](#) for more information.
- Do not print on used paper.
- Make sure that you are printing with media that is not wrinkled, folded, or damaged.
- Make sure that the printer is clean. See [Cleaning the printer on page 40](#) for more information.

### Print is skewed (crooked)

A small amount of skew is normal and might become obvious when using preprinted forms.

- See [Page skew on page 66](#) for more information.
- Adjust the media guides to the width and length of the media that you are using and try reprinting. See [Media paths on page 6](#) or [Loading media into the input trays on page 24](#) for more information.

### More than one sheet of media feeds through the printer at one time

- The media input tray might be too full. See [Loading media into the input trays on page 24](#) for more information.
- Make sure that the media is not wrinkled, folded, or damaged.
- Try paper from a new ream. Do not fan the paper before loading it into the input tray.
- The printer separation pad might be worn. See [Changing the printer separation pad on page 47](#) for more information.

### Printer does not pull media from the media input tray

- Make sure that the printer is not in manual feed mode.
- Make sure that the media guides are adjusted properly.
- The pickup roller might be dirty or damaged. See [Cleaning the pickup roller on page 46](#) or [Changing the pickup roller on page 43](#) for instructions.

## Printer curled the media

- See [Curl or wave on page 66](#) for more information.
- See [Media paths on page 6](#) or [Choosing paper and other media on page 22](#) for more information.

## Print job is extremely slow

The maximum speed of the printer is up to 14 ppm for A4 media and 15 ppm for letter media for the HP LaserJet 1020 printer. Your print job might be very complex. Try the following:

- Reduce the complexity of your document (for example, reduce the number of multiple graphics).
- Access the printer properties in the printer driver. See [Printer properties \(driver\) on page 8](#) for instructions. Set the media type to plain paper.



---

**NOTE:** This may cause toner to fuse improperly if you are using heavy media.

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- Narrow media or heavy media will slow printing. Use normal media.
- Print speed is based on computer processor speed, the amount of memory, and the amount of hard disk space available on your computer. Try increasing these components.

Return to [Finding the solution on page 54](#).

## Printed page is different than what appeared on screen

Choose the item that best describes the problem:

- [Garbled, incorrect, or incomplete text on page 60](#)
- [Missing graphics or text, or blank pages on page 60](#)
- [Page format is different than on another printer on page 61](#)
- [Graphics quality on page 61](#)



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**NOTE:** To preview a print job, use the **Print Preview** option in the software application (if available).

---

### Garbled, incorrect, or incomplete text

- If a specific file prints garbled text, there might be a problem with that specific file. If a specific application prints garbled text, there might be a problem with that application. Make sure that the appropriate printer driver is selected.
- There might be a problem with your software application. Try printing from another software application.
- The USB cable might be loose or defective. Try the following:



---

**WARNING!** Before you connect the USB cable to the printer, always unplug the printer to prevent damage to the printer.

---

- Disconnect the cable and reconnect it at both ends.
- Try printing a job that you know works.
- If possible, attach the cable and printer to another computer, and try printing a job that you know works.
- Turn off the printer and the computer. Remove the USB cable, and inspect both ends of the cable for damage. Reconnect the USB cable, making sure that the connections are tight. Make sure that the printer is directly connected to the computer. Remove any switchboxes, tape backup drives, security keys, or any other devices that are attached between the USB port on the computer and the printer. These devices can sometimes interfere with communication between the computer and the printer. Restart the printer and the computer.

### Missing graphics or text, or blank pages

- Make sure that your file does not contain blank pages.
- The sealing tape might still be in the print cartridge. Remove the print cartridge, and pull the tab on the end of the cartridge until the entire length of the tape is removed. Reinstall the print cartridge. See [Changing the print cartridge on page 51](#) for instructions.
- The graphic settings in the printer properties might not be correct for the type of job that you are printing. Try a different graphic setting in the printer properties. See [Printer properties \(driver\) on page 8](#) for more information.
- Clean the printer, particularly the contacts between the print cartridge and the power supply.

## Page format is different than on another printer

If you used an older or different printer driver (printer software) to create the document or the printer properties settings in the software are different, the page format might change when you try to print using your new printer driver or settings. To help eliminate this problem, try the following:

- Create documents and print them using the same printer driver (printer software) and printer properties settings regardless of which HP LaserJet printer you use to print them.
- Change the resolution, paper size, font settings, and other settings. See [Printer properties \(driver\) on page 8](#) for more information.

## Graphics quality

The graphics settings might be unsuitable for your print job. Check the graphic settings, such as resolution, in the printer properties and adjust them as necessary. See [Printer properties \(driver\) on page 8](#) for more information.



**NOTE:** Some resolution might be lost when converting from one graphics format to another.

---

Return to [Finding the solution on page 54](#).

# Printer software problems

Table 4-3 Printer software problems

Problem	Solution
A printer driver for the HP LaserJet 1020 printer is not visible in the <b>Printer</b> folder.	<ul style="list-style-type: none"><li>Restart the computer.</li><li>Reinstall the printer software. In the Windows task bar, click <b>Start</b>, select <b>Programs</b>, select <b>HP</b>, select <b>HP LaserJet 1020 series</b>, and click <b>Uninstall HP LaserJet 1020 series</b>. Turn the printer off. Install the printer software from the CD. Turn the printer back on. <b>NOTE:</b> Close any applications that are running. To close an application that has an icon in the system tray, right-click the icon, and select <b>Close</b> or <b>Disable</b>.</li><li>Try plugging the USB cable into a different USB port on the computer.</li><li>If you are trying to print to a shared printer, in the Windows task bar, click <b>Start</b>, select <b>Settings</b>, and select <b>Printers</b>. Double-click the Add Printer icon. Follow the instructions in the Add Printer Wizard.</li></ul>
An error message was displayed during the software installation.	<ul style="list-style-type: none"><li>Restart the computer.</li><li>Reinstall the printer software. In the Windows task bar, click <b>Start</b>, select <b>Programs</b>, select <b>HP</b>, select <b>HP LaserJet 1020 series</b>, and click <b>Uninstall HP LaserJet 1020 series</b>. Turn the printer off. Install the printer software from the CD. Turn the printer back on. <b>NOTE:</b> Close any applications that are running. To close an application that has an icon in the task bar, right-click the icon, and select <b>Close</b> or <b>Disable</b>.</li><li>Check the amount of free space on the drive where you are installing the printer software. If necessary, free up as much space as you can, and reinstall the printer software.</li><li>If necessary, run the Disk Defragmenter, and reinstall the printer software.</li></ul>
The printer is in Ready mode, but nothing prints.	<ul style="list-style-type: none"><li>Restart the computer.</li><li>Verify that all of the cables are properly seated and within specifications. This includes the USB and power cables. Try a new cable.</li><li>Reinstall the printer software. In the Windows task bar, click <b>Start</b>, select <b>Programs</b>, select <b>HP</b>, select <b>HP LaserJet 1020 series</b>, and click <b>Uninstall HP LaserJet 1020 series</b>. Turn the printer off. Install the printer software from the CD. Turn the printer back on. <b>NOTE:</b> Close any applications that are running. To close an application that has an icon in the task bar, right-click the icon, and select <b>Close</b> or <b>Disable</b>.</li></ul>

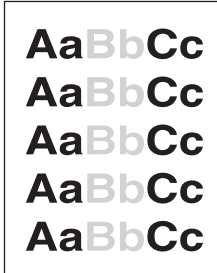
Return to [Finding the solution on page 54](#).



# Improving print quality

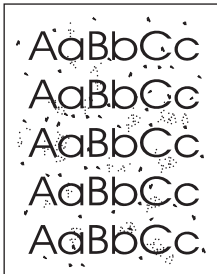
This section provides information about identifying and correcting print defects.

## Light or faded print



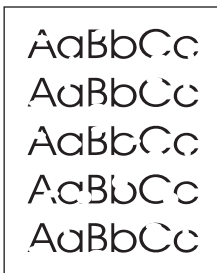
- The toner supply is low. See [Redistributing toner on page 49](#) for more information.
- The media might not meet HP's media specifications (for example, the media is too moist or too rough). See [Printer media considerations on page 11](#) for more information.
- If the whole page is light, the print density adjustment is too light or EconoMode might be turned on. Adjust the print density, and disable EconoMode in the printer properties. See [Saving toner on page 114](#) for more information.

## Toner specks



- The media might not meet HP's media specifications (for example, the media is too moist or too rough). See [Printer media considerations on page 11](#) for more information.
- The printer might need to be cleaned. See [Cleaning the printer on page 40](#) or [Cleaning the printer media path on page 41](#) for instructions.

## Dropouts

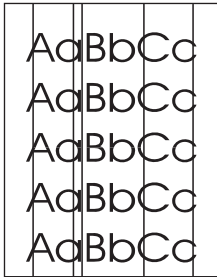


- A single sheet of media might be defective. Try reprinting the job.
- The media's moisture content is uneven or the media has moist spots on its surface. Try printing with new media. See [Printer media considerations on page 11](#) for more information.
- The media lot is bad. The manufacturing processes can cause some areas to reject toner. Try a different type or brand of media.
- The print cartridge might be defective. See [Changing the print cartridge on page 51](#) for more information.



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

## Vertical lines



- The photosensitive drum inside the print cartridge has probably been scratched. Install a new HP print cartridge. See [Changing the print cartridge on page 51](#) for instructions.

## Gray background



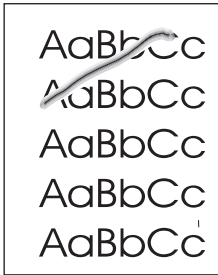
- Decrease the print density setting through printer properties. This decreases the amount of background shading. See [Printer properties \(driver\) on page 8](#).
- Change the media to a lighter basis weight. See [Printer media considerations on page 11](#) for more information.
- Check the printer's environment. Very dry (low humidity) conditions can increase the amount of background shading.
- Install a new HP print cartridge. See [Changing the print cartridge on page 51](#) for instructions.

## Toner smear



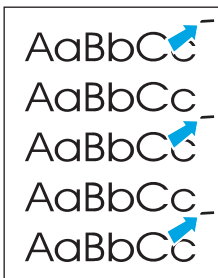
- If toner smears appear on the leading edge of the media, the media guides might be dirty. Wipe the media guides with a dry, lint-free cloth. See [Cleaning the printer on page 40](#) for more information.
- Check the media type and quality.
- Install a new HP print cartridge. See [Changing the print cartridge on page 51](#) for instructions.
- The fuser temperature might be too low. In your printer driver, make sure that the appropriate media type is selected.

## Loose toner



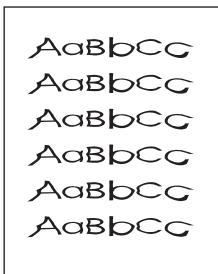
- Clean the inside of the printer. See [Cleaning the printer on page 40](#) for instructions.
- Check the media type and quality. See [Printer media considerations on page 11](#) for more information.
- Install a new HP print cartridge. See [Changing the print cartridge on page 51](#) for instructions.
- In your printer driver, make sure that the appropriate media type is selected.
- Plug the printer directly into an AC outlet instead of into a power strip.

