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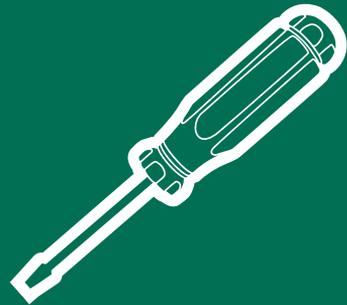


**hp** LaserJet  
1150 • 1300 • 1300n



i n v e n t

**service**



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hp LaserJet 1150 and  
hp LaserJet 1300 series

service manual \_\_\_\_\_

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## Safety Information

### WARNING!

#### Potential Shock Hazard

Always follow basic safety precautions when using this product to reduce risk of injury from fire or electric shock.

- 1 Read and understand all instructions in the user guide.
- 2 Observe all warnings and instructions marked on the product.
- 3 Use only a grounded electrical outlet when connecting the printer to a power source. If you do not know whether the outlet is grounded, check with a qualified electrician.
- 4 Do not touch the contacts on the end of any of the sockets on the printer. Replace damaged cords immediately.

- 5 Unplug this product from wall outlets before cleaning.
- 6 Do not install or use this product near water or when you are wet.
- 7 Install the product securely on a stable surface.
- 8 Install the product in a protected location where no one can step on or trip over the power cord and the power cord will not be damaged.
- 9 If the product does not operate normally, see the online user guide.
- 10 Refer all servicing questions to qualified personnel.

Information regarding FCC Class B, Parts 15 and 68 requirements can be found in the user guide.

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# 1 Product information

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# Introduction

The HP LaserJet 1150 and 1300 series printers are designed to print documents easily with the laser-quality you have come to expect from an HP LaserJet printer.

## Hardware description

The printer provides 1200 dot-per-inch (dpi) printing.

The HP LaserJet 1150 prints 18 pages per minute (ppm) on letter-size paper or 17 ppm on A4. The HP LaserJet 1300 prints 20 ppm on letter-size paper or 19 ppm on A4. With 600 x 2 (Fast Res 1200) printing resolution, these printers have exceptional text and graphics print quality. The simple control panel and improved paper handling make this product very easy to use.

The printer's main input tray has a 250-sheet capacity for continuous, multiple-page printing. Manual, single-sheet printing is possible through the priority input tray. Both trays are center-justified for all supported paper sizes. The printer output bin holds up to 125 sheets.

The printer has a very fast first-page-out, at less than 10 seconds. The formatter board contains 8 MB of ROM, 8 MB of RAM, and an embedded 32-bit Coldfire V3 processor. The HP LaserJet 1300 has one DIMM slot available for DIMM expansion (supporting an 8 MB, 16 MB, 32 MB, or 64 MB DIMM).

The printer engine has a 1,000 average (10,000 peak) page-per-month duty cycle. The standard print cartridge life is 2,500 pages, and, for the HP LaserJet 1300 series, the high capacity print cartridge life is 4,000 pages.

The HP LaserJet 1300n printer is network ready with an HP Jetdirect 200m print server included.

## Firmware description

The firmware in the printer includes:

- Host-based and PCL 5e printing
- Enhanced PCL 6 with status readback (HP LaserJet 1300 only)
- 80 TrueType™ fonts, plus Cyrillic, Greek, Hebrew, and Arabic
- Pixel placement, mosaic characters
- Memory Enhancement technology (MEt) with hardware compression and decompression

The printer firmware also has Resolution Enhancement technology (REt) and EconoMode functionality.

# Product specifications

**Table 1. Physical specifications**

Category	Specification
Height	253 mm (10 inches)
Depth	486 mm (19.1 inches)
Width	415 mm (16.3 inches)
Weight (cartridge installed)	8.5 kg (18.6 lb)

**Table 2. Environmental specifications**

Category	Specification
Operating environment (printer plugged into an AC outlet)	<ul style="list-style-type: none"><li>• Temperature: 10° to 32.5° C (50° to 90.5° F)</li><li>• Humidity: 20% to 80% relative humidity (no condensation)</li></ul>
Storage environment (printer not plugged into an AC outlet)	<ul style="list-style-type: none"><li>• Temperature: 0° to 40° C (32° to 104° F)</li><li>• Humidity: 10% to 80% relative humidity (no condensation)</li></ul>

