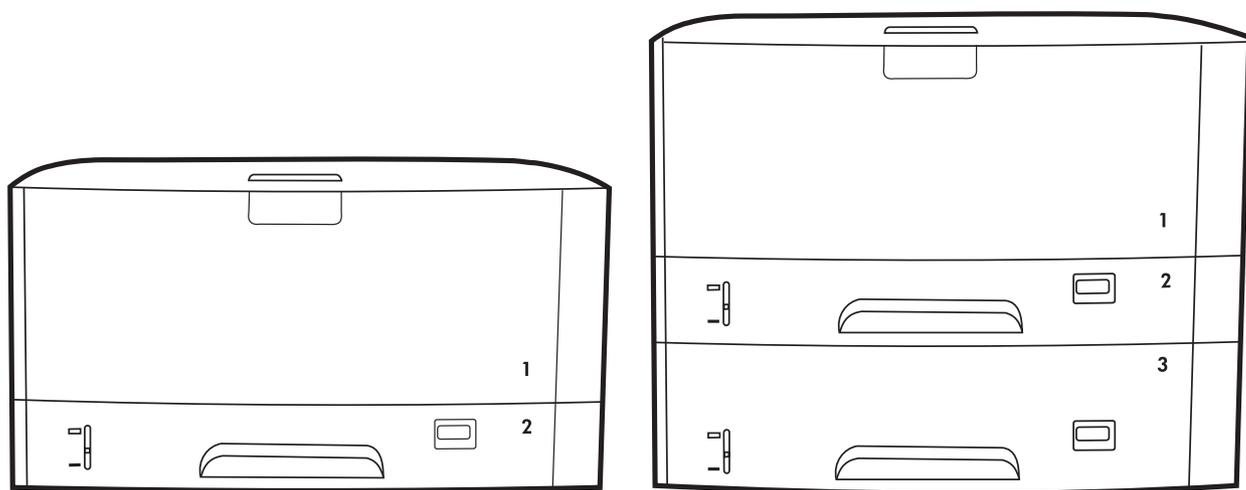


HP LaserJet 5200/5200L Series Printers Service Repair Workshop Manual

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HP LaserJet 5200 Series printers

Service Manual



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1 Product information

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Quick access to printer information

Several references are available for use with this printer.

- **HP LaserJet 5200 Series printers:** www.hp.com/support/lj5200 or www.hp.com/support/lj5200L.

Table 1-1 Printer guides

Guide	Description
Getting started guide	Provides step-by-step instructions for installing and setting up the printer.
HP Jetdirect Embedded Print Server Administrators Guide (Not available for the HP LaserJet 5200L.)	Provides instructions to configure and troubleshoot the HP Jetdirect print server.
Accessory and consumable installation guides (Not available for the HP LaserJet 5200L.)	Provide step-by-step instructions for installing the accessories and supplies. These guides are supplied with the optional printer accessories and supplies.
User guide	Provides detailed information for using and troubleshooting the printer. Available on the printer CD.
Online Help	Provides information about options that are available in the printer drivers. To view a Help file, open the online Help through the printer driver.

Printers at a glance

The HP LaserJet 5200 Series printers are available in the following configurations.

HP LaserJet 5200 Series printers

Table 1-2 HP LaserJet 5200 Series printer configurations

HP LaserJet 5200	HP LaserJet 5200n	HP LaserJet 5200tn	HP LaserJet 5200dtn	HP LaserJet 5200L
<ul style="list-style-type: none"> Prints up to 35 pages per minute (ppm) 48 megabytes (MB) of random access memory (RAM), upgradable up to 512 MB 100-sheet multipurpose tray (tray 1), 250-sheet input tray (tray 2), and 250-sheet output bin Hi-Speed universal serial bus (USB) 2.0 port, IEEE 1284-compliant parallel port, and enhanced input/output (EIO) slot One open dual inline memory module (DIMM) slot Two compact flash memory slots for accessibility 	<p>The features of the HP LaserJet 5200 printer, plus:</p> <ul style="list-style-type: none"> 64 MB RAM instead of 48 MB RAM HP Jetdirect full-featured embedded print server to connect to 10Base-T/100 Base-TX networks 	<p>The features of the HP LaserJet 5200 printer, plus:</p> <ul style="list-style-type: none"> 64 MB RAM instead of 48 MB RAM HP Jetdirect full-featured embedded print server to connect to 10Base-T/100 Base-TX networks 500-sheet input tray (tray 3) 	<p>The features of the HP LaserJet 5200 printer, plus:</p> <ul style="list-style-type: none"> 128 MB RAM instead of 48 MB RAM HP Jetdirect full-featured embedded print server to connect to 10Base-T/100 Base-TX networks 500-sheet input tray (tray 3) Automatic two-sided (duplex) printing 	<ul style="list-style-type: none"> Prints up to 25 ppm 32 MB RAM, upgradable to 128 MB 100-sheet multipurpose tray (tray 1), 250-sheet input tray (tray 2), and 250-sheet output bin Hi-Speed universal serial bus (USB) 2.0 port and IEEE 1284-compliant parallel port One open DIMM slot

