

HP LaserJet 8000, 8000 N, 8000 DN, and HP Mopier 240 Printers



User Guide



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World Wide Web URL - Printer drivers, updated HP printer software, plus product and support information may be obtained from the following URLs:

in the U.S.	http://www.hp.com
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Printer drivers may be obtained from the following sites:

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or the local driver website	http://www.dds.com.tw

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Australia	(61) (3) 9890-0276
Austria	43 (0)1 866 8920
Belgium	32 (0)2 778 38 19



China	(86) (10) 6261-4172
Denmark	45 (0) 45 991 905
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Korea	+82 2 01410 HITEL/GO HPK +82 2 01421 CHOLIAN/GO HPK
Netherlands	31 (0) 495 546909
New Zealand	(64) (9) 356-3660
Norway	47 22 735697
Portugal	351 (0)1 4417232
Switzerland	41 (0) 6 28897988
Taiwan	(886) (2) 923-3233
United Kingdom & Ireland	44 (0) 1344 360 880

America Online - America Online/Bertelsmann is available in the U.S., France, Germany, and U.K. - Printer drivers, updated HP printer software, and support documentation to help answer your questions about HP products are available. Use Keyword HP to start your tour or call 1-800-827-6364 preferred customer # 1118 to subscribe. In Europe, call the appropriate number below:

Austria	0222 58 58 485
France	++353 1 704 90 00
Germany	0180 531 31 64
Switzerland	0848 80 10 11
United Kingdom	0800 279 1234

CompuServe - Printer drivers, updated HP printer software, and interactive sharing of technical information with other members is available on CompuServe's "HP User's forums" (GO HP), or call 1-800-524-3388 and ask for representative #51 to subscribe. (CompuServe is also available in the U.K., France, Belgium, Switzerland, Germany, and Austria.)



Obtaining software utilities and electronic Information for U.S. and Canada:

Phone: (1) (970) 339-7009

Mail:

Hewlett-Packard Co.
P.O. Box 1754
Greeley, CO 80632
U.S.A.

Fax: (1) (970) 330-7655

For Asia-Pacific countries:

Contact Fulfill Plus at (65) 740-4477 (Hong Kong, Indonesia, Philippines, Malaysia, or Singapore). For Korea, call (82) (2) 3270-0805 or (82) (2) 3270-0893.

For Australia, New Zealand, and India:

For Australia and New Zealand, call (61) (2) 565-6099.
For India, call (91) (11) 682-6035.



For European English:

For U.K., call (44) (142) 986-5511. For Ireland and outside U.K., call (44) (142) 986-5511.

HP direct ordering for accessories or supplies:

Call 1-800-538-8787 (U.S.) or 1-800-387-3154 (Canada).

HP Support Assistant compact disc:

This support tool offers a comprehensive online information system designed to provide technical and product information on HP products. To subscribe to this quarterly service in the U.S. or Canada, call 1-800-457-1762. In Hong Kong, Indonesia, Malaysia, or Singapore, call Fulfill Plus at (65) 740-4477.

HP Service Information:

To locate HP-Authorized Dealers, call 1-800-243-9816 (U.S.) or 1-800-387-3867 (Canada).

HP Service Agreements:

Call 1-800-835-4747 (U.S.) or 1-800-268-1221 (Canada).

Extended Service 1-800-446-0522



HP FIRST: HP FIRST Fax will deliver detailed troubleshooting information on common software and troubleshooting tips for your HP product. Call from any touch tone phone and request up to three documents per call. These documents will be sent to the fax of your choice.

Australia	(61) (3) 9272-2627
Austria	(43) (1) 0660-8128
Belgium (Dutch)	(32) (2) 0800-11906
Belgium (French)	(32) (2) 0800-17043
Canada	1-800-333-1917
China	(86) (10) 6505-5280
Denmark	(45) 8001-0453
English (outside of U.K.)	(31) (20) 681-5792
Finland	(358) (9) 0800-13134
France	(33) (01) 43-62-3444
Germany	(49) (13) 081-0061
Hong Kong	(852) 2506-2422
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Indonesia	(62) (21) 352-2044
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Norway	(47) 800-11319
Portugal	(351) (1) 0505-313342
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Singapore	(65) 275-7251
Spain	(34) (90) 099-3123
Sweden	(46) (2) 079-5743
Switzerland (German)	(41) (1) 0800-551527
Switzerland (French)	(41) (1) 0800-551526
Taiwan	(886) (2) 719-5589
Thailand	(66) (2) 661-3511
United Kingdom	(44) (134) 0800-960271
United States	1-800-333-1917



Customer support options worldwide

The service and support chapter of this user guide contains worldwide sales and service addresses and phone numbers for countries not listed here.

Customer Support and Product Repair Assistance for the U.S. and Canada:

(Refer to the service and support chapter of this user guide for additional product repair information.)

Call (1) (208) 323-2551 Monday through Friday from 6 am to 6 pm, (Mountain Time) free of charge during the warranty period. However, your standard long-distance phone charges still apply. Have your system nearby and your serial number ready when calling.

If you know your printer needs repair, call 1-800-243-9816 to locate your nearest HP-Authorized service provider, or call 800-633-3600 for HP centralized service dispatch.

Post-warranty telephone assistance is available to answer your product questions. Call (1) (900) 555-1500 (\$2.50* per minute, U.S. only) or call 1-800-999-1148 (\$25* per call, Visa or MasterCard, U.S. and Canada) Monday through Friday from 7 am to 6 pm and Saturday from 9 am to 3 pm (Mountain Time). *Charges begin only when you connect with a support technician.*

**Prices subject to change.*



European Customer Support Center Language and In-Country Options Available
Open Monday through Friday 8:30–18:00 CET

HP provides a free telephone support service during the warranty period. By calling a telephone number listed below, you will be connected to a responsive team waiting to help you. If you require support after your warranty has expired, you can receive support for a fee through the same telephone number. The fee is charged on a per-incident basis. When calling HP, have the following information ready: product name and serial number, date of purchase, and description of the problem.

English

Ireland: (353) (1) 662-5525
U.K.: (44) (171) 512-5202

Dutch

International: (44) (171) 512-5202
Belgium: (32) (2) 626-8806
Netherlands: (31) (20) 606-8751

French

France: (33) (01) 43-62-3434
Belgium: (32) (2) 626-8807
Switzerland: (41) (84) 880-1111

German

Germany: (49) (180) 525-8143



Austria: (43) (1) 0660-6386

Norwegian

Norway: (47) 2211-6299

Danish

Denmark: (45) 3929-4099

Finnish

Finland: (358) (9) 0203-47288

Swedish

Sweden: (46) (8) 619-2170

Italian

Italy: (39) (2) 264-10350

Spanish

Spain: (34) (90) 232-1123

Portuguese

Portugal: (351) (1) 441-7199

In-country support numbers: If you require support after your warranty has expired, additional product repair services, or if your country is not listed below, see "[Worldwide Sales and Service Offices](#)."