**Table 3. Power specifications**

Category	Specification
<b>Power requirements</b>	<ul style="list-style-type: none"> <li>• 110 Vac (<math>\pm 10\%</math>), 60 (<math>\pm 3</math>) Hz; 127 Vac (<math>\pm 10\%</math>), 60 (<math>\pm 2</math>) Hz</li> </ul> <p style="text-align: center;">-Or-</p> <ul style="list-style-type: none"> <li>• 220 Vac (<math>\pm 10\%</math>), 50/60 (<math>\pm 2</math>) Hz</li> <li>• 240 Vac (<math>\pm 10\%</math>), 50 (<math>\pm 2</math>) Hz</li> </ul> <hr style="width: 20%; margin-left: 0;"/> <p><b>Note</b> Power sources are not interchangeable.</p>
<b>Power consumption (during printing)</b>	320 W
<b>Power consumption (idle)</b>	7 W
<b>Power consumption (off)</b>	0 W
<b>Minimum recommended circuit capacity</b>	4.5 A at 115 V 2.4 A at 230 V

**Table 4. Performance of HP LaserJet 1150 printer**

Category	Specification
<b>Print resolution</b>	1200 dpi
<b>Print speed</b>	18 ppm (Letter) 17 ppm (A4)

**Table 5. Performance of HP LaserJet 1300 series printer**

Category	Specification
<b>Print resolution</b>	1200 dpi
<b>Print speed</b>	20 ppm (Letter) 19 ppm (A4)

**Table 6. Print operating acoustical emissions specifications**

<b>Category</b>	<b>Specification</b>
Sound Power Level, $L_{WA_d}$ (1 bel = 10 decibels)	6.3 Bels(A)
Sound Pressure Level, $L_{pAm}$ (operator position)	63 dB(A)
Sound Pressure Level, $L_{pAm}$ (bystander position)	63 dB(A)

**Table 7. Skew specifications**

<b>Category</b>	<b>Specification</b>
<b>Print skew—left</b>	0.8% (2 mm over 250 mm in length) for cut-sheet media  1.5% (3.3 mm over 220 mm in length) for cut-sheet media  0.87 (1.65 mm over 190 mm in width) for cut-sheet media
<b>Print skew—right</b>	1.5% (3.3 mm over 220 mm in width) for envelopes, postcards, A5, and cut-sheet media
<b>Cut-sheet leading edge skew</b>	0.87% (1.6 mm over 190 mm in width)

# Model and serial numbers

The model number and serial number are listed on an identification label located on the inside of the print cartridge door. The serial number contains information about the country/region of origin, revision level, production code, and production number of the printer. The label also contains power rating and regulatory information.

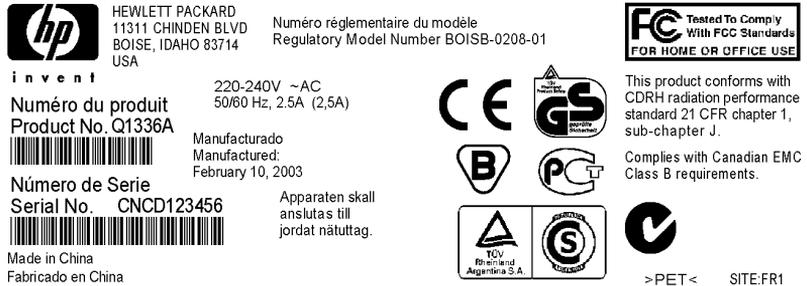


Figure 1. HP LaserJet 1150 printer label (220 volt)

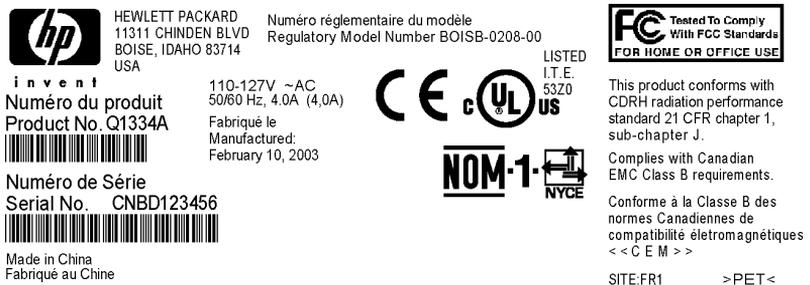


Figure 2. HP LaserJet 1300 printer label (110 volt)