## Vertical repetitive defects



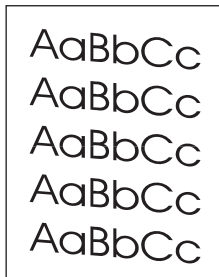
- The print cartridge might be damaged. If a repetitive mark occurs at the same spot on the page, install a new HP print cartridge. See [Changing the print cartridge on page 51](#) for instructions.
- The internal parts might have toner on them. See [Cleaning the printer on page 40](#) for more information. 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 that the appropriate media type is selected.

## Misformed characters



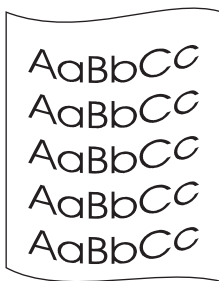
- If characters are improperly formed, producing hollow images, the media stock might be too slick. Try a different media. See [Printer media considerations on page 11](#) for more information.
- If characters are improperly formed, producing a wavy effect, the printer might need service. Print a Printer Test page. If the characters are improperly formed, contact an HP-authorized dealer or service representative.

## Page skew



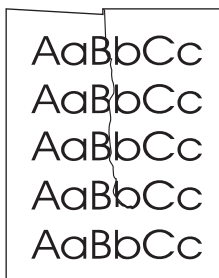
- Make sure that the media is loaded correctly and the media guides are not too tight or too loose against the media stack. See [Loading media into the input trays on page 24](#) for more information.
- The input bin might be too full. See [Loading media into the input trays on page 24](#) for more information.
- Check the media type and quality. See [Printer media considerations on page 11](#) for more information.

## Curl or wave



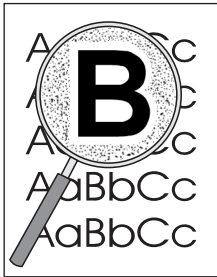
- Check the media type and quality. Both high temperature and humidity cause media to curl. See [Printer media considerations on page 11](#) for more information.
- The media might have been in the input tray too long. Turn over the stack of media in the tray. Also, try rotating the media 180° in the input tray.
- The fuser temperature might be too high. In your printer driver, make sure that 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. See [Loading media into the input trays on page 24](#) for more information.
- Check the media type and quality. See [Printer media considerations on page 11](#) for more information.
- Turn over the stack of media in the tray. Also, try rotating the media 180° in the input tray.
- 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 media might be resisting the toner. (A small amount of toner scatter is normal for laser printing.) Try a different media type. See [Printer media considerations on page 11](#) for more information.
- Turn over the stack of media in the tray.
- Use media designed for laser printers. See [Printer media considerations on page 11](#) for more information.

## Water droplets on bottom edge




**NOTE:** Moisture in the printer is condensing on the fuser assembly and dropping onto the media. In excessively hot and humid areas, media retains moisture. Water droplets do not damage the printer.

- Use different media.
- Store media in an airtight container to minimize absorption of moisture.

Return to [Finding the solution on page 54](#).

## Clearing jams

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 **CAUTION:** To prevent damage to the printer when clearing jams, including jams in the output bin, always open the print cartridge door and remove the print cartridge. Keep the door open and the cartridge out until the jam has been cleared. Opening the print cartridge door and removing the print cartridge relieves tension on the printer rollers, which prevents damage to the printer and makes the removal of jammed pages easier.


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Occasionally, media becomes jammed during a print job. You are notified of a media jam by an error from the software and the printer control panel lights. See [Status light patterns on page 56](#) for more information.

The following are some of the causes of media jams:

- The input trays are loaded improperly or are too full. See [Loading media into the input trays on page 24](#) for more information.

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


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- The media does not meet HP specifications. See [Printer media considerations on page 11](#) for more information.

### Typical media jam locations

- **Print cartridge area:** See [Removing a jammed page on page 68](#) for instructions.
- **Input tray areas:** If the page is still sticking out of the input tray, gently try to remove it from the input tray without tearing the page. If you feel resistance, see [Removing a jammed page on page 68](#) for instructions.
- **Output path:** If the page is sticking out of the output bin, see [Removing a jammed page on page 68](#) for instructions.


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 **NOTE:** There might be loose toner in the printer after a media jam. This toner clears up after a few sheets are printed.

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### Removing a jammed page

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 **CAUTION:** Media jams might result in loose toner on the page. If you get any toner on your clothes, wash them in cold water. *Hot water will permanently set the toner into the fabric.*

**CAUTION:** To prevent damage to the printer when clearing jams, including jams in the output bin, always open the print cartridge door and remove the print cartridge.

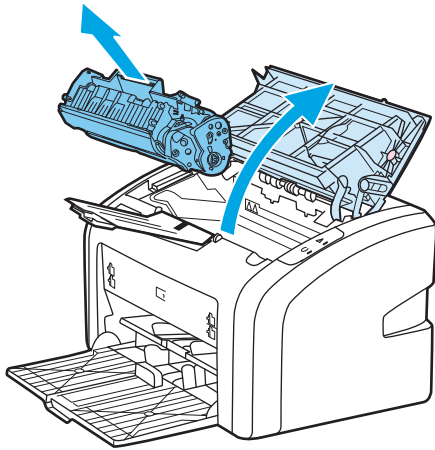
---

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

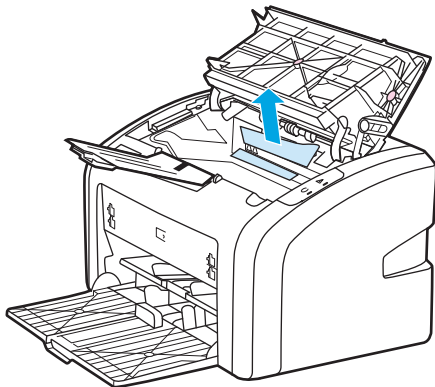
---

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

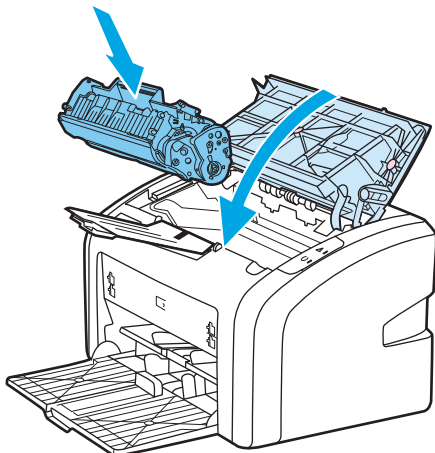
---




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



3. When you have removed the jammed media, replace the print cartridge, and close the print cartridge door.



After clearing a media jam, you might need to turn the printer off and turn it back on again.

 **NOTE:** When you add new media, remove all of the media from the input tray and straighten the stack of new media.

Return to [Finding the solution on page 54](#).





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# A Printer specifications

This appendix provides information on the following topics:

- [Environmental specifications](#)
- [Acoustic emissions](#)
- [Electrical specifications](#)
- [Physical specifications](#)
- [Printer capacities and ratings](#)
- [Memory specifications](#)

# Environmental specifications

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## Operating environment

Install in a well-ventilated, dust-free area.

Printer plugged into an AC outlet:

- Temperature: 10°C to 32.5°C (50°F to 90.5°F)
  - Humidity: 20% to 80% (no condensation)
- 

## Storage environment

Printer unplugged from an AC outlet:

- Temperature: 0°C to 40°C (32°F to 104°F)
  - Humidity: 10% to 80% (no condensation)
- 



**NOTE:** Values are current as of April 1, 2004. Values are subject to change without notice. See <http://www.hp.com/support/lj1020/> for current information.

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# Acoustic emissions

**Table A-1 Acoustic emissions<sup>1, 2</sup>**

<b>Sound power level</b>	<b>Declared per ISO 9296</b>
Printing <sup>3</sup>	$L_{WAd} = <6.2$ Bels (A) and 62dB (A)
Ready (PowerSave)	Inaudible
<b>Sound pressure level, bystander position</b>	<b>Declared Per ISO 9296</b>
Printing <sup>3</sup>	$L_{WAd} = \leq 4.9$ Bels (A) and 49dB (A)
Ready (PowerSave)	Inaudible

<sup>1</sup> Values are subject to change without notice. See <http://www.hp.com/support/lj1020/> for current information.

<sup>2</sup> Configuration tested: HP LaserJet 1020 base unit, standard tray, A4 paper, and simplex continuous print.

<sup>3</sup> HP LaserJet 1020 speed is 14 ppm for A4 media and 15 ppm for letter media.

## Electrical specifications

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

	110-volt models	230-volt models
Power requirements	110-127v (+/-10%)	220v-240v (+/-10%)
	50/60 Hz (+/-2 Hz)	50/60 Hz (+/-2 Hz)
Rated current	3.5 amps	2.0 amps

**Table A-2 Power consumption (average, in watts)<sup>1, 2</sup>**

Product model	Printing <sup>4</sup>	Ready <sup>3</sup>	Off
HP LaserJet 1020	250 W	2 W	0 W

<sup>1</sup> Values are subject to change without notice. See <http://www.hp.com/support/lj1020/> for current information.

<sup>2</sup> Power reported is the highest value measured for monochrome printing using all standard voltages.

<sup>3</sup> The default time from Ready mode to PowerSave mode and the recovery time from PowerSave mode to the start of printing is negligible (less than 10 seconds) because of the instant-on fusing.

<sup>4</sup> HP LaserJet 1020 speed is 14 ppm for A4 media and 15 ppm for letter media.

<sup>5</sup> The heat dissipation in Ready mode is 20 BTU/hour.

## Physical specifications

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Dimensions	<ul style="list-style-type: none"><li>• Width: 370 mm (14.6 inches)</li><li>• Depth: 242 mm (9.5 inches)</li><li>• Height: 209 mm (8.2 inches)</li></ul>
Weight (2,000-page cartridge installed)	5.8 kg (12.8 lb)

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**NOTE:** Values are current as of April 1, 2004. Values are subject to change without notice. See <http://www.hp.com/support/lj1020/> for current information.

