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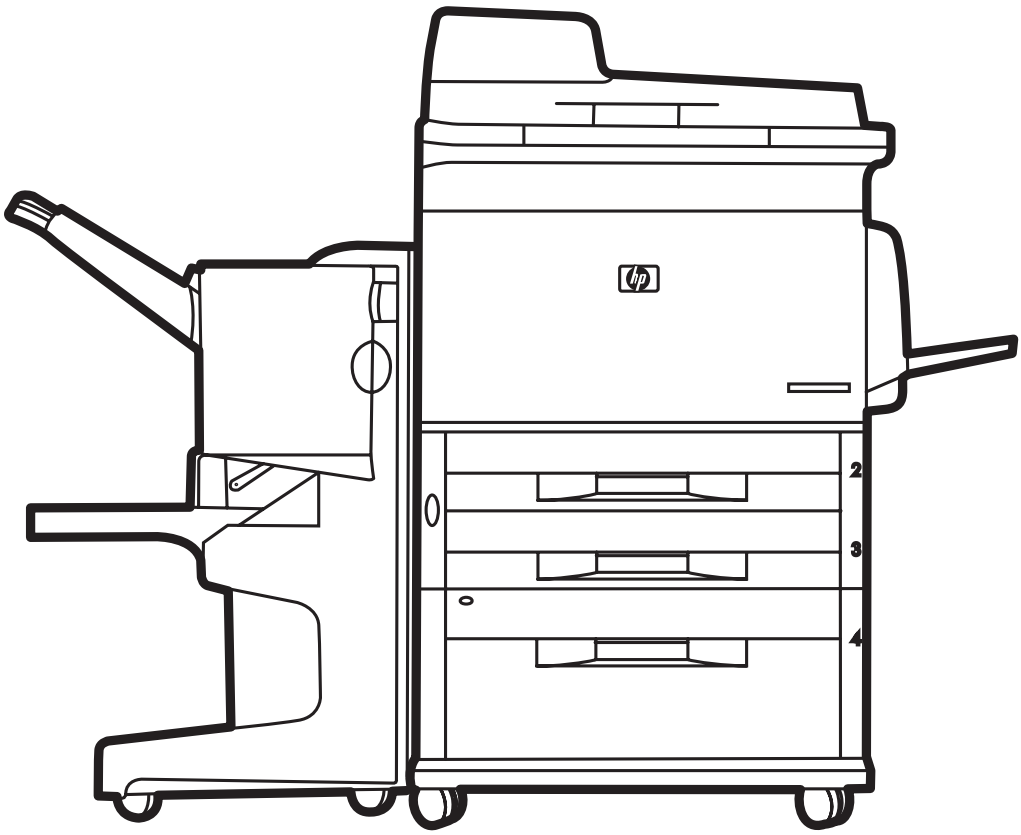
HP LaserJet M9040/9050 MFP Service Manual



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HP LaserJet M9040/9050 MFP Series
Service Manual

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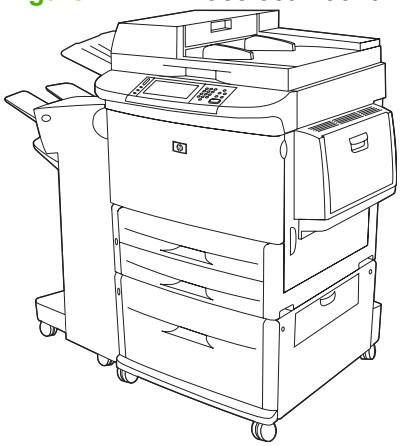
1 Product basics

- Product introduction
- Product features
- Product walkaround
- Output devices

Product introduction

Figure 1-1 HP LaserJet M9040 MFP and HP LaserJet M9050 MFP



The HP LaserJet M9040 MFP and HP LaserJet M9050 MFP come standard with the following items:

- 100-sheet multipurpose input tray (Tray 1)
- Two 500-sheet input trays
- One 2,000-sheet input tray
- Automatic document feeder (ADF)
- HP Jetdirect embedded print server for connecting to a 10/100/1000Base-TX network (Gigabit support)
- 384 megabytes (MB) of random access memory (RAM)
- Duplexer
- Hard drive
- Output device

Product features

The HP LaserJet M9040 MFP and HP LaserJet M9050 MFP are designed to be shared by a workgroup. The product is a standalone copier that does not require connection to a computer. With the exception of network printing, you can select all functions at the product control panel.