Features at a glance

Table 1-3 Features

Feature	Description
Performance	<ul style="list-style-type: none"> 460 MHz processor
User interface	<ul style="list-style-type: none"> Control-panel help Show Me How help topics in the control panel HP Easy Printer Care Software (a Web-based status and troubleshooting tool) Windows® and Macintosh printer drivers Embedded Web server to gain access to support and to order supplies (administrator tool for network-connected models only; not available for the HP LaserJet 5200L)
Printer drivers	<ul style="list-style-type: none"> HP PCL 5e HP PCL 6 PostScript® 3 emulation
Resolution	<ul style="list-style-type: none"> FastRes 1200-produces 1200-dots-per-inch (dpi) print quality for fast, high-quality printing of business text and graphics ProRes 1200-produces 1200-dpi printing for the best quality in line art and graphic images (HP LaserJet 5200 Series printers) Produces 600-dpi print quality for fast, high-quality printing on business text and graphics (HP LaserJet 5200L) and HP FastRes 1200 to create 1200-printing
Storage features	<ul style="list-style-type: none"> Fonts, forms, and other macros Job retention
Fonts	<ul style="list-style-type: none"> 103 built-in scalable PCL, 93 internal Postscript 80 printer-matching screen fonts in TrueType format available with the software solution Additional fonts can be added by installing a CompactFlash font card (not available for the HP LaserJet 5200L)
Accessories	<ul style="list-style-type: none"> Optional 500-sheet input tray (tray 3) (standard on the HP 5200tn and HP LaserJet 5200dtn printers; not available for the HP LaserJet 5200L) Optional duplexer (standard on the HP LaserJet 5200dtn printer; not available for the HP LaserJet 5200L) <div style="border: 1px solid black; padding: 5px; margin-top: 10px;">  <p>NOTE A minimum of 96 MB of total printer memory is needed to be able to print duplex jobs.</p> </div> <ul style="list-style-type: none"> 100-pin 133 MHz dual inline memory modules (DIMMs) CompactFlash cards (not available for the HP LaserJet 5200L) HP Jetdirect 620n Fast Ethernet print server (not available for the HP LaserJet 5200L)
Connectivity	<ul style="list-style-type: none"> IEEE 1284-compliant parallel connection Hi-Speed USB 2.0 connection

Table 1-3 Features (continued)

Feature	Description
	<ul style="list-style-type: none">● HP Jetdirect full-featured embedded print server (standard on the HP LaserJet 5200n, HP LaserJet 5200tn, and HP LaserJet 5200dtn printers; not available for the HP LaserJet 5200L)● HP Web Jetadmin software (not available for the HP LaserJet 5200L)● EIO slot (not available for the HP LaserJet 5200L)
Environmental features	<ul style="list-style-type: none">● Sleep delay setting● ENERGY STAR® qualified
Supplies	<ul style="list-style-type: none">● The supplies status page contains information about toner level, page count, and estimated pages remaining● The printer checks for an authentic HP print cartridge at cartridge installation● Internet-enabled supply-ordering capabilities (using HP Easy Printer Care Software)
Accessibility	<ul style="list-style-type: none">● The online user guide is compatible with text screen-readers● The print cartridge can be installed and removed by using one hand● All doors and covers can be opened by using one hand● Media can be loaded in tray 1 by using one finger