---

## Printer capacities and ratings

Print speed	<ul style="list-style-type: none"><li>• 14 ppm for A4 media and 15 ppm for letter media</li><li>• First page out in as low as 10 seconds</li></ul>
Main input tray capacity	150 sheets of regular weight 75 g/m <sup>2</sup> (20 lb) paper
Priority feed slot capacity	1 sheet of media up to 163 g/m <sup>2</sup> (43 lb)
Top (face down) output bin capacity	100 sheets of regular weight 75 g/m <sup>2</sup> (20 lb) paper
Minimum paper size	76 x 127 mm (3 x 5 inches)
Maximum paper size	216 x 356 mm (8.5 x 14 inches)
Media weight	Output bin: 60 to 105 g/m <sup>2</sup> (16 to 28 lbs)
Base memory	2 MB of RAM
Print resolution	<ul style="list-style-type: none"><li>• 600 x 600 dpi with HP Resolution Enhancement technology (REt)</li><li>• 1200 dpi effective output quality (600 x 600 x 2 dpi with HP Resolution Enhancement technology [REt])</li></ul>
Duty cycle	<ul style="list-style-type: none"><li>• 8,000 single-sided pages per month (maximum)</li><li>• 1,000 single-sided pages per month (average)</li></ul>

## Memory specifications

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Base memory	2 MB RAM
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## B Service and support

- [HP limited warranty statement](#)
- [HP's Premium Protection Warranty: LaserJet toner cartridge limited warranty statement](#)
- [HP policy on non-HP supplies](#)
- [HP anticounterfeit Web site](#)
- [Data stored on the toner cartridge](#)
- [End User License Agreement](#)
- [Customer self-repair warranty service](#)
- [Customer support](#)

## HP limited warranty statement

HP PRODUCT	DURATION OF LIMITED WARRANTY
HP LaserJet 1020 printer	One-year limited warranty

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

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

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

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

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

TO THE EXTENT ALLOWED BY LOCAL LAW, THE ABOVE WARRANTIES ARE EXCLUSIVE AND NO OTHER WARRANTY OR CONDITION, WHETHER WRITTEN OR ORAL, IS EXPRESSED OR IMPLIED AND HP SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY, SATISFACTORY QUALITY, AND FITNESS FOR A PARTICULAR PURPOSE. Some countries/regions, states or provinces do not allow limitations on the duration of an implied warranty, so the above limitation or exclusion might not apply to you. This warranty gives you specific legal rights and you might also have other rights that vary from country/region to country/region, state to state, or province to province.

HP's limited warranty is valid in any country/region or locality where HP has a support presence for this product and where HP has marketed this product. The level of warranty service you receive may vary according to local standards. HP will not alter form, fit or function of the product to make it operate in a country/region for which it was never intended to function for legal or regulatory reasons.

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

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

## UK, Ireland, and Malta

The HP Limited Warranty is a commercial guarantee voluntarily provided by HP. The name and address of the HP entity responsible for the performance of the HP Limited Warranty in your country/region is as follows:

**UK:** HP Inc UK Limited, Cain Road, Amen Corner, Bracknell, Berkshire, RG12 1HN

**Ireland:** Hewlett-Packard Ireland Limited, Liffey Park Technology Campus, Barnhall Road, Leixlip, Co.Kildare

**Malta:** Hewlett-Packard Europe B.V., Amsterdam, Meyrin Branch, Route du Nant-d'Avril 150, 1217 Meyrin, Switzerland

**United Kingdom:** The HP Limited Warranty benefits apply in addition to any legal rights to a guarantee from seller of nonconformity of goods with the contract of sale. These rights expire six years from delivery of goods for products purchased in England or Wales and five years from delivery of goods for products purchased in Scotland. However various factors may impact your eligibility to receive these rights. For further information, please consult the following link: Consumer Legal Guarantee ([www.hp.com/go/eu-legal](http://www.hp.com/go/eu-legal)) or you may visit the European Consumer Centers website ([http://ec.europa.eu/consumers/solving\\_consumer\\_disputes/non-judicial\\_redress/ecc-net/index\\_en.htm](http://ec.europa.eu/consumers/solving_consumer_disputes/non-judicial_redress/ecc-net/index_en.htm)). Consumers have the right to choose whether to claim service under the HP Limited Warranty or against the seller under the legal guarantee.

**Ireland:** The HP Limited Warranty benefits apply in addition to any statutory rights from seller in relation to nonconformity of goods with the contract of sale. However various factors may impact your eligibility to receive these rights. Consumer statutory rights are not limited or affected in any manner by HP Care Pack. For further information, please consult the following link: Consumer Legal Guarantee ([www.hp.com/go/eu-legal](http://www.hp.com/go/eu-legal)) or you may visit the European Consumer Centers website ([http://ec.europa.eu/consumers/solving\\_consumer\\_disputes/non-judicial\\_redress/ecc-net/index\\_en.htm](http://ec.europa.eu/consumers/solving_consumer_disputes/non-judicial_redress/ecc-net/index_en.htm)). Consumers have the right to choose whether to claim service under the HP Limited Warranty or against the seller under the legal guarantee.

**Malta:** The HP Limited Warranty benefits apply in addition to any legal rights to a two-year guarantee from seller of nonconformity of goods with the contract of sale; however various factors may impact your eligibility to receive these rights. Consumer statutory rights are not limited or affected in any manner by the HP Limited Warranty. For further information, please consult the following link: Consumer Legal Guarantee ([www.hp.com/go/eu-legal](http://www.hp.com/go/eu-legal)) or you may visit the European Consumer Centers website ([http://ec.europa.eu/consumers/solving\\_consumer\\_disputes/non-judicial\\_redress/ecc-net/index\\_en.htm](http://ec.europa.eu/consumers/solving_consumer_disputes/non-judicial_redress/ecc-net/index_en.htm)). Consumers have the right to choose whether to claim service under the HP Limited Warranty or against the seller under two-year legal guarantee.

## Austria, Belgium, Germany, and Luxembourg

Die beschränkte HP Herstellergarantie ist eine von HP auf freiwilliger Basis angebotene kommerzielle Garantie. Der Name und die Adresse der HP Gesellschaft, die in Ihrem Land für die Gewährung der beschränkten HP Herstellergarantie verantwortlich ist, sind wie folgt:

**Deutschland:** HP Deutschland GmbH, Schickardstr. 32, D-71034 Böblingen

**Österreich:** HP Austria GmbH., Technologiestrasse 5, A-1120 Wien

**Luxemburg:** Hewlett-Packard Luxembourg S.C.A., 75, Parc d'Activités Capellen, Rue Pafebruc, L-8308 Capellen

**Belgien:** HP Belgium BVBA, Hermeslaan 1A, B-1831 Diegem

Die Rechte aus der beschränkten HP Herstellergarantie gelten zusätzlich zu den gesetzlichen Ansprüchen wegen Sachmängeln auf eine zweijährige Gewährleistung ab dem Lieferdatum. Ob Sie Anspruch auf diese

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## Belgium, France, and Luxembourg

La garantie limitée HP est une garantie commerciale fournie volontairement par HP. Voici les coordonnées de l'entité HP responsable de l'exécution de la garantie limitée HP dans votre pays:

**France:** HP France SAS, société par actions simplifiée identifiée sous le numéro 448 694 133 RCS Evry, 1 Avenue du Canada, 91947, Les Ulis

**G.D. Luxembourg:** Hewlett-Packard Luxembourg S.C.A., 75, Parc d'Activités Capellen, Rue Pafebruc, L-8308 Capellen

**Belgique:** HP Belgium BVBA, Hermeslaan 1A, B-1831 Diegem

**France:** Les avantages de la garantie limitée HP s'appliquent en complément des droits dont vous disposez au titre des garanties légales applicables dont le bénéfice est soumis à des conditions spécifiques. Vos droits en tant que consommateur au titre de la garantie légale de conformité mentionnée aux articles L. 211-4 à L. 211-13 du Code de la Consommation et de celle relatives aux défauts de la chose vendue, dans les conditions prévues aux articles 1641 à 1648 et 2232 du Code de Commerce ne sont en aucune façon limités ou affectés par la garantie limitée HP. Pour de plus amples informations, veuillez consulter le lien suivant : Garanties légales accordées au consommateur ([www.hp.com/go/eu-legal](http://www.hp.com/go/eu-legal)). Vous pouvez également consulter le site Web des Centres européens des consommateurs ([http://ec.europa.eu/consumers/solving\\_consumer\\_disputes/non-judicial\\_redress/ecc-net/index\\_en.htm](http://ec.europa.eu/consumers/solving_consumer_disputes/non-judicial_redress/ecc-net/index_en.htm)). Les consommateurs ont le droit de choisir d'exercer leurs droits au titre de la garantie limitée HP, ou auprès du vendeur au titre des garanties légales applicables mentionnées ci-dessus.

### POUR RAPPEL:

Garantie Légale de Conformité:

*« Le vendeur est tenu de livrer un bien conforme au contrat et répond des défauts de conformité existant lors de la délivrance.*

*Il répond également des défauts de conformité résultant de l'emballage, des instructions de montage ou de l'installation lorsque celle-ci a été mise à sa charge par le contrat ou a été réalisée sous sa responsabilité ».*

Article L211-5 du Code de la Consommation:

*« Pour être conforme au contrat, le bien doit:*

*1° Etre propre à l'usage habituellement attendu d'un bien semblable et, le cas échéant:*

*- correspondre à la description donnée par le vendeur et posséder les qualités que celui-ci a présentées à l'acheteur sous forme d'échantillon ou de modèle;*

*- présenter les qualités qu'un acheteur peut légitimement attendre eu égard aux déclarations publiques faites par le vendeur, par le producteur ou par son représentant, notamment dans la publicité ou l'étiquetage;*

*2° Ou présenter les caractéristiques définies d'un commun accord par les parties ou être propre à tout usage spécial recherché par l'acheteur, porté à la connaissance du vendeur et que ce dernier a accepté ».*

Article L211-12 du Code de la Consommation:

*« L'action résultant du défaut de conformité se prescrit par deux ans à compter de la délivrance du bien ».*

Garantie des vices cachés

Article 1641 du Code Civil : *« Le vendeur est tenu de la garantie à raison des défauts cachés de la chose vendue qui la rendent impropre à l'usage auquel on la destine, ou qui diminuent tellement cet usage que l'acheteur ne l'aurait pas acquise, ou n'en aurait donné qu'un moindre prix, s'il les avait connus. »*

Article 1648 alinéa 1 du Code Civil:

*« L'action résultant des vices rédhibitoires doit être intentée par l'acquéreur dans un délai de deux ans à compter de la découverte du vice. »*

**G.D. Luxembourg et Belgique:** Les avantages de la garantie limitée HP s'appliquent en complément des droits dont vous disposez au titre de la garantie de non-conformité des biens avec le contrat de vente. Cependant, de nombreux facteurs peuvent avoir un impact sur le bénéfice de ces droits. Vos droits en tant que consommateur au titre de ces garanties ne sont en aucune façon limités ou affectés par la garantie limitée HP. Pour de plus amples informations, veuillez consulter le lien suivant : Garanties légales accordées au consommateur ([www.hp.com/go/eu-legal](http://www.hp.com/go/eu-legal)) ou vous pouvez également consulter le site Web des Centres européens des consommateurs ([http://ec.europa.eu/consumers/solving\\_consumer\\_disputes/non-judicial\\_redress/ecc-net/index\\_en.htm](http://ec.europa.eu/consumers/solving_consumer_disputes/non-judicial_redress/ecc-net/index_en.htm)). Les consommateurs ont le droit de choisir de réclamer un service sous la garantie limitée HP ou auprès du vendeur au cours d'une garantie légale de deux ans.