Functions

- Two-sided copying and printing
- Image modification
- Color digital sending
- Black-and-white printing and copying
- Wide-format printing
- Document finishing

Speed and throughput

- 50 images per minute (ipm) when scanning and printing on letter-size or International Standards Organization (ISO) A4-size paper (HP LaserJet M9050 MFP only)
- 40 ipm when scanning and printing on letter-size or ISO A4-size paper (HP LaserJet M9040 MFP only)
- 25% to 400% scalability when using the scanner glass
- 25% to 200% scalability when using the automatic document feeder (ADF)
- Transmit Once, Raster Image Processing (RIP) ONCE technology
- Eight-seconds to first page
- Duty cycle of up to 300,000 images per month
- 533 megahertz (MHz) microprocessor

Resolution

- 600 dots per inch (dpi) with Resolution Enhancement technology (REt)
- FastRes 1200 provides 1200 dpi quality at full speed
- Up to 256 levels of gray

Memory

- 384 megabytes (MB) of random-access memory (RAM), expandable to 512 MB by using industry-standard 100-pin double data rate dual inline memory modules (DDR DIMMs)
- Memory Enhancement technology (MEt) that automatically compresses data to use RAM more efficiently

User interface

- Graphical display on control panel
- Embedded Web server to gain access to support and order supplies (for network-connected products)

Language and fonts

- HP Printer Command Language (PCL) 6
- HP PCL 5e for compatibility
- Printer Management Language
- 80 scalable TrueType typefaces
- HP postscript level 3 emulation

Copying and sending

- Modes for text, graphics, and mixed text and graphics formats
- A job-interrupt feature (at copy boundaries)
- Multiple pages per sheet
- Operator attendance animations (for example, jam recovery)
- The ability to copy books
- E-mail compatibility
- A sleep feature that saves energy
- One-pass duplex scanning

Print cartridge

- No-shake cartridge design
- Authentic HP print cartridge detection
- Automatic seal-tab removal

Paper-handling

- **Input**
  - **Tray 1 (multipurpose tray):** A multipurpose tray for paper, transparencies, labels, and envelopes. Holds up to 100 sheets of paper or 10 envelopes.
  - **Trays 2 and 3:** Two 500-sheet trays. These trays automatically detect standard paper sizes up to 11 x 17/A3 and allow printing on custom-size paper.
  - **Tray 4 (2000-sheet input tray):** This tray automatically detects standard paper sizes up to 11 x 17/A3 and allows printing on custom-size paper.

- **Automatic Document Feeder (ADF)**: Holds up to 100 sheets of Letter- or A4-size paper or 50 sheets of 11 x 17- or A3-size paper.
- **Duplex printing:** Provides two-sided printing (printing both sides of the paper).

- **Output**

  The product includes one of the following output choices.

  - **3000-sheet stacker:** Stacks up to 3,000 sheets of paper.

    Upper bin (face up): Holds up to 100 sheets of paper.

    Lower bin (face down): Holds up to 3,000 sheets of paper. The output bins are part of the output device.

  - **3000-sheet stapler/stacker:** Provides multiposition stapling for up to 50 sheets of paper per job, or a maximum job height of 5 mm (0.2 in).

    Upper bin (face up): Holds up to 100 sheets of paper.

    Lower bin (face down): Holds up to 3,000 sheets of paper. The output bins are part of the output device.

  - **Multifunction finisher:** Provides 1,000 sheets of stacking capacity, stapling for as many as 50 sheets of paper per document, plus folding and saddle stitching of booklets that contain up to 10 sheets of paper.

    Upper bin (face up and face down): Holds up to 1,000 sheets of paper.