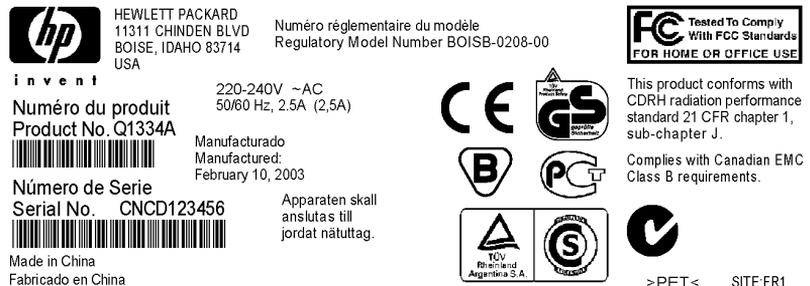
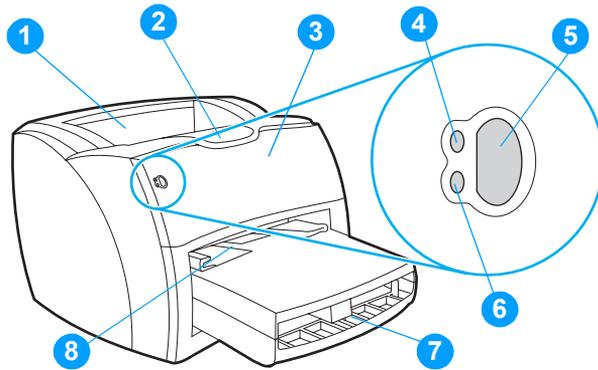


Figure 3. HP LaserJet 1300 printer label (220 volt)

# Overview of printer

## Front and side view

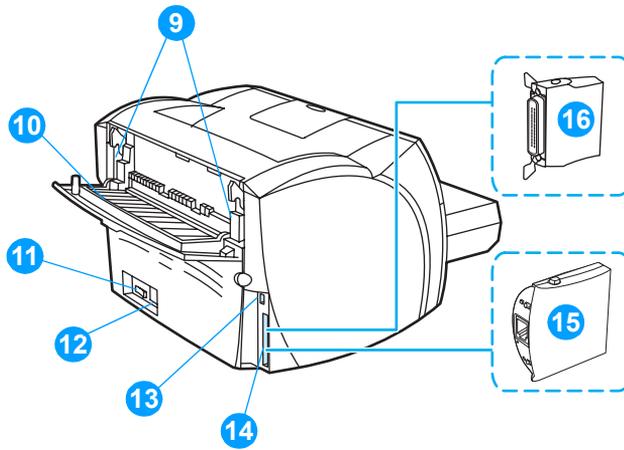


**Figure 4.**

### Front and side view

- 1 Printer output bin
- 2 Long media extension
- 3 Print cartridge door
- 4 Ready light
- 5 Go button and light
- 6 Attention light
- 7 Main input tray
- 8 Priority input tray

## Back and side view



**Figure 5.** Back and side view

- 9** Fuser pressure release levers
- 10** Straight-through output door
- 11** On/off switch
- 12** Power receptacle
- 13** USB port
- 14** Parallel port (HP LaserJet 1150 printer)  
LIO connectivity slot (HP LaserJet 1300 series)
- 15** HP Jetdirect print server (HP LaserJet 1300n printer only)
- 16** Parallel LIO adaptor (HP LaserJet 1300 series)

# Warranty statement

DURATION OF WARRANTY: One year from date of purchase.

- 1 HP warrants to you, the end-user customer, that HP hardware, accessories, and supplies, 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 like-new.
- 2 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 media which does not execute its programming instructions due to such defects.
- 3 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.
- 4 HP products may contain remanufactured parts equivalent to new in performance or may have been subject to incidental use.
- 5 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 (d) improper site preparation or maintenance.
- 6 HP MAKES NO OTHER EXPRESS WARRANTY OR CONDITION WHETHER WRITTEN OR ORAL. TO THE EXTENT ALLOWED BY LOCAL LAW, ANY IMPLIED WARRANTY OR CONDITION OR MERCHANTABILITY, SATISFACTORY QUALITY, OR FITNESS FOR A PARTICULAR PURPOSE IS LIMITED TO THE DURATION OF THE EXPRESS WARRANTY SET FORTH ABOVE. 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.

- 7 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.

FOR CONSUMER TRANSACTIONS IN AUSTRALIA AND NEW ZEALAND, 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.

## Extended warranty

For the latest information on HP SupportPack options available for the HP LaserJet 1150 and 1300 series printers, see <http://lookup.supportpack.hp.com>. You will need the HP hardware product number for the product. See table 8 for these product numbers.

**Table 8. HP hardware product numbers**

Product	Product number
HP LaserJet 1150	Q1336A
HP LaserJet 1300	Q1334A
HP LaserJet 1300n	Q1335A
Optional 250-sheet paper feeder for the HP LaserJet 1300 series	Q2485A

## Limited warranty for print cartridge life

This HP print cartridge is warranted to be free from defects in materials and workmanship for cartridge life (until the HP toner is depleted).

Your HP toner is depleted when you begin to see faded or light type on your printed page. HP will, at HP's option, either replace products which prove to be defective or refund your purchase price.