Argentina 787-8080

Australia (61) (3) 272-8000



Brazil	022-829-6612
Canada	(1) (208) 323-2551
China	(86) (10) 65053888-5959
Chile	800-360999
Czech Republic	(42) (2) 471-7321
Greece	(30) (1) 689-6411
Hong Kong	(852) 800-96-7729
Hungary	(36) (1) 343-0310
India	(91) (11) 682-6035
	(91) (11) 682-6069
Indonesia	(62) (21) 350-3408
Korea	(82) (2) 3270-0700
Korea outside Seoul, call	(82) (080) 999-0700
Japan	(81) (3) 3335-8333
Malaysia	(60) (3) 295-2566
Mexico (Mexico City)	01 800-22147
Mexico (outside Mexico City)	01 800-90529
New Zealand	(64) (9) 356-6640
Philippines	(63) (2) 894-1451
Poland	(48) (22) 37-5065
Portugal	(351) (1) 301-7330
Russia	(7) (95) 923-5001
Singapore	(65) 272-5300
Taiwan	(886) (02) 717-0055
Thailand	+66 (0) 2 661-4011
Turkey	(90) (1) 224-5925



Contents

Introduction

<u>Navigation Features</u>	<u>18</u>
<u>Text Conventions</u>	<u>20</u>
<u>Additional Features of</u>	
<u>Acrobat Reader</u>	<u>21</u>
<u>Tips for Use</u>	<u>23</u>

1 Printer Basics

<u>Overview</u>	<u>24</u>
<u>Printer Features and Benefits</u>	<u>25</u>
<u>Printer Information</u>	<u>29</u>
<u>Configurations</u>	<u>29</u>
<u>Printer Parts and Locations</u>	<u>31</u>
<u>Accessories and Supplies</u>	<u>33</u>
<u>Suggested Accessories</u>	<u>34</u>
<u>Ordering Information</u>	<u>36</u>
<u>Control Panel Layout</u>	<u>44</u>
<u>Control Panel Lights</u>	<u>45</u>
<u>Configuration Page</u>	<u>45</u>
<u>Control Panel Keys</u>	<u>46</u>
<u>Control Panel Menus</u>	<u>48</u>
<u>LEDs Status Interpretation</u>	<u>50</u>

<u>Printer Software</u>	<u>52</u>
<u>Printer Drivers</u>	<u>55</u>
<u>Software for Windows</u>	<u>58</u>
<u>Installing Windows Printing</u>	
<u>Software (CD)</u>	<u>59</u>
<u>Installing Network Software</u>	<u>61</u>
<u>Installing Macintosh Printing Software</u>	<u>62</u>
<u>Software for Macintosh Computers</u>	<u>69</u>
<u>Software for Networks</u>	<u>71</u>

2 Printing Tasks

<u>Overview</u>	<u>75</u>
<u>Selecting the Input Tray</u>	<u>76</u>
<u>Loading Tray 1</u>	<u>76</u>
<u>Loading Trays 2, 3, and the</u>	
<u>Optional 2 x 500-sheet Input Tray</u>	
<u>(Trays 4 and 5)</u>	<u>80</u>
<u>Loading the Optional 2000-sheet</u>	
<u>Input Tray (Tray 4)</u>	<u>84</u>
<u>Selecting the Output Bin</u>	<u>88</u>
<u>Printing to the Standard Output Bin</u>	<u>90</u>
<u>Printing to the Left Output Bin</u>	<u>92</u>
<u>Printing to a Mailbox</u>	<u>93</u>



Using the Stapler	98
Loading Staple Cartridges	98
Stapling Documents	100
Printing Both Sides of Paper (Optional Duplex Printing Accessory)	102
Printing Envelopes	107
Feeding Envelopes Automatically (Optional Envelope Feeder)	107
Inserting the Envelope Feeder	109
Loading Envelopes into the Envelope Feeder	110
Printing Envelopes from Tray 1	111
Printing Special Paper	114
Printing Letterhead or Preprinted Paper	114
Printing Labels	115
Printing Transparencies	117
Custom-size Paper in Tray 1	118
Printing Cards, Custom-size and Heavy Paper	121

[3 Advanced Printing Tasks](#)

Overview	124
Using Features in the Printer Driver	125
Different First Page	128
Printing Multiple Pages on One Sheet of Paper	130

Customizing Tray 1 Operation	131
Tray 1 Mode=First	131
Tray 1 Mode=Cassette	132
Manually Feeding Paper from Tray 1	133
Printing by Type and Size of Paper	134
Benefits of Printing by Type and Size of Paper	134

[4 Printer Maintenance](#)

Overview	136
Managing the Toner Cartridge	137
HP Policy on Non-HP Toner Cartridges	137
Toner Cartridge Storage	137
Toner Cartridge Life Expectancy	138
Continue Printing When Toner is Low	139
Cleaning the Printer	141

[5 Problem Solving](#)

Overview	144
Clearing Paper Jams	146
Clearing Jams from the Input Tray Areas	148
Clearing Jams from the Optional Duplex Printing Accessory	157
Clearing Jams from the Top Cover Area	159



Clearing Jams from the Output Areas	160
Clearing Jams from the Stapler	164
Solving Repeated Paper Jams	166
Understanding Printer Messages	168
Correcting Output Quality Problems	186
Troubleshooting Checklist	188
Determining Printer Problems	189
Software, Computer, and	
Printer Interface Problems	191
Cabling Configurations	210
Selecting an alternate PPD	219
Communicating with an Optional HP	
JetDirect 600N Print Server	221
Checking the Printer's Configuration	227
Configuration Page	228
Configuration Page	229
Menu Map	231
PCL or PS Font List	232
File Directory Page	234
Event Log Page	235

[6 Service and Support](#)

Overview	236
Hewlett-Packard limited	
warranty statement	237
Service During and After the	
Warranty Period	239

Limited Warranty for Toner	
Cartridge Life	240
HP Software License Terms	242
Worldwide Sales and Service Offices	245

[Appendix A Specifications](#)

Overview	253
Paper Specifications	254
Supported Sizes of Paper for Input	
and Output	256
Supported Types of Paper	259
Labels	265
Transparencies	266
Envelopes	267
Card Stock and Heavy Paper	271
Printer Specifications	273
Physical Dimensions	273
Environmental Specifications	276

[B Control Panel Menus](#)

Overview	279
Information Menu	281
Paper Handling Menu	283
Print Quality Menu	287
Printing Menu	290
Configuration Menu	295
I/O Menu	302



EIO Menu (8000 N/8000 DN)	305
Resets Menu	308

[Appendix C Printer Memory and Expansion](#)