## Italy

La Garanzia limitata HP è una garanzia commerciale fornita volontariamente da HP. Di seguito sono indicati nome e indirizzo della società HP responsabile della fornitura dei servizi coperti dalla Garanzia limitata HP nel vostro Paese:

**Italia:** HP Italy S.r.l., Via G. Di Vittorio 9, 20063 Cernusco S/Naviglio

I vantaggi della Garanzia limitata HP vengono concessi ai consumatori in aggiunta ai diritti derivanti dalla garanzia di due anni fornita dal venditore in caso di non conformità dei beni rispetto al contratto di vendita. Tuttavia, diversi fattori possono avere un impatto sulla possibilità di beneficiare di tali diritti. I diritti spettanti ai consumatori in forza della garanzia legale non sono in alcun modo limitati, né modificati dalla Garanzia limitata HP. Per ulteriori informazioni, si prega di consultare il seguente link: Garanzia legale per i clienti ([www.hp.com/go/eu-legal](http://www.hp.com/go/eu-legal)), oppure visitare il sito Web dei Centri europei per i consumatori ([http://ec.europa.eu/consumers/solving\\_consumer\\_disputes/non-judicial\\_redress/ecc-net/index\\_en.htm](http://ec.europa.eu/consumers/solving_consumer_disputes/non-judicial_redress/ecc-net/index_en.htm)). I consumatori hanno il diritto di scegliere se richiedere un servizio usufruendo della Garanzia limitata HP oppure rivolgendosi al venditore per far valere la garanzia legale di due anni.

## Spain

Su Garantía limitada de HP es una garantía comercial voluntariamente proporcionada por HP. El nombre y dirección de las entidades HP que proporcionan la Garantía limitada de HP (garantía comercial adicional del fabricante) en su país es:

**España:** Hewlett-Packard Española S.L. Calle Vicente Aleixandre, 1 Parque Empresarial Madrid - Las Rozas, E-28232 Madrid

Los beneficios de la Garantía limitada de HP son adicionales a la garantía legal de 2 años a la que los consumidores tienen derecho a recibir del vendedor en virtud del contrato de compraventa; sin embargo, varios factores pueden afectar su derecho a recibir los beneficios bajo dicha garantía legal. A este respecto, la Garantía limitada de HP no limita o afecta en modo alguno los derechos legales del consumidor ([www.hp.com/go/eu-legal](http://www.hp.com/go/eu-legal)). Para más información, consulte el siguiente enlace: Garantía legal del

consumidor o puede visitar el sitio web de los Centros europeos de los consumidores ([http://ec.europa.eu/consumers/solving\\_consumer\\_disputes/non-judicial\\_redress/ecc-net/index\\_en.htm](http://ec.europa.eu/consumers/solving_consumer_disputes/non-judicial_redress/ecc-net/index_en.htm)). Los clientes tienen derecho a elegir si reclaman un servicio acogiéndose a la Garantía limitada de HP o al vendedor de conformidad con la garantía legal de dos años.

## Denmark

Den begrænsede HP-garanti er en garanti, der ydes frivilligt af HP. Navn og adresse på det HP-selskab, der er ansvarligt for HP's begrænsede garanti i dit land, er som følger:

**Danmark:** HP Inc Danmark ApS, Engholm Parkvej 8, 3450, Allerød

Den begrænsede HP-garanti gælder i tillæg til eventuelle juridiske rettigheder, for en toårig garanti fra sælgeren af varer, der ikke er i overensstemmelse med salgsaftalen, men forskellige faktorer kan dog påvirke din ret til at opnå disse rettigheder. Forbrugerens lovbestemte rettigheder begrænses eller påvirkes ikke på nogen måde af den begrænsede HP-garanti. Se nedenstående link for at få yderligere oplysninger: Forbrugerens juridiske garanti ([www.hp.com/go/eu-legal](http://www.hp.com/go/eu-legal)) eller du kan besøge De Europæiske Forbrugercentres websted ([http://ec.europa.eu/consumers/solving\\_consumer\\_disputes/non-judicial\\_redress/ecc-net/index\\_en.htm](http://ec.europa.eu/consumers/solving_consumer_disputes/non-judicial_redress/ecc-net/index_en.htm)). Forbrugere har ret til at vælge, om de vil gøre krav på service i henhold til HP's begrænsede garanti eller hos sælger i henhold til en toårig juridisk garanti.

## Norway

HPs garanti er en begrenset og kommersiell garanti som HP selv har valgt å tilby. Følgende lokale selskap innestår for garantien:

**Norge:** HP Norge AS, Rolfbuktveien 4b, 1364 Fornebu

HPs garanti kommer i tillegg til det mangelsansvar HP har i henhold til norsk forbrukerkjøpslovgivning, hvor reklamasjonsperioden kan være to eller fem år, avhengig av hvor lenge salgsgjenstanden var ment å vare. Ulike faktorer kan imidlertid ha betydning for om du kvalifiserer til å kreve avhjelp iht slikt mangelsansvar. Forbrukerens lovmessige rettigheter begrenses ikke av HPs garanti. Hvis du vil ha mer informasjon, kan du klikke på følgende kobling: Juridisk garanti for forbruker ([www.hp.com/go/eu-legal](http://www.hp.com/go/eu-legal)) eller du kan besøke nettstedet til de europeiske forbrukersentrene ([http://ec.europa.eu/consumers/solving\\_consumer\\_disputes/non-judicial\\_redress/ecc-net/index\\_en.htm](http://ec.europa.eu/consumers/solving_consumer_disputes/non-judicial_redress/ecc-net/index_en.htm)). Forbrukere har retten til å velge å kreve service under HPs garanti eller iht selgerens lovpålagte mangelsansvar.

## Sweden

HP:s begränsade garanti är en kommersiell garanti som tillhandahålls frivilligt av HP. Namn och adress till det HP-företag som ansvarar för HP:s begränsade garanti i ditt land är som följer:

**Sverige:** HP PPS Sverige AB, SE-169 73 Stockholm

Fördelarna som ingår i HP:s begränsade garanti gäller utöver de lagstadgade rättigheterna till tre års garanti från säljaren angående varans bristande överensstämmelse gentemot köpeavtalet, men olika faktorer kan påverka din rätt att utnyttja dessa rättigheter. Konsumentens lagstadgade rättigheter varken begränsas eller påverkas på något sätt av HP:s begränsade garanti. Mer information får du om du följer denna länk: Lagstadgad garanti för konsumenter ([www.hp.com/go/eu-legal](http://www.hp.com/go/eu-legal)) eller så kan du gå till European Consumer Centers webbplats ([http://ec.europa.eu/consumers/solving\\_consumer\\_disputes/non-judicial\\_redress/ecc-net/index\\_en.htm](http://ec.europa.eu/consumers/solving_consumer_disputes/non-judicial_redress/ecc-net/index_en.htm)). Konsumenter har rätt att välja om de vill ställa krav enligt HP:s begränsade garanti eller på säljaren enligt den lagstadgade treåriga garantin.

## Portugal

A Garantia Limitada HP é uma garantia comercial fornecida voluntariamente pela HP. O nome e a morada da entidade HP responsável pela prestação da Garantia Limitada HP no seu país são os seguintes:

**Portugal:** HPCP – Computing and Printing Portugal, Unipessoal, Lda., Edifício D. Sancho I, Quinta da Fonte, Porto Salvo, Lisboa, Oeiras, 2740 244

As vantagens da Garantia Limitada HP aplicam-se cumulativamente com quaisquer direitos decorrentes da legislação aplicável à garantia de dois anos do vendedor, relativa a defeitos do produto e constante do contrato de venda. Existem, contudo, vários fatores que poderão afetar a sua elegibilidade para beneficiar de tais direitos. Os direitos legalmente atribuídos aos consumidores não são limitados ou afetados de forma alguma pela Garantia Limitada HP. Para mais informações, consulte a ligação seguinte: Garantia legal do consumidor ([www.hp.com/go/eu-legal](http://www.hp.com/go/eu-legal)) ou visite o Web site da Rede dos Centros Europeus do Consumidor ([http://ec.europa.eu/consumers/solving\\_consumer\\_disputes/non-judicial\\_redress/ecc-net/index\\_en.htm](http://ec.europa.eu/consumers/solving_consumer_disputes/non-judicial_redress/ecc-net/index_en.htm)). Os consumidores têm o direito de escolher se pretendem reclamar assistência ao abrigo da Garantia Limitada HP ou contra o vendedor ao abrigo de uma garantia jurídica de dois anos.

## Greece and Cyprus

Η Περιορισμένη εγγύηση HP είναι μια εμπορική εγγύηση η οποία παρέχεται εθελοντικά από την HP. Η επωνυμία και η διεύθυνση του νομικού προσώπου HP που παρέχει την Περιορισμένη εγγύηση HP στη χώρα σας είναι η εξής:

**Ελλάδα /Κύπρος:** HP Printing and Personal Systems Hellas EPE, Tzavella 1-3, 15232 Chalandri, Attiki

**Ελλάδα /Κύπρος:** HP Συστήματα Εκτύπωσης και Προσωπικών Υπολογιστών Ελλάς Εταιρεία Περιορισμένης Ευθύνης, Tzavella 1-3, 15232 Chalandri, Attiki

Τα προνόμια της Περιορισμένης εγγύησης HP ισχύουν επιπλέον των νόμιμων δικαιωμάτων για διετή εγγύηση έναντι του Πωλητή για τη μη συμμόρφωση των προϊόντων με τις συνομολογημένες συμβατικά ιδιότητες, ωστόσο η άσκηση των δικαιωμάτων σας αυτών μπορεί να εξαρτάται από διάφορους παράγοντες. Τα νόμιμα δικαιώματα των καταναλωτών δεν περιορίζονται ούτε επηρεάζονται καθ' οιονδήποτε τρόπο από την Περιορισμένη εγγύηση HP. Για περισσότερες πληροφορίες, συμβουλευτείτε την ακόλουθη τοποθεσία web: Νόμιμη εγγύηση καταναλωτή ([www.hp.com/go/eu-legal](http://www.hp.com/go/eu-legal)) ή μπορείτε να επισκεφτείτε την τοποθεσία web των Ευρωπαϊκών Κέντρων Καταναλωτή ([http://ec.europa.eu/consumers/solving\\_consumer\\_disputes/non-judicial\\_redress/ecc-net/index\\_en.htm](http://ec.europa.eu/consumers/solving_consumer_disputes/non-judicial_redress/ecc-net/index_en.htm)). Οι καταναλωτές έχουν το δικαίωμα να επιλέξουν αν θα αξιώσουν την υπηρεσία στα πλαίσια της Περιορισμένης εγγύησης HP ή από τον πωλητή στα πλαίσια της νόμιμης εγγύησης δύο ετών.