The warranty does not cover cartridges which have been refilled, are emptied, abused, misused, or tampered with in any way.

This limited warranty gives you specific legal rights. You may have other rights which vary from state to state, province to province, and country/region to country/region.

To the extent allowed by applicable law, in no event shall Hewlett-Packard Company be liable for any incidental, consequential, special, indirect, punitive, or exemplary damages or lost profits from any breach of this warranty or otherwise.

In the event that your product proves to be defective, please return it to place of purchase with a written description of the problem.

## Print cartridge information

The print cartridge is designed to simplify replacement of the major consumable parts. The print cartridge contains the printing mechanism and a supply of toner.

At five percent page coverage, the standard print cartridge for the HP LaserJet 1150 and 1300 printers will print approximately 2,500 pages. The actual page yield obtained by a customer depends upon factors such as the percentage of coverage on the pages printed, toner density setting, EconoMode, and environmental conditions (temperature and humidity).

### **Print cartridge date stamp**

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 in order to facilitate efficient inventory

management processes between HP and its resellers. It does not serve as an indication of toner life or relate in any way to warranty terms and conditions.

## **Refilled print cartridges**

While Hewlett-Packard does not prohibit the use of refilled print cartridges during the warranty period or while the printer is under a maintenance contract, it is not recommended for the following reasons:

- Repairs resulting from the use of refilled print cartridges are not covered under Hewlett-Packard warranty or maintenance contracts.
- Hewlett-Packard has no control or process to ensure that a refilled print cartridge functions at the high level of reliability of a new HP LaserJet print cartridge. Hewlett-Packard also cannot predict the long term reliability effect on the printer from using different toner formulations found in refilled cartridges.
- The print quality of HP LaserJet print cartridges influences the customer's perception of the printer. Hewlett-Packard has no control over the actual print quality of a refilled print cartridge.

## **HP LaserJet printing supplies**

In many countries/regions, this product's printing supplies (such as print cartridge, drum, and fuser) can be returned to Hewlett-Packard through the HP printing supplies returns and recycling program. This easy-to-use, free takeback program is available in over 48 countries/regions. Multilingual program information and instructions are included in every new HP print cartridge and consumables package.

## **HP printing supplies returns and recycling program information**

Since 1990, the HP printing supplies returns and recycling program has collected millions of used print cartridges that otherwise might have been discarded in the world's landfills. The HP LaserJet print cartridges and consumables are collected and bulk-shipped to our resource and recovery partners who disassemble the print cartridge. After a thorough quality inspection, selected parts are reclaimed for use in new print cartridges. Remaining materials are separated and converted into raw materials for use by other industries to make a variety of useful products.

## U.S. recycling returns

For a more environmentally responsible return of used print cartridges and consumables, Hewlett-Packard encourages you to use bulk returns. Simply bundle two or more print cartridges together and use the single, prepaid, pre-addressed label that is supplied in the package. For more information in the U.S., call (800) 340-2445 or visit the HP LaserJet supplies Web site at <http://www.hp.com/recycle>.

## Non-U.S. recycling returns

Non-U.S. customers should call the local HP sales and service office or visit the <http://www.hp.com/recycle> website more information regarding availability of the HP printing supplies returns and recycle program.

## For more information

For more information on the following HP environmental programs, see <http://www.hp.com/go/environment>.

- 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

## Material safety data sheet

Material safety data sheets (MSDS) can be obtained by contacting the HP LaserJet supplies website at <http://www.hp.com/go/msds>.

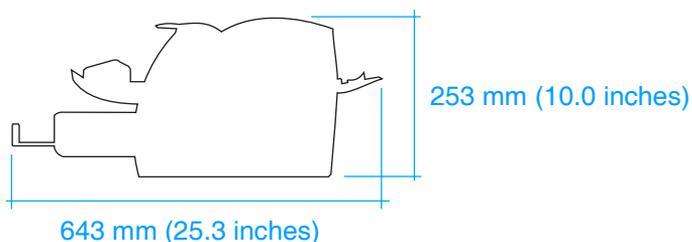
# 2 Installation and operation

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Place the printer on a sturdy, level surface in a well-ventilated, dust-free area that meets the following environmental requirements:

- temperature: 10° to 32.5° C (50° to 90.5° F)
- humidity: 20% to 80% relative humidity (no condensation)
- away from direct sunlight, open flames, and ammonia fumes
- sufficient space around the printer to allow for proper access and ventilation



**Figure 6.** Dimensions of printer

Sample of manual. Download All 224 pages at:

<https://www.arepairmanual.com/downloads/2003-hp-laserjet-1150-and-1300-series-printer-ser>