Overview	310
Installing Memory	312
Checking Memory Installation	315
Adjusting Memory Settings	316
Installing EIO Cards/Mass Storage	320

[Appendix D Printer Commands](#)

Overview	321
Understanding PCL Printer	
Command Syntax	323
Combining Escape Sequences	324
Entering Escape Characters	325
Selecting PCL Fonts	326
Common PCL Printer Commands	327

Multibin Mailbox Commands	335
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[Appendix E Regulatory Information](#)

Overview	340
FCC Regulations	341
Environmental Product Stewardship	342
Protecting the Environment	342
Material Safety Data Sheet	346
Environmental Conformity	347
Declaration of Conformity	349
Safety Statements	353
Laser Safety Statement	353
Canadian DOC Regulations	353
VCCI Statement (Japan)	354
Korean EMI statement	354
Laser Statement for Finland	355

[Index](#)



Introduction



This section explains some of the features of this online user guide as well as tips and tricks to help you use it to its greatest potential. It provides an overview of the following information:

- [Navigation Features](#)
- [Text Conventions](#)
- [Additional Features of Acrobat Reader](#)
- [Tips for Use](#)









Additional features can be accessed through your Acrobat Reader menus and toolbars.




Navigation Features



Button	Button Name	Function
 	Chapter Beginning and End Arrows	The Chapter Beginning and End buttons allow you to go to the beginning or end of a chapter. The Up arrow takes you to the beginning of the chapter, while the Down arrow takes you to the end.
 	Page Up and Down Arrows	The Page Up and Down arrows allow you to scroll page-by-page through a chapter. The Page Up arrow allows you to go back one page, while the Page Down arrow allows you to move forward one page.
	Table of Contents Icon	This Table of Contents Icon calls up the table of contents for the online user guide. It appears on all pages except those that are part of the table of contents.
	Introduction Icon	The Introduction Icon calls up this introduction to the guide.



Button	Button Name	Function
	Index Icon	The Index Icon calls up the online user guide text index. The index entries are linked to their related topics.



Text Conventions

Some text is formatted differently to indicate specific meanings or functions. Below is a table that defines the different text formats and what they indicate.







Text Format Style	Meaning or Function
KEY CAP	This format is used to represent buttons on the printer, as well as keys on the computer keyboard.
<u>Hypertext</u>	This format is used to indicate that the text is linked to another page of the document. Clicking on the underlined text takes you to that page. Sometimes, a page number and section heading are included in the blue underlined text, but any text formatted this way indicates the presence of a link.
Input	This format indicates that the text is typed by the user at a command prompt or into a dialog box.



Additional Features of Acrobat Reader






In addition to the navigation buttons provided on the right side of the page, Adobe Acrobat Reader has a number of other features that you may find useful.



Button	Button Name	Function
	Actual Size	This button sets the document view to the page's actual size.
	Fit Page	This button changes the document view so the page fits in the window.
	Fit Visible Width	This button changes the document view so the visible content and page width fit in the window.
	Page Only	This button displays the page only with no bookmarks or thumbnails.





Button	Button Name	Function
	Page With Bookmarks	This button displays the page and bookmarks to the different sections of the document in a window to the left of the screen.
	Page With Thumbnails	This button displays the page and small images of each page in a window to the left of the screen.
	Back	This button allows you to go to the previous link or to undo your last change.
	Find	This button calls up the Find dialog.
	Zoom	This button allows you to change the page size.



Tips for Use

Use bookmarks to navigate between chapters.



When reading large amounts of text, turn off bookmarks and change the page view to full screen.

Use the find function under the Tools menu to find specific terms.

To print this document- For best quality and quickest printing, always print using a compatible PostScript Level 2 emulation printer driver.



1 *Printer Basics*

Overview

Congratulations on your purchase of an HP LaserJet 8000 series or an HP Mopier 240 printer. If you have not done so, see the getting started guide provided with the printer for setup instructions.

Now that the printer is set up and ready to use, take a few moments to get to know the printer. This chapter introduces the following:

- [Printer Features and Benefits](#)
- [Printer Information](#)
- [Accessories and Supplies](#)
- [Control Panel Layout](#)
- [LEDs Status Interpretation](#)
- [Printer Software](#)



Printer Features and Benefits

Speed and Throughput

- RIP ONCE technology
- 24 pages per minute (ppm)
- 133 MHz MIPS microprocessor

Resolution

- 600 dots per inch (dpi) with Resolution Enhancement technology (REt)
- FastRes 1200 provides 1200 dpi quality at full speed
- More than 220 levels of gray

Memory

- 16 MB (8000/8000 N) or 24 MB (8000 DN) of RAM, expandable using industry standard 100-pin DIMMs (Dual In-Line Memory Modules)
- Memory Enhancement technology (MEt) automatically compresses data to use RAM more efficiently



Language and Fonts

- HP PCL 6
- HP PCL 5e for compatibility
- Printer Job Language (PJP)
- Printer Management Language (PML)
- 45 scalable TrueType typefaces
- 65 fonts with HP FontSmart (not available for Macintosh)
- PostScript Level 2 Emulation standard



Paper Handling Options

● **Input**

- ◆ **Tray 1:** A multipurpose tray for paper, transparencies, labels, and envelopes. Holds up to 100 sheets of paper.
- ◆ **Trays 2 and 3:** Two 500-sheet trays. These trays automatically sense paper size.
- ◆ **Optional 2 x 500-sheet Input Tray (Trays 4 and 5):** Two 500-sheet trays. These trays automatically sense paper size.
- ◆ **Optional 2000-sheet Input Tray (Tray 4):** One 2000-sheet tray. This tray automatically senses paper size.
- ◆ **Optional Duplex Printing Accessory:** Provides two-sided printing (both sides of paper).
- ◆ **Optional Envelope Feeder:** Automatically feeds up to 100 envelopes.

● **Output**

- ◆ **Standard Output Bin:** Holds up to 500 sheets of paper. Automatically senses when full.
- ◆ **Left Output Bin:** Holds up to 125 sheets of paper. Provides the best results when printing transparencies, labels, and envelopes.
- ◆ **Optional 5-bin Mailbox with Stapler:** Each of the 5 bins holds up to 250 sheets of paper. Provides job separation by stapling jobs.

Continued on next page.



- ◆ **Optional Multibin Mailbox:** Each of the 8 bins holds up to 250 sheets of paper.
- ◆ **Optional 7-bin Tabletop Mailbox:** Each of the 7 bins holds up to 120 sheets of paper. Designed for tabletop printing.