## Hungary

A HP korlátozott jótállás egy olyan kereskedelmi jótállás, amelyet a HP a saját elhatározásából biztosít. Az egyes országokban a HP mint gyártó által vállalt korlátozott jótállást biztosító HP vállalatok neve és címe:

**Magyarország:** HP Inc Magyarország Kft., H-1117 Budapest, Alíz utca 1.

A HP korlátozott jótállásban biztosított jogok azokon a jogokon felül illetik meg Önt, amelyek a termékeknek az adásvételi szerződés szerinti minőségére vonatkozó kétéves, jogszabályban foglalt eladói szavatosságból, továbbá ha az Ön által vásárolt termékre alkalmazandó, a jogszabályban foglalt kötelező eladói jótállásból erednek, azonban számos körülmény hatással lehet arra, hogy ezek a jogok Önt megilletik-e. További információért kérjük, keresse fel a következő webhelyet: Jogi Tájékoztató Fogyasztóknak ([www.hp.com/go/eu-legal](http://www.hp.com/go/eu-legal)) vagy látogassa meg az Európai Fogyasztói Központok webhelyét ([http://ec.europa.eu/consumers/solving\\_consumer\\_disputes/non-judicial\\_redress/ecc-net/index\\_en.htm](http://ec.europa.eu/consumers/solving_consumer_disputes/non-judicial_redress/ecc-net/index_en.htm)). A fogyasztóknak jogában áll, hogy megválasszák, hogy a jótállással kapcsolatos igényüket a HP korlátozott

jótállás alapján vagy a kétéves, jogszabályban foglalt eladói szavatosság, illetve, ha alkalmazandó, a jogszabályban foglalt kötelező eladói jótállás alapján érvényesítik.

## Czech Republic

Omezená záruka HP je obchodní zárukou dobrovolně poskytovanou společností HP. Názvy a adresy společností skupiny HP, které odpovídají za plnění omezené záruky HP ve vaší zemi, jsou následující:

**Česká republika:** HP Inc Czech Republic s. r. o., Za Brumlovkou 5/1559, 140 00 Praha 4

Výhody, poskytované omezenou zárukou HP, se uplatňují jako doplněk k jakýmkoli právním nárokům na dvouletou záruku poskytnutou prodejcem v případě nesouladu zboží s kupní smlouvou. Váš nárok na uznání těchto práv však může záviset na mnohých faktorech. Omezená záruka HP žádným způsobem neomezuje ani neovlivňuje zákonná práva zákazníka. Další informace získáte kliknutím na následující odkaz: Zákonná záruka spotřebitele ([www.hp.com/go/eu-legal](http://www.hp.com/go/eu-legal)) případně můžete navštívit webové stránky Evropského spotřebitelského centra ([http://ec.europa.eu/consumers/solving\\_consumer\\_disputes/non-judicial\\_redress/ecc-net/index\\_en.htm](http://ec.europa.eu/consumers/solving_consumer_disputes/non-judicial_redress/ecc-net/index_en.htm)). Spotřebitelé mají právo se rozhodnout, zda chtějí službu reklamovat v rámci omezené záruky HP nebo v rámci zákonem stanovené dvouleté záruky u prodejce.

## Slovakia

Obmedzená záruka HP je obchodná záruka, ktorú spoločnosť HP poskytuje dobrovoľne. Meno a adresa subjektu HP, ktorý zabezpečuje plnenie vyplývajúce z Obmedzenej záruky HP vo vašej krajine:

**Slovenská republika:** HP Inc Slovakia, s.r.o., Galvaniho 7, 821 04 Bratislava

Výhody Obmedzenej záruky HP sa uplatnia vedľa prípadných zákazníkových zákonných nárokov voči predávajúcemu z váš, ktoré spočívajú v nesúlade vlastností tovaru s jeho popisom podľa predmetnej zmluvy. Možnosť uplatnenia takých prípadných nárokov však môže závisieť od rôznych faktorov. Služby Obmedzenej záruky HP žiadnym spôsobom neobmedzujú ani neovplyvňujú zákonné práva zákazníka, ktorý je spotrebiteľom. Ďalšie informácie nájdete na nasledujúcom prepojení: Zákonná záruka spotrebiteľa ([www.hp.com/go/eu-legal](http://www.hp.com/go/eu-legal)), prípadne môžete navštíviť webovú lokalitu európskych zákazníckych stredísk ([http://ec.europa.eu/consumers/solving\\_consumer\\_disputes/non-judicial\\_redress/ecc-net/index\\_en.htm](http://ec.europa.eu/consumers/solving_consumer_disputes/non-judicial_redress/ecc-net/index_en.htm)). Spotrebiteľia majú právo zvoliť si, či chcú uplatniť servis v rámci Obmedzenej záruky HP alebo počas zákonnej dvojročnej záručnej lehoty u predajcu.

## Poland

Ograniczona gwarancja HP to komercyjna gwarancja udzielona dobrowolnie przez HP. Nazwa i adres podmiotu HP odpowiedzialnego za realizację Ograniczonej gwarancji HP w Polsce:

**Polska:** HP Inc Polska sp. z o.o., Szturmowa 2a, 02-678 Warszawa, wpisana do rejestru przedsiębiorców prowadzonego przez Sąd Rejonowy dla m.st. Warszawy w Warszawie, XIII Wydział Gospodarczy Krajowego Rejestru Sądowego, pod numerem KRS 0000546115, NIP 5213690563, REGON 360916326, GIÓŚ E0020757WZBW, kapitał zakładowy 480.000 PLN.

Świadczenia wynikające z Ograniczonej gwarancji HP stanowią dodatek do praw przysługujących nabywcy w związku z dwuletnią odpowiedzialnością sprzedawcy z tytułu niezgodności towaru z umową (rękojmia). Niemniej, na możliwość korzystania z tych praw mają wpływ różne czynniki. Ograniczona gwarancja HP w żaden sposób nie ogranicza praw konsumenta ani na nie nie wpływa. Więcej informacji można znaleźć pod następującym łączem: Gwarancja prawna konsumenta ([www.hp.com/go/eu-legal](http://www.hp.com/go/eu-legal)), można także odwiedzić stronę internetową Europejskiego Centrum Konsumentckiego ([http://ec.europa.eu/consumers/solving\\_consumer\\_disputes/non-judicial\\_redress/ecc-net/index\\_en.htm](http://ec.europa.eu/consumers/solving_consumer_disputes/non-judicial_redress/ecc-net/index_en.htm)). Konsumentci mają prawo wyboru co do możliwości skorzystania albo z usług gwarancyjnych przysługujących w ramach Ograniczonej gwarancji HP albo z uprawnień wynikających z dwuletniej rękojmi w stosunku do sprzedawcy.



## Bulgaria

Ограничената гаранция на HP представлява търговска гаранция, доброволно предоставяна от HP. Името и адресът на дружеството на HP за вашата страна, отговорно за предоставянето на гаранционната поддръжка в рамките на Ограничената гаранция на HP, са както следва:

HP Inc Bulgaria EOOD (Ейч Пи Инк България ЕООД), гр. София 1766, район р-н Младост, бул. Околовръстен Път No 258, Бизнес Център Камбаните

Предимствата на Ограничената гаранция на HP се прилагат в допълнение към всички законови права за двугодишна гаранция от продавача при несъответствие на стоката с договора за продажба. Въпреки това, различни фактори могат да окажат влияние върху условията за получаване на тези права. Законовите права на потребителите не са ограничени или засегнати по никакъв начин от Ограничената гаранция на HP. За допълнителна информация, моля вижте Правната гаранция на потребителя ([www.hp.com/go/eu-legal](http://www.hp.com/go/eu-legal)) или посетете уебсайта на Европейския потребителски център ([http://ec.europa.eu/consumers/solving\\_consumer\\_disputes/non-judicial\\_redress/ecc-net/index\\_en.htm](http://ec.europa.eu/consumers/solving_consumer_disputes/non-judicial_redress/ecc-net/index_en.htm)). Потребителите имат правото да избират дали да претендират за извършване на услуга в рамките на Ограничената гаранция на HP или да потърсят такава от търговеца в рамките на двугодишната правна гаранция.

## Romania

Garanția limitată HP este o garanție comercială furnizată în mod voluntar de către HP. Numele și adresa entității HP răspunzătoare de punerea în aplicare a Garanției limitate HP în țara dumneavoastră sunt următoarele:

**România:** HP Inc Romania SRL, 5 Fabrica de Glucoza Str., Building F, Ground Floor and Floor 8, 2nd District, București

Beneficiile Garanției limitate HP se aplică suplimentar față de orice drepturi privind garanția de doi ani oferită de vânzător pentru neconformitatea bunurilor cu contractul de vânzare; cu toate acestea, diverși factori pot avea impact asupra eligibilității dvs. de a beneficia de aceste drepturi. Drepturile legale ale consumatorului nu sunt limitate sau afectate în vreun fel de Garanția limitată HP. Pentru informații suplimentare consultați următorul link: garanția acordată consumatorului prin lege ([www.hp.com/go/eu-legal](http://www.hp.com/go/eu-legal)) sau puteți accesa site-ul Centrul European al Consumatorilor ([http://ec.europa.eu/consumers/solving\\_consumer\\_disputes/non-judicial\\_redress/ecc-net/index\\_en.htm](http://ec.europa.eu/consumers/solving_consumer_disputes/non-judicial_redress/ecc-net/index_en.htm)). Consumatorii au dreptul să aleagă dacă să pretendă despăgubiri în cadrul Garanției limitate HP sau de la vânzător, în cadrul garanției legale de doi ani.

## Belgium and the Netherlands

De Beperkte Garantie van HP is een commerciële garantie vrijwillig verstrekt door HP. De naam en het adres van de HP-entiteit die verantwoordelijk is voor het uitvoeren van de Beperkte Garantie van HP in uw land is als volgt:

**Nederland:** HP Nederland B.V., Startbaan 16, 1187 XR Amstelveen

**België:** HP Belgium BVBA, Hermeslaan 1A, B-1831 Diegem

De voordelen van de Beperkte Garantie van HP vormen een aanvulling op de wettelijke garantie voor consumenten gedurende twee jaren na de levering te verlenen door de verkoper bij een gebrek aan conformiteit van de goederen met de relevante verkoopovereenkomst. Niettemin kunnen diverse factoren een impact hebben op uw eventuele aanspraak op deze wettelijke rechten. De wettelijke rechten van de consument worden op geen enkele wijze beperkt of beïnvloed door de Beperkte Garantie van HP. Raadpleeg voor meer informatie de volgende webpagina: Wettelijke garantie van de consument ([www.hp.com/go/eu-legal](http://www.hp.com/go/eu-legal)) of u kan de website van het Europees Consumenten Centrum bezoeken ([http://ec.europa.eu/consumers/solving\\_consumer\\_disputes/non-judicial\\_redress/ecc-net/index\\_en.htm](http://ec.europa.eu/consumers/solving_consumer_disputes/non-judicial_redress/ecc-net/index_en.htm)). Consumenten hebben

het recht om te kiezen tussen enerzijds de Beperkte Garantie van HP of anderzijds het aanspreken van de verkoper in toepassing van de wettelijke garantie.