    Lower booklet bin: Holds up to 50 booklets.

  - **8-bin mailbox:** A stacker, collator, or job separator that also provides eight mailbox bins that can be assigned to individual users or workgroups for easy identification and retrieval. The 8-bin mailbox can stack up to 2,000 sheets of A4- or letter-size paper in all the bins.

    Upper bin (face up): Holds up to 125 sheets of paper.

    Bins 1 through 8 (face down): Each holds up to 250 sheets of paper.

Connectivity

- Hi-Speed USB 2.0 connection
- A Foreign Interface Harness (FIH) connection (AUX) for attaching third-party copy-control solutions
- HP Jetdirect embedded print server.
- Optional analog fax card
- Optional HP Jetdirect EIO print server cards
  - HP Jetdirect 625n gigabit Ethernet internal print server

Environmental features

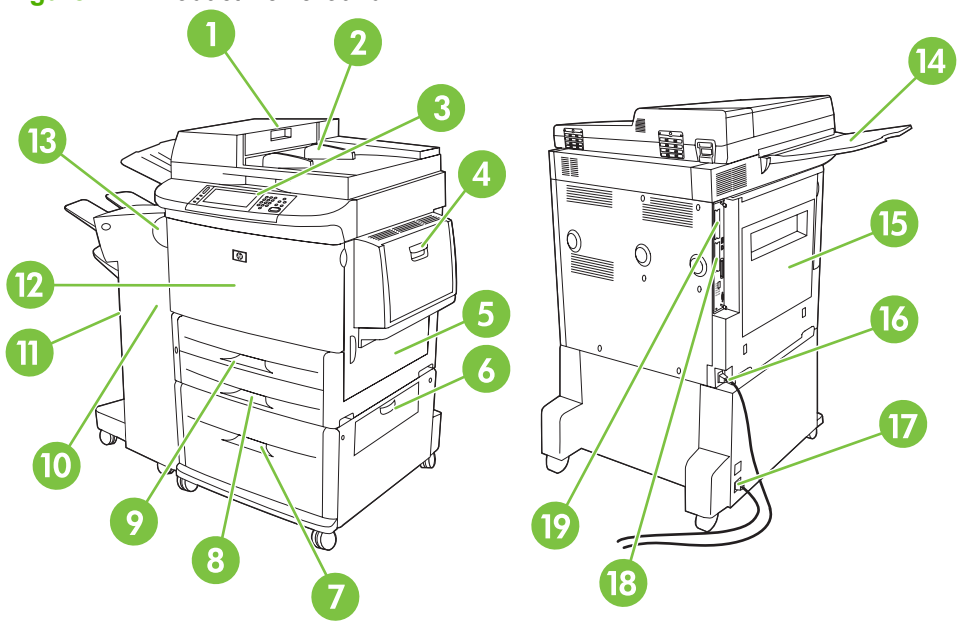
- Sleep setting saves energy (meets Energy Star® guidelines, Version 1.0 HP LaserJet M9050 MFP only)
- To download the latest firmware, go to www.hp.com/go/ljm9040mfp_firmware or www.hp.com/go/ljm9050mfp_firmware and follow the onscreen instructions. To easily send firmware updates to multiple products, use the HP Web Jetadmin software (go to www.hp.com/go/webjetadmin).
- An internal hard disk can be used to store selected print jobs. It can support RIP ONCE technology and can permanently store downloaded fonts and forms in the product. Many items on the hard disk remain even when the product is turned off. Fonts on the hard disk are available to all users.
- An optional EIO hard disk accessory provides additional capacity for storing fonts and forms. The product does not use the EIO hard disk accessory for tasks such as RIP ONCE and stored jobs. The product uses the internal hard disk for these tasks. Both disks can be write-protected through software for additional security.