Connectivity

- 3 EIO (enhanced input/output) slots
- HP JetDirect EIO cards, Ethernet (10Base-T, 10Base2), Local Talk, Token Ring, Fast Ethernet 10/100Base-TX
- Parallel

Environmental Features

- EconoMode reduces toner consumption
- Power Save setting saves energy (meets Energy Star guidelines)
- High content of recyclable components and materials in the printer



Printer Information

Configurations

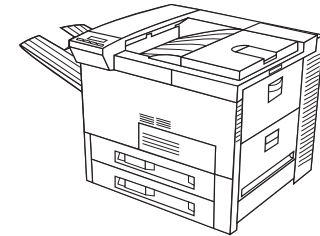
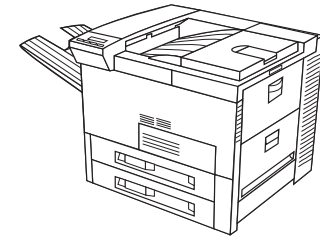
HP LaserJet 8000 printer

The HP LaserJet 8000 printer (part number C4085A) comes standard with 16 MB RAM, wide format printing, two 500-sheet trays, and a 100-sheet multipurpose tray.

HP LaserJet 8000 N printer

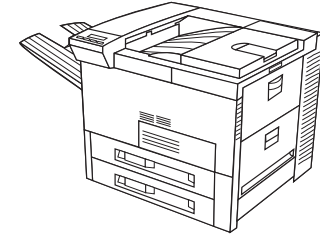
The HP LaserJet 8000 N printer (part number C4086A) comes standard with 16 MB RAM, wide format printing, two 500-sheet trays, a 100-sheet multipurpose tray, and an HP JetDirect 600N for 10/100Base-TX, internal print server.

Continued on next page.



HP LaserJet 8000 DN printer

The HP LaserJet 8000 DN printer (part number C4087A) comes standard with 24 MB RAM, wide format printing, two 500-sheet trays, a 100-sheet multipurpose tray, an HP JetDirect 600N for 10/100Base-TX, internal print server, and a duplexer (for printing on both sides of paper).



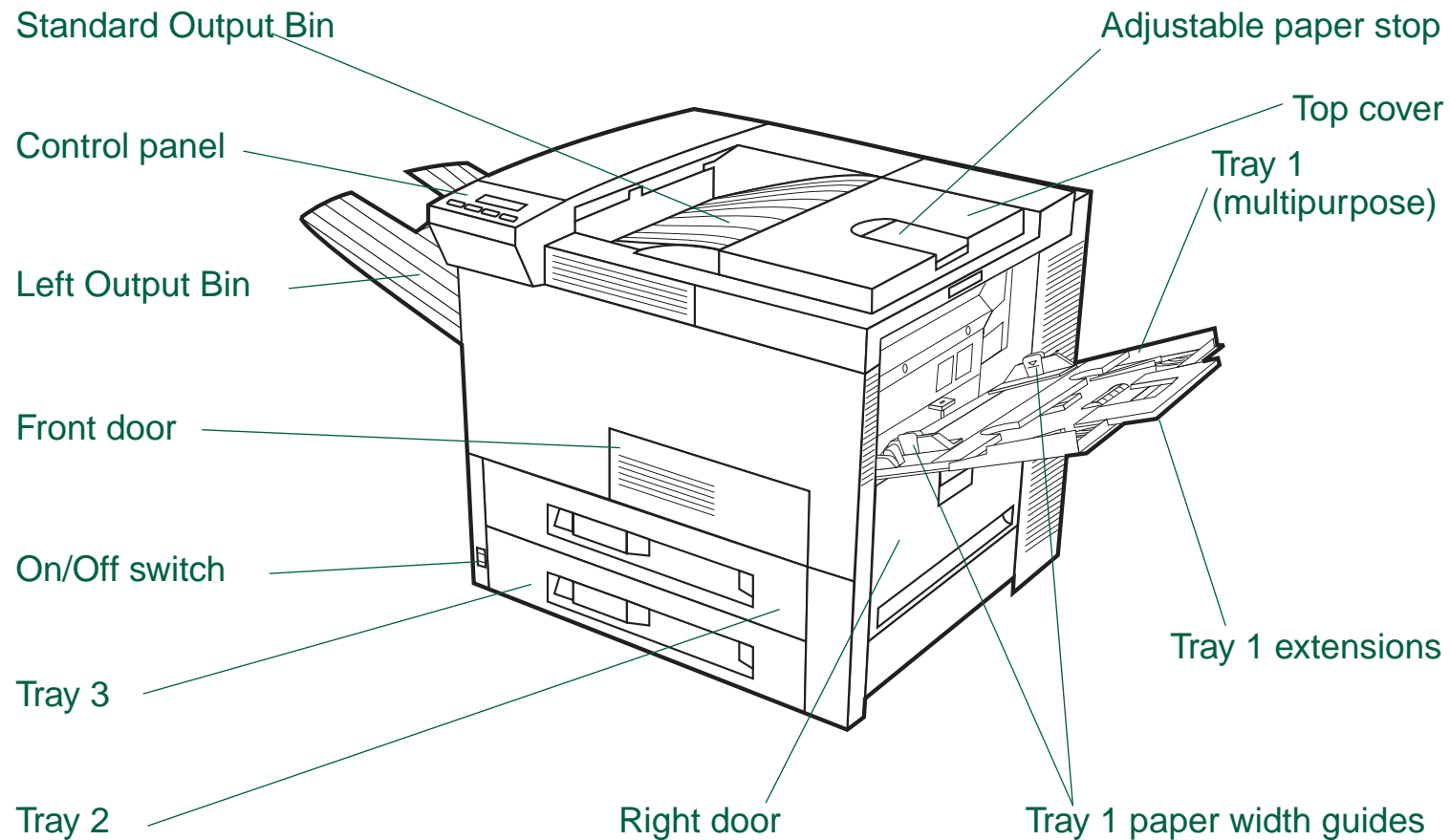
HP Mopier* 240

The HP Mopier 240 printer with advanced paper handling devices, such as the 2000-sheet Input Tray and 5-bin Mailbox with Stapler, enables you to easily produce multiple sets of multipage documents—collated, duplexed, and stapled—directly from your desktop and without having to walk to the photocopier.

*Available through HP-qualified distribution.