## Finland

HP:n rajoitettu takuu on HP:n vapaaehtoisesti antama kaupallinen takuu. HP:n myöntämästä takuusta maassanne vastaavan HP:n edustajan yhteystiedot ovat:

**Suomi:** HP Finland Oy, Piispankalliontie, FIN - 02200 Espoo

HP:n takuun edut ovat voimassa mahdollisten kuluttajansuojalakiin perustuvien oikeuksien lisäksi sen varalta, että tuote ei vastaa myyntisopimusta. Saat lisätietoja seuraavasta linkistä: Kuluttajansuoja ([www.hp.com/go/eu-legal](http://www.hp.com/go/eu-legal)) tai voit käydä Euroopan kuluttajakeskuksen sivustolla ([http://ec.europa.eu/consumers/solving\\_consumer\\_disputes/non-judicial\\_redress/ecc-net/index\\_en.htm](http://ec.europa.eu/consumers/solving_consumer_disputes/non-judicial_redress/ecc-net/index_en.htm)). Kuluttajilla on oikeus vaatia virheen korjausta HP:n takuun ja kuluttajansuojan perusteella HP:lta tai myyjältä.

## Slovenia

Omejena garancija HP je prostovoljna trgovska garancija, ki jo zagotavlja podjetje HP. Ime in naslov poslovne enote HP, ki je odgovorna za omejeno garancijo HP v vaši državi, sta naslednja:

**Slovenija:** Hewlett-Packard Europe B.V., Amsterdam, Meyrin Branch, Route du Nant-d'Avril 150, 1217 Meyrin, Switzerland

Ugodnosti omejene garancije HP veljajo poleg zakonskih pravic, ki ob sklenitvi kupoprodajne pogodbe izhajajo iz dveletne garancije prodajalca v primeru neskladnosti blaga, vendar lahko na izpolnjevanje pogojev za uveljavitev pravic vplivajo različni dejavniki. Omejena garancija HP nikakor ne omejuje strankinih z zakonom predpisanih pravic in ne vpliva nanje. Za dodatne informacije glejte naslednjo povezavo: Strankino pravno jamstvo ([www.hp.com/go/eu-legal](http://www.hp.com/go/eu-legal)); ali pa obiščite spletno mesto evropskih središč za potrošnike ([http://ec.europa.eu/consumers/solving\\_consumer\\_disputes/non-judicial\\_redress/ecc-net/index\\_en.htm](http://ec.europa.eu/consumers/solving_consumer_disputes/non-judicial_redress/ecc-net/index_en.htm)). Potrošniki imajo pravico izbrati, ali bodo uveljavljali pravice do storitev v skladu z omejeno garancijo HP ali proti prodajalcu v skladu z dvoletno zakonsko garancijo.

## Croatia

HP ograničeno jamstvo komercijalno je dobrovoljno jamstvo koje pruža HP. Ime i adresa HP subjekta odgovornog za HP ograničeno jamstvo u vašoj državi:

**Hrvatska:** HP Computing and Printing d.o.o. za računalne i srodne aktivnosti, Radnička cesta 41, 10000 Zagreb

Pogodnosti HP ograničenog jamstva vrijede zajedno uz sva zakonska prava na dvogodišnje jamstvo kod bilo kojeg prodavača s obzirom na nepodudaranje robe s ugovorom o kupnji. Međutim, razni faktori mogu utjecati na vašu mogućnost ostvarivanja tih prava. HP ograničeno jamstvo ni na koji način ne utječe niti ne ograničava zakonska prava potrošača. Dodatne informacije potražite na ovoj adresi: Zakonsko jamstvo za potrošače ([www.hp.com/go/eu-legal](http://www.hp.com/go/eu-legal)) ili možete posjetiti web-mjesto Evropskih potrošačkih centara ([http://ec.europa.eu/consumers/solving\\_consumer\\_disputes/non-judicial\\_redress/ecc-net/index\\_en.htm](http://ec.europa.eu/consumers/solving_consumer_disputes/non-judicial_redress/ecc-net/index_en.htm)). Potrošači imaju pravo odabrati žele li ostvariti svoja potraživanja u sklopu HP ograničenog jamstva ili pravnog jamstva prodavača u trajanju ispod dvije godine.

## Latvia

HP ierobežotā garantija ir komercgarantija, kuru brīvpriēti nodrošina HP. HP uzņēmums, kas sniedz HP ierobežotās garantijas servisa nodrošinājumu jūsu valstī:

**Latvija:** HP Finland Oy, PO Box 515, 02201 Espoo, Finland

HP ierobežotās garantijas priekšrocības tiek piedāvātas papildus jebkurām likumīgajām tiesībām uz pārdevēja un/vai ražotāju nodrošinātu divu gadu garantiju gadījumā, ja preces neatbilst pirkuma līgumam, tomēr šo tiesību saņemšanu var ietekmēt vairāki faktori. HP ierobežotā garantija nekādā veidā neierobežo un neietekmē patērētāju likumīgās tiesības. Lai iegūtu plašāku informāciju, izmantojiet šo saiti: Patērētāju likumīgā garantija ([www.hp.com/go/eu-legal](http://www.hp.com/go/eu-legal)) vai arī Eiropas Patērētāju tiesību aizsardzības centra tīmekļa vietni ([http://ec.europa.eu/consumers/solving\\_consumer\\_disputes/non-judicial\\_redress/ecc-net/index\\_en.htm](http://ec.europa.eu/consumers/solving_consumer_disputes/non-judicial_redress/ecc-net/index_en.htm)). Patērētājiem ir tiesības izvēlēties, vai pieprasīt servisa nodrošinājumu saskaņā ar HP ierobežoto garantiju, vai arī pārdevēja sniegto divu gadu garantiju.

## Lithuania

HP ribotoji garantija yra HP savanoriškai teikiama komercinė garantija. Toliau pateikiami HP bendrovių, teikiančių HP garantiją (gamintojo garantiją) jūsų šalyje, pavadinimai ir adresai:

**Lietuva:** HP Finland Oy, PO Box 515, 02201 Espoo, Finland

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## Estonia

HP piiratud garantii on HP poolt vabatahtlikult pakutav kaubanduslik garantii. HP piiratud garantii eest vastutab HP üksus aadressil:

**Eesti:** HP Finland Oy, PO Box 515, 02201 Espoo, Finland

HP piiratud garantii rakendub lisaks seaduses ettenähtud müüjapoolsele kaheaastasele garantiile, juhul kui toode ei vasta müügilepingu tingimustele. Siiski võib esineda asjaolusid, mille puhul teie jaoks need õigused ei pruugi kehtida. HP piiratud garantii ei piira ega mõjuta mingil moel tarbija seadusjärgseid õigusi. Lisateavet leiate järgmiselt lingilt: tarbija õiguslik garantii ([www.hp.com/go/eu-legal](http://www.hp.com/go/eu-legal)) või võite külastada Euroopa tarbijakeskuste veebisaiti ([http://ec.europa.eu/consumers/solving\\_consumer\\_disputes/non-judicial\\_redress/ecc-net/index\\_en.htm](http://ec.europa.eu/consumers/solving_consumer_disputes/non-judicial_redress/ecc-net/index_en.htm)). Tarbijal on õigus valida, kas ta soovib kasutada HP piiratud garantiid või seadusega ette nähtud müüjapoolset kaheaastast garantiid.

## Russia

### Срок службы принтера для России

Срок службы данного принтера HP составляет пять лет в нормальных условиях эксплуатации. Срок службы отсчитывается с момента ввода принтера в эксплуатацию. В конце срока службы HP рекомендует посетить веб-сайт нашей службы поддержки по адресу <http://www.hp.com/support> и/или связаться с авторизованным поставщиком услуг HP для получения рекомендаций в отношении дальнейшего безопасного использования принтера.

## HP's Premium Protection Warranty: LaserJet toner 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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## HP policy on non-HP supplies

HP cannot recommend the use of non-HP toner cartridges, either new or remanufactured.

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 **NOTE:** For HP printer products, the use of a non-HP toner cartridge or a refilled toner cartridge does not affect either the warranty to the customer or any HP support contract with the customer. However, if product failure or damage is attributable to the use of a non-HP toner cartridge or refilled toner cartridge, HP will charge its standard time and materials charges to service the product for the particular failure or damage.

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## HP anticounterfeit Web site

Go to [www.hp.com/go/anticounterfeit](http://www.hp.com/go/anticounterfeit) when you install an HP toner cartridge and the control-panel message indicates the cartridge is non-HP. HP will help determine if the cartridge is genuine and take steps to resolve the problem.

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

- The supplies status page indicates that a non-HP supply is installed.
- You are experiencing a high number of problems with the cartridge.
- The cartridge does not look like it usually does (for example, the packaging differs from HP packaging).

## Data stored on the toner cartridge

The HP toner cartridges used with this product contain a memory chip that assists in the operation of the product.

In addition, this memory chip collects a limited set of information about the usage of the product, which might include the following: the date when the toner cartridge was first installed, the date when the toner cartridge was last used, the number of pages printed using the toner cartridge, the page coverage, the printing modes used, any printing errors that might have occurred, and the product model. This information helps HP design future products to meet our customers' printing needs.

The data collected from the toner cartridge memory chip does not contain information that can be used to identify a customer or user of the toner cartridge or their product.

HP collects a sampling of the memory chips from toner cartridges returned to HP's free return and recycling program (HP Planet Partners: [www.hp.com/recycle](http://www.hp.com/recycle)). The memory chips from this sampling are read and studied in order to improve future HP products. HP partners who assist in recycling this toner cartridge might have access to this data, as well.

Any third party possessing the toner cartridge might have access to the anonymous information on the memory chip.

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First Edition: August 2015

## 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

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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 <a href="http://www.hp.com/support/">www.hp.com/support/</a> .
Have the product name, serial number, date of purchase, and problem description ready.	
Get 24-hour Internet support, and download software utilities and drivers	<a href="http://www.hp.com/support/lj1020/">www.hp.com/support/lj1020/</a>
Order additional HP service or maintenance agreements	<a href="http://www.hp.com/go/carepack">www.hp.com/go/carepack</a>
Register your product	<a href="http://www.register.hp.com">www.register.hp.com</a>

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# C Environmental product stewardship program

- [Protecting the environment](#)
- [Ozone production](#)
- [Power consumption](#)
- [Toner consumption](#)
- [Paper use](#)
- [Plastics](#)
- [HP LaserJet print supplies](#)
- [Paper](#)
- [Material restrictions](#)
- [Disposal of waste equipment by users \(EU and India\)](#)
- [Electronic hardware recycling](#)
- [Brazil hardware recycling information](#)
- [Chemical substances](#)
- [Product Power Data per European Union Commission Regulation 1275/2008](#)
- [Restriction on Hazardous Substances statement \(India\)](#)
- [Restriction on Hazardous Substances statement \(Turkey\)](#)
- [Restriction on Hazardous Substances statement \(Ukraine\)](#)
- [Substances Table \(China\)](#)
- [SEPA Ecolabel User Information \(China\)](#)
- [The regulation of the implementation on China energy label for printer, fax, and copier](#)
- [Material Safety Data Sheet \(MSDS\)](#)
- [EPEAT](#)
- [For more information](#)

## Protecting the environment

HP 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

The airborne emissions of ozone for this product has been measured according to a generally recognized method\* and when these emissions data are applied to a “generic office model exposure scenario”\*\*, HP is able to determine there is no appreciable amount of ozone generated during printing that exceeds any current indoor air quality standards or guidelines.