Security features

- Foreign Interface Harness
- Secure Disk Erase
- Security lock
- Job retention
- Front-panel authentication

Product walkaround

Figure 1-2 Product walkaround



1	Automatic document feeder cover
2	Automatic document feeder (ADF)
3	Control panel with touchscreen graphical display
4	Tray 1
5	Right door
6	Vertical transfer door
7	Tray 4
8	Tray 3
9	Tray 2
10	Left door (behind output device)
11	Output device
12	Front door
13	Duplex printing accessory (inside the product)
14	ADF output bin
15	Left door
16	Printer power cable
17	Tray 4 power cable
18	EIO slot 1
19	Copy processor EIO card

Output devices

This product comes with a 3000-sheet stacker, a 3000-sheet stapler/stacker, a multifunction finisher, or an 8-bin mailbox.

3,000-sheet stacker

- Stacks up to 3,000 sheets of A4- or letter-size paper
- Stacks up to 1,500 sheets of A3- or ledger-size paper
- Can offset jobs, or offset the first page of jobs

The lower bin (face-down bin) is the default bin for all output jobs.

3,000-sheet stapler/stacker

Paper handling features

- Stacks up to 3,000 sheets A4- or letter-size paper
- Stacks up to 1,500 sheets of A3- or ledger-size paper
- Can offset jobs, or offset the first page of jobs

The upper bin (face-up bin) is the default bin for all output jobs.

Stapling information

The 3,000-sheet stapler/stacker can staple 2 to 50 pages of 75 g/m^2 (20 lb) paper or equivalent 5 mm (0.2 in). The pages must be 64 to 199 g/m^2 (17 to 53 lb) of all sizes that the device supports.

- Heavier media might have a stapling limit of fewer than 50 pages.
- If the job is only one sheet, or, if it is more than 50 sheets, it is printed and not stapled.

You can usually select the stapler in the software program or print driver, although some options might be available only in the print driver. See the product user guide for more information.

If the stapler cannot be selected in the program or printer driver, it can be selected through the product control panel. See the product user guide for instructions.

Multifunction finisher

Paper handling features

- Stacks up to 1,000 sheets of A4 and letter paper or up to 500 sheets of A3 and 11 x 17 paper
- Stacks up to 40 booklets of 5 sheets of A3 and ledger paper
- Can offset jobs
- Staples up to 50 sheets of paper per document of A4 and letter paper
- Staples up to 25 sheets of paper per document A3 and ledger paper

- Folds single pages
- Saddle-stitches and folds up to 40 booklets of 5 sheets stacked, or 20 booklets of 10 sheets stacked

Stapling information

The finisher can staple 2 to 50 pages of 75 g/m^2 (20 lb) A-4 or letter-size paper or up to 25 pages of A3 11 x 17 paper or equivalent to 5.5 mm (0.22 in). The pages must be 64 to 199 g/m^2 (17 to 53 lb) of all sizes supported by the device.

Consider these additional points:

- The upper bin (stacker bin) can hold up to 1,000 sheets stacked (not stapled). The multifunction finisher can deliver jobs face up or face down to the upper bin.
- Heavier media might have a stapling limit of fewer than 50 pages.
- If the job is only one sheet, or, if it is more than 50 sheets, it is printed and not stapled.

You can usually select the stapler in the software program or print driver, although some options might be available only in the print driver. See the product user guide for more information.

If the stapler cannot be selected in the program or print driver, it can be selected through the product control panel. See the product user guide for instructions.

Booklets

You can gain access to the booklet feature in some software programs, such as desktop publishing programs. See the user guide that came with your program for information about making booklets.

If you are using a program that does not support booklet making, you can create booklets by using the HP print driver.

NOTE: HP recommends that you use your program to prepare and preview your document for printing, and then use the HP print driver to print and saddle stitch your booklet.

Use the following steps to create a booklet by using the print driver:

- Prepare your booklet: Arrange the pages on a sheet (called booklet imposition) to create a booklet. You can impose your booklet in your software program, or you can use the booklet-printing feature in print driver.
- Add a cover: Add a cover for the first page by selecting a different paper type that is the same size as the rest of the booklet. The cover can be a weight different from the rest of the booklet.
- Use saddle stitching: Paper must be fed into the product short edge first. The product prompts you for rotated paper. The multifunction finisher staples the center of your booklet (called saddle stitching). If your booklet contains only one sheet of paper, the multifunction finisher folds the sheet but does not staple it. If the booklet contains more than one sheet of paper, the multifunction finisher staples the sheets and then folds up to 10 sheets per booklet.