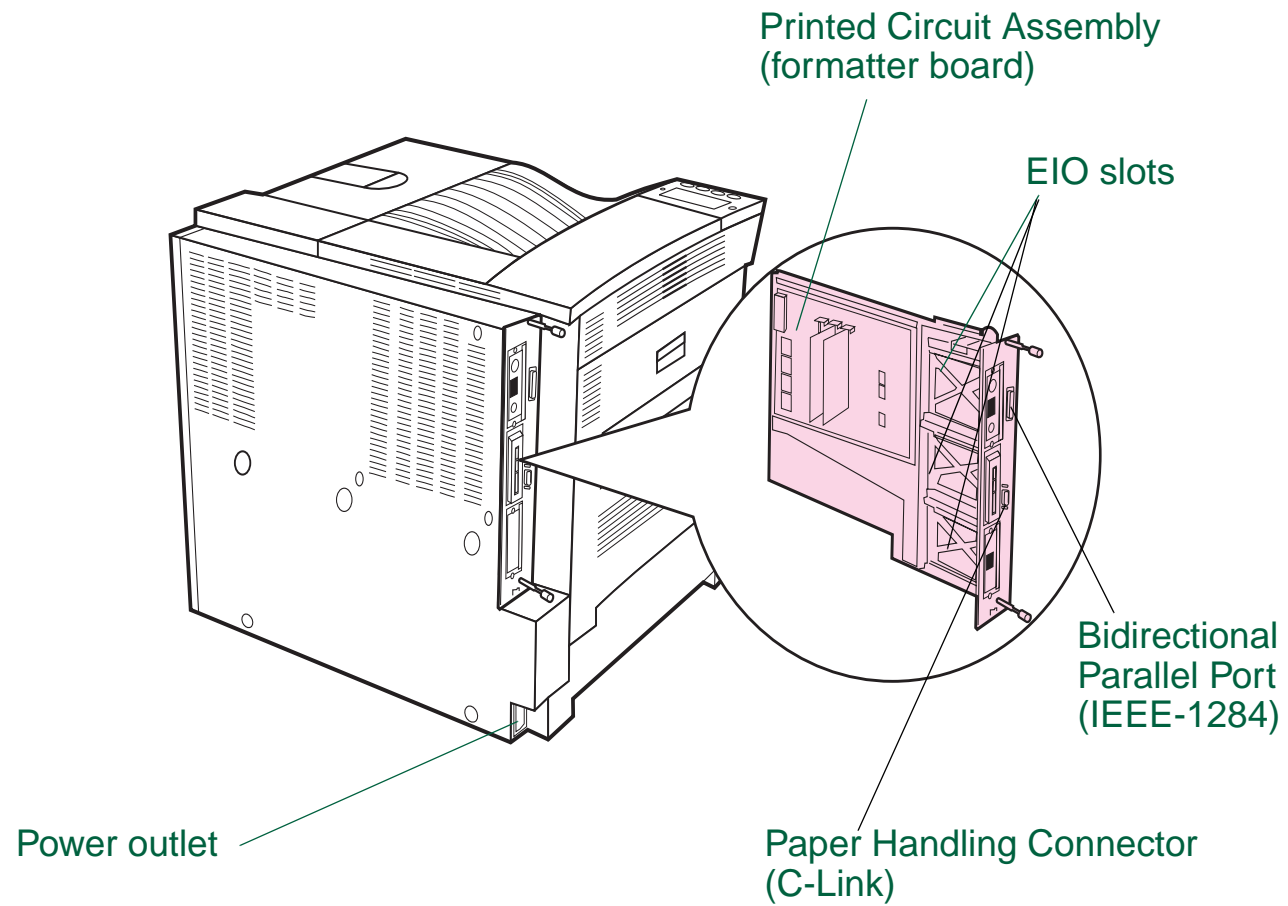


Printer Parts and Locations



Continued on next page.





Accessories and Supplies

You can increase the capabilities of the printer with optional accessories and supplies.

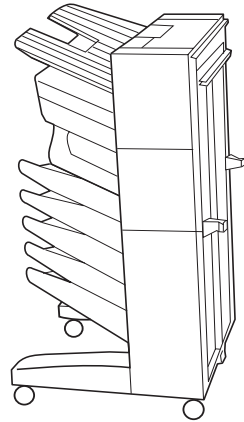
Use accessories and supplies specifically designed for the printer to ensure optimum performance.

The printer supports three enhanced input/output (EIO) cards. Other accessories and options are available. For ordering information, see page [36](#).

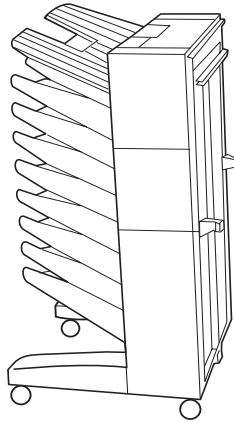


Suggested Accessories

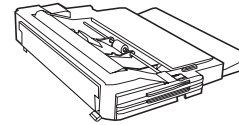
5-bin Mailbox
with Stapler



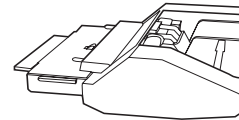
Multibin Mailbox
(8 bins)



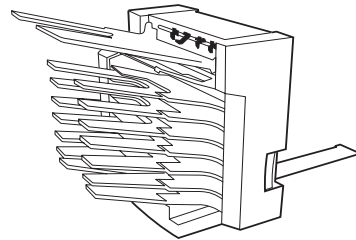
Duplexer



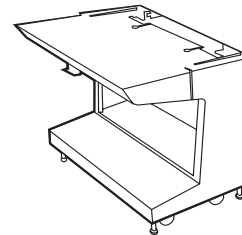
Envelope Feeder



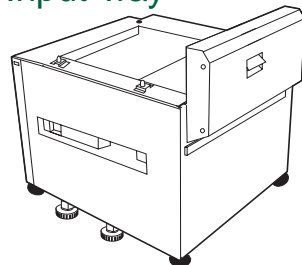
7-bin Tabletop
Mailbox



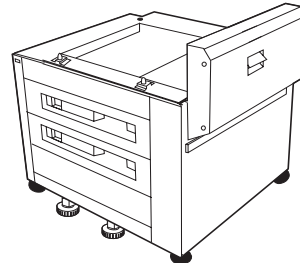
Stand for 7-bin
Tabletop Mailbox



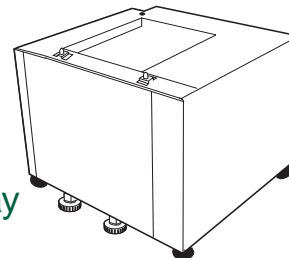
2000-sheet Input Tray
(Tray 4)



2 x 500-sheet Input Tray
(Trays 4 and 5)



Printer Stand



Optional Hard Disk

The Hard Disk accessory can be used to permanently store downloaded fonts and forms in the printer. Unlike standard printer memory, items on the Hard Disk remain in the printer even when the printer is turned off. Fonts downloaded to the Hard Disk are available to all users of the printer.

The Hard Disk can be write-protected through software for additional security.

Windows Users

Use HP JetAdmin to delete files from a mass storage device. Use HP FontSmart to manage fonts on a mass storage device (page [67](#)). For more information, see the printer software help.

HP is constantly introducing new software tools for use with your printer and accessories. These tools are available from the Internet free of charge. See page [3](#) for how to visit the HP website for more information.

Macintosh Users

Use the HP LaserJet Utility to download fonts. Refer to the HP LaserJet Utility Guide online help included with your HP LaserJet Utility software for more information.