Walkaround

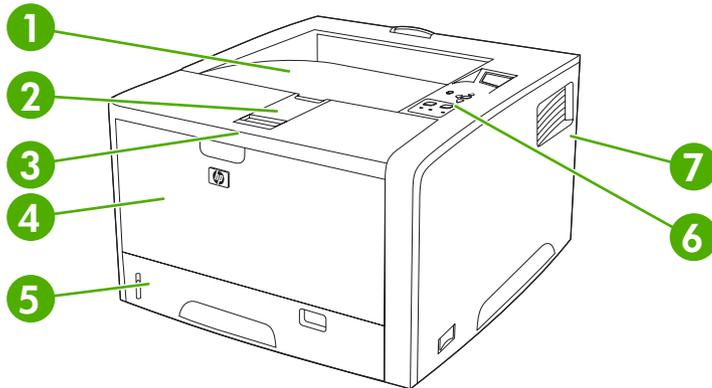


Figure 1-1 Front view

1	Face-down bin
2	Long-media extension
3	Latch to open the front cover (provides access to the print cartridge)
4	Tray 1 (pull to open)
5	Tray 2
6	Control panel
7	Right-side cover (provides access to DIMMs and CompactFlash cards) and EIO slot (CompactFlash and EIO slot not available for the HP LaserJet 5200L)

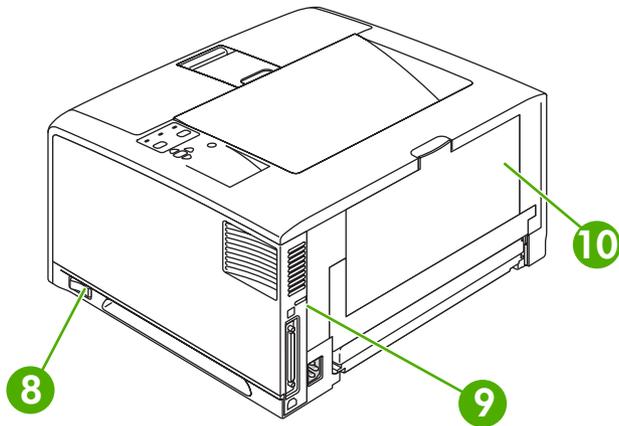


Figure 1-2 Back view

8	On/off switch
9	Interface ports
10	Face-up bin (pull to open)

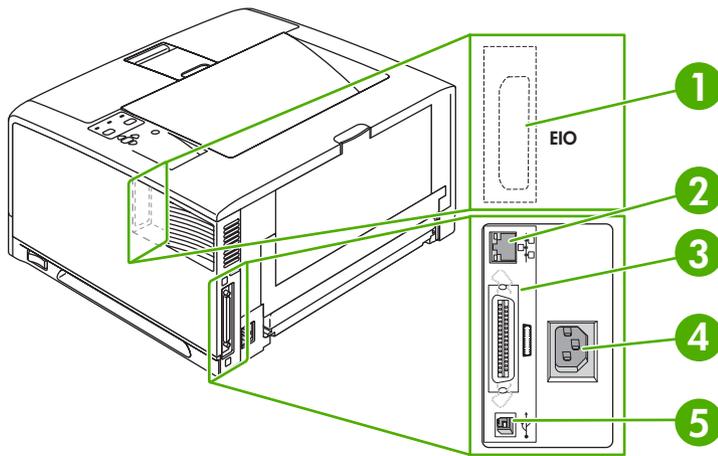


Figure 1-3 Interface ports

1	EIO slot (not available for the HP LaserJet 5200L)
2	Network connection (HP LaserJet 5200n, 5200tn, and 5200dtn printers only)
3	IEEE 1284B-compliant parallel connection
4	Power-plug connection
5	Hi-Speed USB 2.0 connection

Control-panel overview

The control panel provides controls for printer functions and shows messages about the printer, print jobs, and supplies status.