The booklet-printing feature of the multifunction finisher supports the saddle stitch and fold feature for the following paper sizes:

- A3
- A4-Rotated (A4-R)*
- Letter-Rotated (Letter-R)*

- Legal
- Ledger

See the *HP Multifunction Finisher User Guide* at www.hp.com/support/ljm9040mfp or www.hp.com/support/ljm9050mfp for more information about making booklets.

* A4-R and Letter-R are A4- and letter-size paper that is rotated 90˚ in the source tray.

8-bin mailbox

- Handles high-capacity output that increases the product output capacity to 2,000 sheets of standard media
- Uses the upper bin to provide 125 sheets of face-up stacking capacity
- Delivers printed jobs face down to the eight face down bins, and each bin provides 250 sheets of stacking capacity
- Offers stacking options in different operational modes: mailbox, stacker, job separator, and sorter/collator

For more information about the 8-bin mailbox, see the user guide that came with the 8-bin mailbox.

2 Control panel

- Use the control panel
- Use the Administration menu

Product: 2008 HP LaserJet M9040/9050 MFP Series Printer Service Repair Workshop Manual
Full Download: https://www.arepairmanual.com/downloads/2008-hp-laserjet-m90409050-mfp-series-printer-service-repair-workshop-manual/

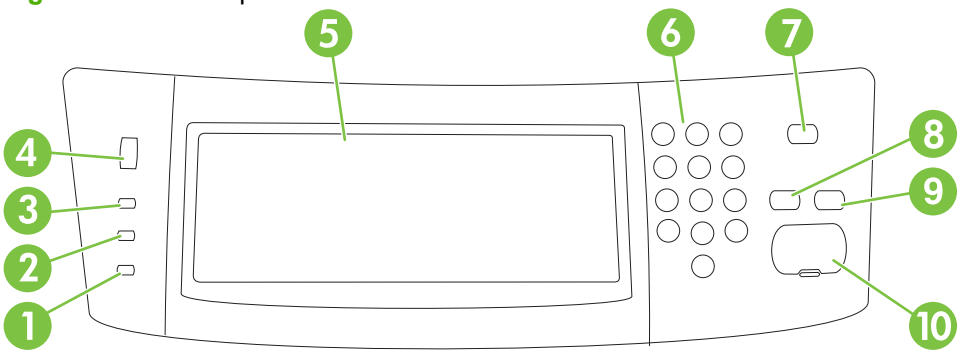
Use the control panel

The control panel has a VGA touchscreen that provides access to all product functions. Use the buttons and numeric keypad to control jobs and the product status. The LEDs indicate overall product status.

Control-panel layout

The control panel includes a touchscreen graphical display, job-control buttons, a numeric keypad, and three light-emitting diode (LED) status lights.

Figure 2-1 Control panel



1	**Attention** light	The Attention light indicates that the product has a condition that requires intervention. Examples include an empty paper tray or an error message on the touchscreen.
2	**Data** light	The Data light indicates that the product is receiving data.
3	**Ready** light	The Ready light indicates that the product is ready to begin processing any job.
4	Brightness-adjustment dial	Roll the dial to control the brightness of the touchscreen.
5	Touchscreen graphical display	Use the touchscreen to open and set up all product functions.
6	Numeric keypad	Allows you to type numeric values for number of copies required and other numeric values.
7	Sleep button	If the product is inactive for a long period of time, it automatically enters a sleep mode. To place the product into sleep mode or to reactivate the product, press the Sleep button.
8	Reset button	Resets the job settings to factory default or user-defined default values.
9	Stop button	Stops the active job. While stopped, the control panel shows the options for the stopped job (for example, if you press the Stop button while the product is processing a print job, the control panel message prompts you to cancel or resume the print job).
10	Start button	Begins a copy job, starts digital sending, or continues a job that has been interrupted.

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