Ordering Information

Use only accessories specifically designed for this printer. To order an accessory, contact an HP-authorized service or support provider. (See the [HP Support](#) pages at the front of this user guide.)

Ordering Information

	Item	Description or Use	Order Number
Paper Handling	2 x 500-sheet Input Tray	Two 500-sheet trays and feeder.	C4780A
	2000-sheet Input Tray	One 2000-sheet tray and feeder.	C4781A
	Envelope Feeder	Automatically feeds up to 100 envelopes.	C3765B
	Duplex Printing Accessory (duplexer)	Allows automatic printing on both sides of paper.	C4782A
	7-bin Tabletop Mailbox	Each of the 7 output bins holds 120 sheets of paper. Designed for tabletop use.	C4783A



Ordering Information (continued)

	Item	Description or Use	Order Number
Paper Handling	Multibin Mailbox	Each of the 8 output bins holds 250 sheets of paper.	C4785A
	5-bin Mailbox with Stapler	Each of the 5 output bins holds 250 sheets of paper. Provides job separation by stapling jobs.	C4787A
Printer Stands	Printer Stand	Used in place of the 2000-sheet Input Tray (Tray 4) or the 2 x 500-sheet Tray (Trays 4 and 5) when a mailbox accessory is attached.	C2975A
	Stand for 7-bin Tabletop Mailbox	Allows 7-bin Tabletop Mailbox to be used when printer is mounted on 2 x 500-sheet Input Tray, 2000-sheet Input Tray, or printer stand.	C4784A



Ordering Information (continued)

	Item	Description or Use	Order Number
Printing Supplies	HP Multipurpose Paper (Other HP media is available where office products are sold.)	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 1-800-471-4701.	HPM1120
	HP LaserJet Paper (Other HP media is available where office products are sold.)	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 1-800-471-4701.	HPJ1124
	Toner Cartridge (15,000 pages)	Replacement HP Microfine toner cartridge.	C3909A



Ordering Information (continued)

Item	Description or Use	Order Number
Memory, Fonts, and Mass Storage	Dual In-line Memory Module (DIMM) (100-pin)	Boosts the ability of the printer to handle large print jobs (maximum 192 MB with HP brand DIMMs):
	EDO DIMMs (100-pin)	<div>4 MB C4135A</div> <div>8 MB C4136A</div> <div>16 MB C4137A</div>
	SDRAM DIMMs (100-pin)	4 MB C4140A
		8 MB C4141A
		16 MB C4142A
		32 MB C4143A
		64 MB C3913A
	Flash DIMM (100-pin)	Permanent storage for fonts and forms:
		2 MB C4286A
		4 MB C4287A



Ordering Information (continued)

Item		Description or Use	Order Number
Memory, Fonts, and Mass Storage	Font DIMM (100-pin)	8 MB Asian ROM: traditional Chinese simplified Chinese Korean	C4292A C4293A D4838A
	Hard Disk	Permanent storage for fonts and forms. Enables RIP ONCE mopying of print jobs that are too large to RIP ONCE mopy in RAM.	C2985A
Cable and Interface Accessories	Parallel Cables	3 Meter IEEE-1284 cable 10 Meter IEEE-1284 cable	C2946A C2947A
	Macintosh Network Cable Kit	For PhoneNET or LocalTalk connection.	92215N



Ordering Information (continued)

Item		Description or Use	Order Number
Cable and Interface Accessories	Enhanced I/O Cards	HP JetDirect print server multi-protocol EIO network cards:	
		Ethernet RJ-45 only	J3110A
		Ethernet RJ-45 and BNC, LocalTalk	J3111A
		Token Ring RJ-45 and DB-9	J3112A
		Fast Ethernet 10/100Base-TX RJ-45 only	J3113A
	Power Box	For connecting a multibin mailbox to the printer when the printer is on a printer stand. This item is included with the 2000-sheet Input Tray and the 2 x 500-sheet Input Tray.	C4789A
Maintenance Accessory	Preventive Maintenance Kit	For 110V units	C3971B
		For 220V units	C3972B



Ordering Information (continued)

Item	Description or Use	Order Number
Documentation <i>HP LaserJet Printer Family Paper Specification Guide</i>	A guide to using paper and other print media with HP LaserJet printers.	5010-6394
<i>PCL 5/PJL Technical Reference Documentation Package</i>	A guide to using printer commands with HP LaserJet printers.	5021-0330
<i>HP LaserJet 8000, 8000 N, 8000 DN, and HP Mopier 240 Printers User Guide</i>	This is an online user guide provided on compact disc.	C4085-60101
<i>HP LaserJet 8000, 8000 N, 8000 DN, and HP Mopier 240 Printers Getting Started Guide</i>	An additional copy of the getting started guide.	C4085-90901



Ordering Information (continued)

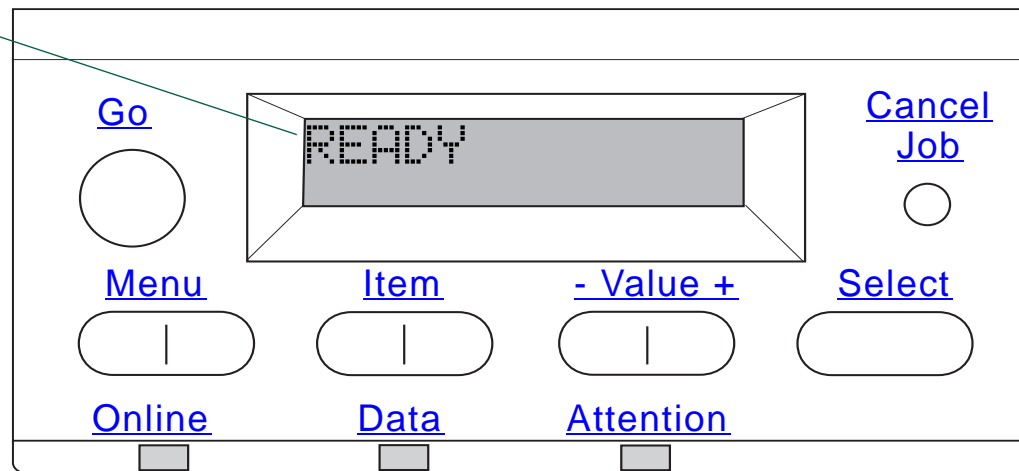
Item	Description or Use	Order Number
<i>HP LaserJet 8000, 8000 N, 8000 DN, and HP Mopier 240 Printers Ready Reference Guide</i>	An additional copy of the ready reference guide.	C4085-90921
User Documentation Bundle	An additional copy of the getting started guide, and the ready reference guide.	C4085-90901



Control Panel Layout

The control panel includes three indicator lights, six keys, and a 2-line display (16 characters per line).