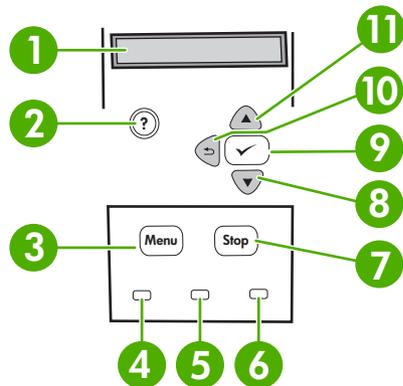


Figure 1-4 Control panel buttons and lights

Number	Button or light	Function
1	Control-panel display	<ul style="list-style-type: none"> Shows status information, menus, help information, and error messages.
2	Help (?) button	<ul style="list-style-type: none"> Provides information about the message on the control-panel display.
3	Menu button	<ul style="list-style-type: none"> Opens and closes menus.
4	Ready light	<ul style="list-style-type: none"> On: The printer is online and ready to accept data to print. Off: The printer cannot accept data because it is offline (paused) or has experienced an error. Blinking: The printer is going offline. The printer stops processing the current print job and expels all of the active pages from the paper path.
5	Data light	<ul style="list-style-type: none"> On: The printer has data to print, but is waiting to receive all of the data. Off: The printer has no data to print. Blinking: The printer is processing or printing the data.
6	Attention light	<ul style="list-style-type: none"> On: The printer has experienced a problem. Make note of the message on the control-panel display, and then turn the printer off and on. Off: The printer is functioning without error. Blinking: Action is required. See the control-panel display.
7	Stop button	<ul style="list-style-type: none"> Cancels the current print job in process and expels all of the active pages from the paper path. The time that it takes to cancel the job depends on the size of the print job. (Press the button only once.) Also clears continuable errors that are associated with the canceled job.

		 NOTE The control-panel lights cycle while the print job is cleared from both the printer and the computer, and then the printer returns to the Ready state.
8	Down (▼) button	<ul style="list-style-type: none"> • Navigates to the next item in the list, or decreases the values of numeric items.
9	Select (✓) button	<ul style="list-style-type: none"> • Clears an error condition when the condition is clearable • Saves the selected value for an item • Performs the action that is associated with the item that is highlighted on the control-panel display
10	Back (↶) button	<ul style="list-style-type: none"> • Backs up one level in the menu tree or backs up one numeric entry • Closes menus if held down for more than 1 second
11	Up (▲) button	<ul style="list-style-type: none"> • Navigates to the previous item in the list, or increases the value of numeric items

Printer software

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

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



NOTE For a list of printer drivers and updated HP printer software, go to www.hp.com/go/lj5200_software or www.hp.com/go/lj5200L_software.

Printer drivers

Printer drivers allow you to gain access to the printer features and allow the computer to communicate with the printer (using a printer language). Check the installation notes and readme files on the printer CD for additional software and languages.

The HP LaserJet 5200 Series printers uses the PCL 5e, PCL 6, and PostScript 3 emulation printer description language (PDL) drivers.

- Use the PCL 6 printer driver for the best overall performance.
- Use the PCL 5 printer driver for general office printing.
- Use the PS driver for printing from PostScript-based programs, for compatibility with PostScript Level 3 needs, or for PS flash font support.

Operating system	PCL 5e	PCL 6	PS 3 emulation
Windows 98, Windows Millennium (Me)	✓	✓	✓
Windows 2000	✓	✓	✓
Windows XP (32-bit)	✓	✓	✓
Windows Server 2003 (32-bit)	✓	✓	✓
Windows Server 2003 (64-bit)	✓	✓	✓
Mac OS X V10.2 and later			✓

¹ Not all printer features are available from all drivers or operating systems.

² For Windows 2000 and Windows XP (32-bit and 64-bit), download the PCL 5 driver from www.hp.com/go/lj5200_software or www.hp.com/go/lj5200L_software.

³ For Windows XP (64-bit), download the PCL 6 driver from www.hp.com/go/lj5200_software or www.hp.com/go/lj5200L_software.

The printer drivers include online Help that has instructions for common printing tasks and also describes the buttons, checkboxes, and drop-down lists that are in the printer driver.

Driver Autoconfiguration

The HP LaserJet PCL 6 and PCL 5e drivers for Windows and the PS drivers for Windows 2000 and Windows XP feature automatic discovery and driver configuration for printer accessories at the time of installation. Some accessories that the Driver Autoconfiguration supports are the duplexing unit, optional