\* Test method for the determination of emissions from hardcopy devices with respect to awarding the environmental label for office devices with printing function; RAL-UZ 171 – BAM July, 2012

\*\* Based on ozone concentration when printing 2 hours per day in a 32 cubic meter room with a ventilation rate of 0.72 air changes per hour with HP printing supplies

### Power consumption

Power usage drops significantly while in Ready, Sleep, or Off mode, which saves natural resources and saves money without affecting the high performance of this product. HP 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](http://www.hp.com/go/energystar)

### Toner consumption

EconoMode uses less toner, which might extend the life of the print cartridge. 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 and is no longer acceptable, consider replacing the print cartridge.



## Paper use

This product's duplex feature (manual or automatic) 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

Original HP Supplies were designed with the environment in mind. HP makes it easy to conserve resources and paper when printing. And when you are done, we make it easy and free to recycle.<sup>1</sup>

All HP cartridges returned to HP Planet Partners go through a multiphase recycling process where materials are separated and refined for use as raw material in new Original HP cartridges and everyday products. No Original HP cartridges returned through HP Planet Partners are ever sent to a landfill, and HP never refills or resells Original HP cartridges.

**To participate in HP Planet Partners return and recycling program, visit [www.hp.com/recycle](http://www.hp.com/recycle). Select your country/region for information on how to return HP printing supplies. Multi-lingual program information and instructions are also included in every new HP LaserJet print cartridge package.**

<sup>1</sup> Program availability varies. For more information, visit [www.hp.com/recycle](http://www.hp.com/recycle).

## Paper

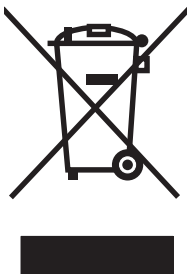
This product is capable of using recycled paper and lightweight paper (EcoFFICIENT™) when the paper meets the guidelines outlined in the *HP LaserJet Printer Family Print Media Guide*. This product is suitable for the use of recycled paper and lightweight paper (EcoFFICIENT™) according to EN12281:2002.

## Material restrictions

This HP product does not contain added mercury.

This HP product does not contain a battery.

## Disposal of waste equipment by users (EU and India)



This symbol means do not dispose of your product with your other household waste. Instead, you should protect human health and the environment by handing over your waste equipment to a designated collection point for the recycling of waste electrical and electronic equipment. For more information, please contact your household waste disposal service, or go to: [www.hp.com/recycle](http://www.hp.com/recycle).

## Electronic hardware recycling

HP encourages customers to recycle used electronic hardware. For more information about recycling programs go to: [www.hp.com/recycle](http://www.hp.com/recycle).

## Brazil hardware recycling information



**Não descarte o produto eletrônico em lixo comum**

Este produto eletrônico e seus componentes não devem ser descartados no lixo comum, pois embora estejam em conformidade com padrões mundiais de restrição a substâncias nocivas, podem conter, ainda que em quantidades mínimas, substâncias impactantes ao meio ambiente. Ao final da vida útil deste produto, o usuário deverá entregá-lo à HP. A não observância dessa orientação sujeitará o infrator às sanções previstas em lei.

Após o uso, as pilhas e/ou baterias dos produtos HP deverão ser entregues ao estabelecimento comercial ou rede de assistência técnica autorizada pela HP.

Para maiores informações, inclusive sobre os pontos de recebimento, acesse:

[www.hp.com.br/reciclar](http://www.hp.com.br/reciclar)

## 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](http://www.hp.com/go/reach).

## Product Power Data per European Union Commission Regulation 1275/2008

For product power data, including the power consumption of the product in networked standby if all wired network ports are connected and all wireless network ports are activated, please refer to section P14 'Additional Information' of the product IT ECO Declaration at [www.hp.com/hpinfo/globalcitizenship/environment/productdata/itecodesktop-pc.html](http://www.hp.com/hpinfo/globalcitizenship/environment/productdata/itecodesktop-pc.html).

## Restriction on Hazardous Substances statement (India)

This product, as well as its related consumables and spares, complies with the reduction in hazardous substances provisions of the "India E-waste Rule 2016." It does not contain lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers in concentrations exceeding 0.1 weight % and 0.01 weight % for cadmium, except where allowed pursuant to the exemptions set in Schedule 2 of the Rule.

## Restriction on Hazardous Substances statement (Turkey)

Türkiye Cumhuriyeti: EEE Yönetmeliğine Uygundur

## Restriction on Hazardous Substances statement (Ukraine)

Обладнання відповідає вимогам Технічного регламенту щодо обмеження використання деяких небезпечних речовин в електричному та електронному обладнанні, затвердженого постановою Кабінету Міністрів України від 3 грудня 2008 № 1057

## Substances Table (China)

### 产品中有害物质或元素的名称及含量

根据中国《电器电子产品有害物质限制使用管理办法》



部件名称	有害物质					
	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	0	0	0	0
控制面板	X	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

0609-17

本表格依据 SJ/T 11364 的规定编制。

0: 表示该有害物质在该部件所有均质材料中的含量均在 GB/T 26572 规定的限量要求以下。

X: 表示该有害物质至少在该部件的某一均质材料中的含量超出 GB/T 26572 规定的限量要求。

此表中所有名称中含 “X” 的部件均符合欧盟 RoHS 立法。

注: 环保使用期限的参考标识取决于产品正常工作的温度和湿度等条件

## SEPA Ecolabel User Information (China)

中国环境标识认证产品用户说明

噪声大于 63.0 dB(A)的办公设备不宜放置于办公室内，请在独立的隔离区域使用。

如需长时间使用本产品或打印大量文件，请确保在通风良好的房间内使用。

如您需要确认本产品处于零能耗状态，请按下电源关闭按钮，并将插头从电源插座断开。

您可以使用再生纸，以减少资源耗费。

# The regulation of the implementation on China energy label for printer, fax, and copier

依据“复印机、打印机和传真机能源效率标识实施规则”，本打印机具有中国能效标签。根据“复印机、打印机和传真机能效限定值及能效等级”（“GB21521”）决定并计算出该标签上所示的能效等级和 TEC (典型能耗) 值。

## 1. 能效等级

能效等级分为三个等级，等级 1 级能效最高。根据产品类型和打印速度标准决定能效限定值。

## 2. 能效信息

### 2.1 LaserJet 打印机和高性能喷墨打印机

- 典型能耗

典型能耗是正常运行 GB21521 测试方法中指定的时间后的耗电量。此数据表示为每周千瓦时 (kWh)。

标签上所示的能效数字按涵盖根据“复印机、打印机和传真机能源效率标识实施规则”选择的登记装置中所有配置的代表性配置测定而得。因此，本特定产品型号的实际能耗可能与标签上所示的数据不同。

有关规格的详细信息，请参阅 GB21521 标准的当前版本。

## 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](http://www.hp.com/go/msds).

## EPEAT

Many HP products are designed to meet EPEAT. EPEAT is a comprehensive environmental rating that helps identify greener electronics equipment. For more information on EPEAT go to [www.epeat.net](http://www.epeat.net). For information on HP's EPEAT registered products go to [www.hp.com/hpinfo/globalcitizenship/environment/pdf/epeat\\_printers.pdf](http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/epeat_printers.pdf).

## 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](http://www.hp.com/go/environment).

Also, visit [www.hp.com/recycle](http://www.hp.com/recycle).

# 限用物質含有情況標示聲明書

Declaration of the Presence Condition of the Restricted Substances Marking

若要存取產品的最新使用指南或手冊，請前往 <http://www.hp.com/support>。選取**搜尋您的產品**，然後依照畫面上的指示繼續執行。

To access the latest user guides or manuals for your product. Go to <http://www.support.hp.com>. Select **Find your product**, and then follow the on-screen instructions.

單元 Unit	限用物質及其化學符號 Restricted substances and its chemical symbols					
	鉛Lead (Pb)	汞Mercury (Hg)	鎘 Cadmium (Cd)	六價鉻 Hexavalent chromium (Cr <sup>+6</sup> )	多溴聯苯 Polybrominated biphenyls (PBB)	多溴二苯醚 Polybrominated diphenyl ethers (PBDE)
列印引擎 Print engine	—	○	○	○	○	○
控制面板 Control panel	—	○	○	○	○	○
塑膠外殼 Plastic housing parts	○	○	○	○	○	○
格式化組件 Formatter	—	○	○	○	○	○
<p>備考1. “超出0.1 wt %”及“超出0.01 wt %”係指限用物質之百分比含量超出百分比含量基準值。 Note 1: “Exceeding 0.1 wt %” and “exceeding 0.01 wt %” indicate that the percentage content of the restricted substance exceeds the reference percentage value of presence condition.</p> <p>備考2. “○”係指該項限用物質之百分比含量未超出百分比含量基準值。 Note 2: “○” indicates that the percentage content of the restricted substance does not exceed the percentage of reference value of presence.</p> <p>備考3. “—”係指該項限用物質為排除項目。 Note 3: The “—” indicates that the restricted substance corresponds to the exemption.</p>						


## D Regulatory information

# Regulatory 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.

## Canada - Industry Canada ICES-003 Compliance Statement

CAN ICES-3(B)/NMB-3(B)


## 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.
-----------------------	--

## 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.

## 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.

## Laser statement for Finland

### Luokan 1 laserlaite

Klass 1 Laser Apparat

HP LaserJet 1020 printer, laserkirjoitin on käyttäjän kannalta turvallinen luokan 1 laserlaite. Normaalisissa käytössä kirjoittimen suojakotelointi estää lasersäteen pääsyn laitteen ulkopuolelle. Laitteen turvallisuusluokka on määritetty standardin EN 60825-1 (2007) mukaisesti.

### VAROITUS !

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

### WARNING !

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 1020 printer - 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.

### WARNING !

Om laserprinterns skyddshölje öppnas då apparaten är i funktion, utsättas användaren för osynlig laserstrålning. Betrakta ej strålen.

Tiedot laitteessa käytettävän laserdiodin säteilyominaisuuksista: Aallonpituus 775-795 nm Teho 5 m W Luokan 3B laser.

## **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.

Das Gerät ist kein Bildschirmarbeitsplatz gemäß BildscharbV. Bei ungünstigen Lichtverhältnissen (z. B. direkte Sonneneinstrahlung) kann es zu Reflexionen auf dem Display und damit zu Einschränkungen der Lesbarkeit der dargestellten Zeichen kommen.

## **Eurasian Conformity (Belarus, Kazakhstan, Russia)**





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# E HP parts and accessories

This appendix provides information on the following topics:

- [Ordering supplies](#)
- [Using HP print cartridges](#)

## Ordering supplies

You can increase the printer's capabilities with optional accessories and supplies. Use accessories and supplies specifically designed for the HP LaserJet 1020 printer to ensure optimum performance.