2-line display



Control Panel Lights

Light	Indication
Online	The printer is ready to print.
Data	The printer is processing information.
Attention	Action is required. See the control panel display.

Configuration Page

To print a configuration page, see page [228](#).



Control Panel Keys

Control Panel Keys

Key	Function
Go	<ul style="list-style-type: none"> ● Places the printer either online or offline. ● Prints any data residing in the printer's buffer. ● Allows the printer to resume printing after being offline. Clears most printer messages and places the printer online. ● Allows the printer to continue printing with an error message such as TRAY x LOAD [TYPE] [SIZE] or UNEXPECTED PAPER SIZE. ● Confirms a manual feed request if Tray 1 is loaded and TRAY 1 MODE=CASSETTE has been set from the Paper Handling Menu in the printer's control panel. ● Overrides a manual feed request from Tray 1 by selecting paper from the next available tray. ● Exits the control panel menus. (To save a selected control panel setting, first press SELECT.)
CANCEL JOB	Cancels the print job that the printer is processing. The time it takes to cancel depends on the size of the print job. (Press it only once.)
MENU	Cycles through the control panel menus. Press the right end of the button to move forward or the left end of the button to move backward.
ITEM	Cycles through the selected menu's items. Press the right end of the button to move forward or the left end of the button to move backward.



Control Panel Keys

Key	Function
- VALUE +	Cycles through the selected menu item's values. Press + to move forward or - to move backward.
SELECT	<ul style="list-style-type: none">● Saves the selected value for that item. An asterisk (*) appears next to the selection, indicating that it is the new default. Default settings remain when the printer is switched off or reset (unless you reset all factory defaults from the Resets Menu).● Prints one of the printer information pages from the control panel.

**Control Panel Layout**

Control Panel Menus

For a complete list of control panel items and possible values, see page [279](#).

Press **MENU** for access to all control panel menus. When additional trays or other accessories are installed in the printer, new menu items automatically appear.

Continued on next page.



To change a control panel setting:

1. Press **MENU** until the desired menu appears.
2. Press **ITEM** until the desired item appears.
3. Press - **VALUE** + until the desired setting appears.
4. Press **SELECT** to save the selection. An asterisk (*) appears next to the selection in the display, indicating that it is now the default.
5. Press **GO** to exit the menu.

**Note**

Settings in the printer driver and software application override control panel settings. (Software application settings override printer driver settings.)

If you cannot access a menu or item, it is either not an option for the printer, or your network administrator has locked the function. (The control panel reads ACCESS DENIED MENUS LOCKED.) See your network administrator.

***To print a control panel menu map:***

See page [231](#) for information on how to print a control panel menu map.



LEDs Status Interpretation

Use the following table to interpret the status lights on the Optional 2000-sheet Input Tray, the Optional 2 x 500-sheet Input Tray (Trays 4 and 5), and the Multibin Mailbox.

LED Status Interpretation

Light	Optional 2000-sheet Input Tray and the Optional 2 x 500-sheet Tray (Trays 4 and 5)	Multibin Mailbox
Solid Green	The accessory is on and ready.	The accessory light is on and ready.
Solid Amber	The accessory is experiencing a hardware malfunction.	The accessory is experiencing a hardware malfunction.
Flashing Amber	The accessory has a paper jam or a page needs to be removed from the tray, even if the page is not jammed. The lower right door might be open.	The accessory has a paper jam or a page needs to be removed from the multibin mailbox, even if the page is not jammed. The accessory is not correctly attached to the printer.

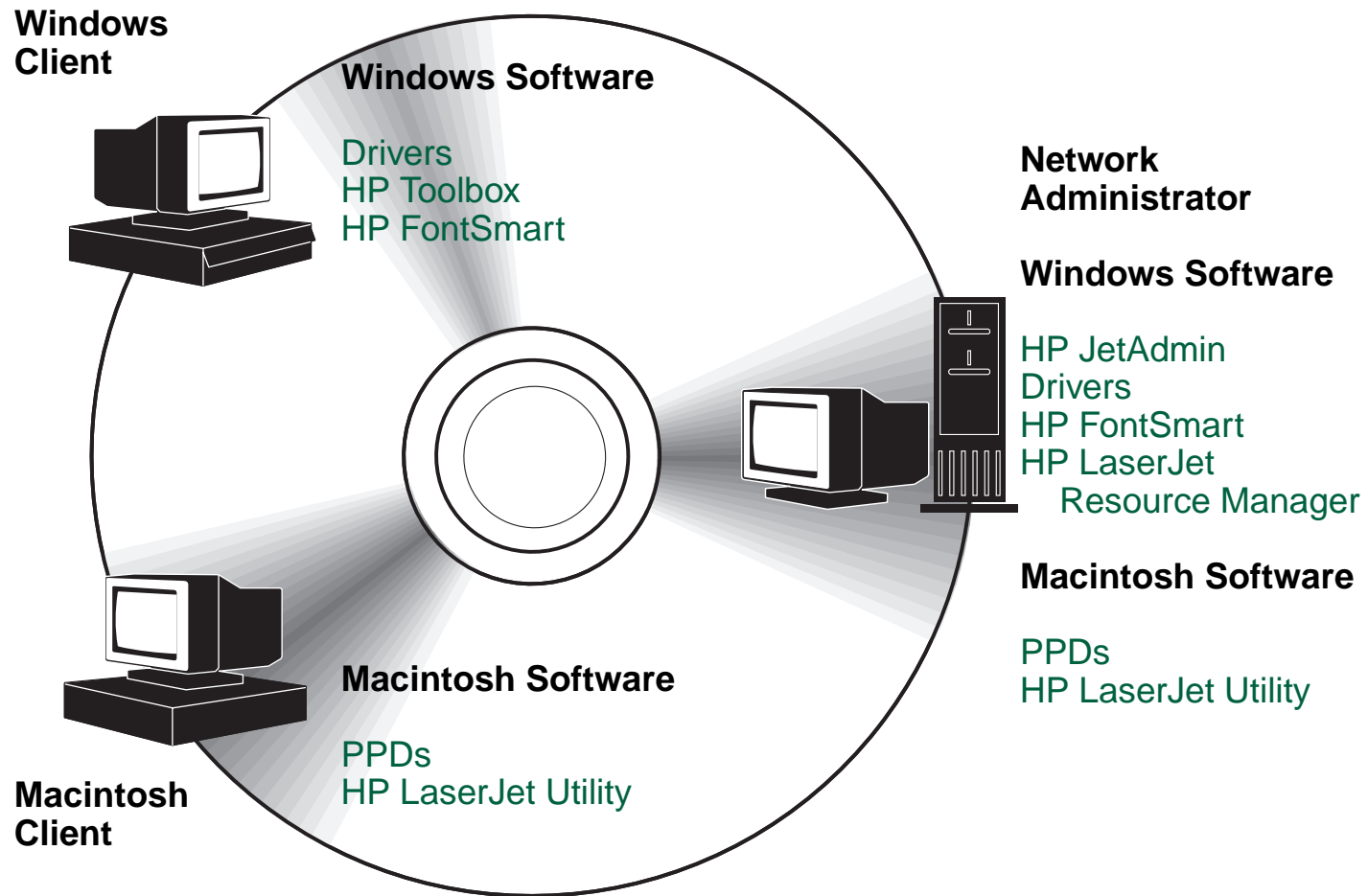


LED Status Interpretation (continued)

Off	The printer might be in Power Save mode. Press GO . The accessory is not receiving power. Check both the power supply and the power cables.	The printer might be in Power Save mode. Press GO . The accessory is not receiving power. Check both the power supply and the power cables.
------------	---	---



Printer Software



The printer drivers provided on the compact disc must be installed to take full advantage of the printer's features. The other software programs are recommended, but are not required for operation. See the ReadMe file for more information.