**Table E-1 Ordering information**

	Item	Description or use	Order number
Printing supplies	HP Multipurpose paper	HP brand paper for a variety of uses (1 box of 10 reams, 500 sheets each). To order a sample, in the U.S., call 800-471-4701.	HPM1120
	HP LaserJet paper	Premium HP brand paper for use with HP LaserJet printers (1 box of 10 reams, 500 sheets each). To order a sample, in the U.S., call 800-471-4701.	HPJ1124
	HP LaserJet transparency film	HP brand transparency film for use with HP LaserJet monochrome printers.	92296T (letter) 92296U (A4)
Print cartridges for the HP LaserJet 1020 printer	Print cartridges	Replacement print cartridges for the HP LaserJet 1020 printer.  2,000 page cartridge  See <a href="#">Print cartridge life expectancy on page 113</a> for more information	Q2612A
Supplementary documentation	<i>HP LaserJet printer family print media guide</i>	A guide to using paper and other print media with HP LaserJet printers.	5851-1468  <b>NOTE:</b> This document can be downloaded from <a href="http://www.hp.com/support/ljpaperguide/">http://www.hp.com/support/ljpaperguide/</a> .
Replacement parts	Media pickup roller	Used to pick the media from the input tray and advance it through the printer.	RL1-0266
	Separation pad for the printer	Used to keep multiple sheets from feeding through the printer path.	RL1-0269
Accessory part	Input tray cover	Used to cover the media in the input tray.	Q2460-40004 (U.S.) Q2460-40005 (Europe)


# Using HP print cartridges

The following sections provide information about HP print cartridges and instructions for redistributing toner and changing the print cartridge.

## HP policy on non-HP print cartridges

HP Company cannot recommend the use of non-HP print cartridges, either new, refilled, or remanufactured. Since they are not HP products, HP cannot influence their design or control their quality. Service or repair that is required as a result of using non-HP print cartridges will not be covered under the printer warranty.

---

 **NOTE:** The warranty does not apply to defects resulting from software, interfacing, or parts not supplied by HP.

---

## HP anticounterfeit Web site

Go to [www.hp.com/go/anticounterfeit](http://www.hp.com/go/anticounterfeit) when you install an HP toner 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 toner cartridge might not be a genuine HP toner cartridge if you notice the following:

- The supplies status page indicates that a non-HP supply is installed.
- You are experiencing a high number of problems with the cartridge.
- The cartridge does not look like it usually does (for example, the packaging differs from HP packaging).

## Storing print cartridges

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

---

 **CAUTION:** To prevent damage to the print cartridge, minimize its exposure to direct light.


---

Some HP LaserJet print cartridge packages are stamped with an alphanumeric date code. This code represents a 30-month period beyond the date of production that facilitates efficient inventory management processes between HP and its resellers. It does not serve as an indication of toner life (shelf-life) or relate in any way to warranty terms and conditions.

## Print cartridge life expectancy

The life of the print cartridge depends on the amount of toner that your print jobs require. When printing text at approximately 5% coverage, the print cartridge for the HP LaserJet 1020 printer lasts for an average of 2,000 pages.

---

 **NOTE:** It is possible that the toner supply will outlast the mechanical parts in the print cartridge. If the 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.

---

This life expectancy assumes that you set the print density to 3 and turn EconoMode off. (These are the default settings.)

## Saving toner

While in EconoMode, the printer uses less toner on each page. Selecting this option will extend the life of the print cartridge and reduce your cost per page, but it will reduce print quality. HP does not recommend the full-time use of EconoMode.

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# Index

## A

accessories, ordering 112  
acoustics emissions 73  
anticounterfeit supplies 92, 113  
Attention light 4

## B

batteries included 103  
blank pages 60  
booklets, printing 35

## C

canceling a print job 15  
cardstock  
    guidelines for using 20  
    printing 31  
cartridges  
    non-HP 91  
    recycling 103  
    warranty 90  
changing  
    pickup roller 43  
    print cartridge 51  
    separation pad 47  
choosing  
    media 22  
    paper 22  
cleaning  
    media path 41  
    pickup roller 46  
    print cartridge area 40  
    printer 40  
clearing jams 68  
configuration, HP LaserJet 1020  
    printer 3  
conserving toner 114  
considerations  
    media 11  
control panel 5

counterfeit supplies 92, 113  
custom-size media, printing 31  
customer support  
    online 99

## D

disposal, end-of-life 103  
door, print cartridge 4  
duplex (two-sided) printing,  
    manual 32

## E

electronic hardware recycling 104  
end-of-life disposal 103  
envelopes  
    guidelines for using 19  
    printing 25  
environmental specifications 72  
environmental stewardship  
    program 101  
errors, software 62  
Eurasian conformity 110

## F

Finnish laser safety statement 109  
forms, printing 30  
fraud Web site 92, 113

## G

garbled text 60  
graphics  
    missing 60  
    poor quality 61  
guides, media  
    main input tray 6  
    priority feed slot 6

## H

hardware recycling, Brazil 104

heavy media, guidelines for using  
    20

HP Customer Care 99  
HP fraud Web site 92, 113

## I

improving print quality 63  
information, links to selected  
    topics 2  
input tray  
    loading media 24  
    loading priority feed slot 24  
    main 4, 6  
    priority feed slot 4, 6

## J

jams, clearing 68

## K

Korean EMC statement 108

## L

labels  
    guidelines for using 18  
    printing 29  
laser safety statements 108, 109  
letterhead  
    guidelines for using 21  
    printing 30  
license, software 94  
life expectancy, print cartridge 113  
lights  
    Attention 4  
    Ready 4  
    status light patterns 56  
loading media  
    150-sheet input tray 24  
    priority feed slot 24

- M**
- main input tray
  - loading 24
  - location 4
  - media path 6
- manual feed printing 14
- manual two-sided printing 32
- material restrictions 103
- Material Safety Data Sheet (MSDS) 106
- media
  - clearing jams 68
  - guidelines for use 18
  - loading 24
  - optimizing print quality for media types 17
  - printing custom-size media 31
  - printing manually 14
  - recommended 22
  - selecting 22
  - supported sizes 11
  - types that might damage the printer 22
  - types to avoid 22
- media guides
  - main input tray 6
  - priority feed slot 6
- media paths
  - cleaning 41
  - main input tray 6
  - output bin 6
  - overview 6
  - priority feed slot 6
- memory chip, toner cartridge
  - description 93
- mercury-free product 103
- missing graphics 60
- missing text 60
- multiple pages, printing on a single sheet of paper 34
  
- N**
- N-up printing 34
- non-HP supplies 91
  
- O**
- online help, printer properties 9
- online support 99
- on/off switch 4
- operating systems, supported 8
  
- optimizing print quality for media types 17
- ordering supplies and accessories 112
- output bin 4, 6
- output media support 4
- overview, printer 4
  
- P**
- paper
  - problems and solutions 18
  - selecting 22
  - supported sizes 11
  - using 18
- paper handling problems 58
- pickup roller
  - changing 43
  - cleaning 46
- port, USB location 4
- power receptacle 4
- power switch 4
- preprinted forms, guidelines 21
- print cartridge
  - changing 51
  - door 4
  - life expectancy 113
  - redistributing toner 49
  - storing 113
  - using HP cartridges 113
- print cartridge area, cleaning 40
- print quality
  - creases 66
  - curl 66
  - dropouts 63
  - gray background 64
  - light or faded print 63
  - loose toner 65
  - misformed characters 65
  - optimizing for media types 17
  - page skew 66
  - settings 16
  - toner scatter outline 67
  - toner smear 64
  - toner specks 63
  - vertical lines 64
  - vertical repetitive defects 65
  - wave 66
  - wrinkles 66
- print settings, changing 9
  
- printer
  - cleaning 40
  - configuration 3
  - connections 7
  - control panel 5
  - overview 4
  - software 8
  - software problems 62
  - specifications 71
- printer driver
  - installing 8
  - sites for download 2
  - Windows 8
- printer media guides
  - main input tray 6
  - priority feed slot 6
- printer properties
  - accessing 8
  - online help 9
- printer, specifications 76
- printing
  - booklets 35
  - canceling 15
  - cardstock 31
  - custom-size media 31
  - envelopes 25
  - forms, preprinted 30
  - labels 29
  - letterhead 30
  - manual feed 14
  - multiple pages on a single sheet of paper 34
  - N-up 34
  - on both sides of the paper (manual) 32
  - transparencies 29
  - watermarks 37
- priority feed slot
  - loading 24
  - location 4
  - overview 6
  
- R**
- Ready light 4
- recycling 103
  - electronic hardware 104
- redistributing toner 49
- removing a jammed page 68
- removing jams 68
- replacement parts 112

## S

- safety statements 108, 109
- saving toner 114
- selecting
  - media 22
  - paper 22
- separation pad
  - changing 47
- settings
  - changing default settings for Windows 9
  - changing for current software only 9
- settings, print quality 16
- size, media 11
- slot
  - priority feed 4
- software
  - installing 8
  - printer drivers, Windows 8
  - problems 62
  - sites for download 2
  - software license agreement 94
  - supported operating systems 8
- specifications
  - acoustics 73
  - capacities and ratings 76
  - electrical 74
  - environmental 72
  - memory 77
  - physical 75
- status light patterns 56
- supplies
  - counterfeit 92, 113
  - non-HP 91
  - recycling 103
- supplies, ordering 112
- support
  - online 99
- support, websites 2
- switch, power 4

## T

- technical support
  - online 99
- text
  - garbled 60
  - missing 60
- toner
  - changing the print cartridge 51

- cleaning print cartridge area 40
- conserving 114
- loose 65
- low 63
- print cartridge door 4
- redistributing 49
- scatter outline 67
- smear 64
- specks 63
- storing print cartridges 113
- toner cartridges
  - memory chips 93
  - non-HP 91
  - recycling 103
  - warranty 90
- transparencies
  - guidelines for using 19
  - printing 29
- tray
  - main input 4
- troubleshooting
  - blank pages 60
  - contacting HP support 55
  - creases 66
  - curl 66
  - Demo page 54
  - dropouts 63
  - garbled text 60
  - gray background 64
  - incomplete text 60
  - light or faded print 63
  - loose toner 65
  - misformed characters 65
  - missing graphics or text 60
  - page skew 66
  - paper handling problems 58
  - poor graphics quality 61
  - print quality 55
  - printed page and expectations 55
  - printed page differs from on-screen page 60
  - printer setup 54
  - printer software problems 62
  - printer-computer communication 55
  - Ready light 54
  - solutions 54
  - toner scatter outline 67
  - toner smear 64

- toner specks 63
- vertical lines 64
- vertical repetitive defects 65
- wave 66
- wrinkles 66
- two-sided printing, manual 32

## U

- USB port, location 4
- user guide links 2
- using HP print cartridges 113

## W

- warranty
  - customer self repair 98
  - license 94
  - product 80
  - toner cartridges 90
- waste disposal 103
- watermarks, printing 37
- Web sites
  - customer support 99
  - fraud reports 92, 113
  - Material Safety Data Sheet (MSDS) 106
- web-based support 2