Note

Network Administrators: HP JetAdmin should be installed only on the network administrator's computer. Load all other applicable software on the server and all client computers.



The most recent drivers, additional drivers, and other software are available from the Internet. Depending on the configuration of Windows-driven computers, the installation program for the printer software automatically checks the computer for Internet access to obtain the latest software. If you do not have access to the Internet, see the [HP Support](#) pages at the front of this user guide to obtain the most recent software.



Included with the printer is a compact disc containing the HP LaserJet Printing System. On the compact disc are software components and drivers that benefit end users and network administrators. See the ReadMe file for the most current information.



The Printing System includes software designed for end users operating in the following environments:

- Microsoft Windows 3.1x



Continued on next page.



- Microsoft Windows 95
- Microsoft Windows NT 4.0
- IBM OS/2 version 2.0 or greater
- Apple Mac OS 7 or greater

Additional drivers for DOS WordPerfect 5.x and 6.x are available through your HP distributor. (See the [HP Support](#) pages at the front of this user guide.)

The Printing System also includes software for network administrators using the following network operating systems:

- Novell NetWare 3.x or 4.x
- Microsoft Windows NT 4.0
- IBM LAN Server 3.0 or greater
- Apple AppleTalk

Network administration software for UNIX and other network operating systems is available from the web, or through your HP distributor. (See the [HP Support](#) pages at the front of this user guide.)

The drivers and software components for end users and administrators using the environments listed above are described in the following sections.



Printer Drivers

Printer drivers access the printer features and allow the computer to communicate with the printer (via a printer language).

Windows

See [Access the Windows Printer Driver](#) on page [63](#) for more specific driver information.

Macintosh

See [PostScript Printer Description Files \(PPDs\)](#) on page [69](#) for more specific driver information.

Note

Check the ReadMe file provided on the compact disc for additional software included and supported languages.

Certain printer features are available only from the PCL 6 driver. See the printer software help for availability of features.

Continued on next page.



Drivers Included with the Printer

The following printer drivers are included with the printer. The most recent drivers are available on the Internet. (See the [HP Support](#) pages at the front of this user guide.) Depending on the configuration of Windows computers, the installation program for the printer software automatically checks the computer for Internet access to obtain the latest drivers.

	PCL 5e	PCL 6	PS
Windows 3.1x	✓	✓	✓
Windows 95	✓	✓	✓
Windows NT 4.0	✓	✓	✓
Macintosh computer	PPDs are included (page 69).		

Within the computer installation program, select **Typical Install** to install the PCL 5e, PCL 6, and PS drivers and HP FontSmart. Select **Custom Install** to install only the software you prefer, or if you are a network administrator. Select **Minimum Install** to install only the PCL 6 driver for basic printing.



Additional Drivers

You can obtain the following printer drivers by downloading them from the Internet, or by requesting them from an HP-authorized service or support provider. (See the [HP Support](#) pages at the front of this user guide.)

- OS/2 PCL/PCL 6 printer driver*
- OS/2 PS printer driver*
- WordPerfect 5.1 printer driver
- AutoCAD (Rev. 14 compatible printer driver, also available on the compact disc)

*The OS/2 drivers are also available from IBM, and are packaged with OS/2.

Note If the desired printer driver is not on the compact disc or is not listed here, check the software application's installation disks or ReadMe files to see if they include support for the printer. If not, contact the software manufacturer or distributor and request a driver for the printer.



Software for Windows

Use the **Typical Install** option, or **Custom Install** option (if you are a Network Administrator), to install the HP software. (This includes several printer drivers. For more information, see page [56](#))

Note

Network Administrators: If the printer is attached to a network through an HP JetDirect EIO card, before you can print, the printer must be configured for that network using HP JetAdmin or similar network software. (See the getting started guide.)



Installing Windows Printing Software (CD)

For Windows 95 and Windows NT 4.0

1. Close all running applications.
2. Insert the compact disc into the CD-ROM drive. (Depending on the computer configuration, the installation program may automatically start.)
3. Click **Start**.
4. Click **Run**.
5. Type **D:\SETUP** (or the appropriate drive directory letter) in the command line box and click **OK**.
6. Follow the instructions on the computer screen.

Continued on next page.



For Windows 3.1x

Note Windows 3.1x includes only PostScript Level 2 Emulation (or Level 1 Emulation for Windows 3.1x) and FontSmart.

1. Close all running applications.
2. Insert the compact disc into the CD-ROM drive.
3. In the **Windows Program Manager** screen, click the **File** menu.
4. Click **Run**.
5. Type **D:\SETUP** (or the appropriate drive directory letter) in the command line box and click **OK**.
6. Follow the instructions on the computer screen.



Installing Network Software

Note

If the printer is to be used on a network, install and configure the network operating system software on the network administrator's system before individual users install the printing software.

1. Select a Custom install to install the printing system software. Be sure to install the HP JetAdmin software.
2. Use HP JetAdmin to configure the HP JetDirect print server and the printer for your network. You also can use HP Web JetAdmin to configure your printer with your web browser. For information on using HP Web JetAdmin, see HP's web site at <http://www.hp.com>



Installing Macintosh Printing Software

1. Quit all open applications.
2. Insert the compact disc into the CD-ROM drive.
3. Double-click the **Installer** icon and follow the instructions on the screen.
4. Open the **Chooser** from the **Apple** menu.
5. Click the **Apple LaserWriter** icon. If the icon is not there, contact your Macintosh dealer.
6. If you are on a network with multiple zones, select the zone in the **AppleTalk Zones** box where the printer is located. If this is unknown, ask your network administrator.
7. Double-click the desired printer. An icon should appear.
8. Close the **Chooser** by clicking the Go-Away (Close) box in the upper left corner.



Access the Windows Printer Driver

To configure the driver once the software is installed, access it in one of the following ways:



Operating System	Temporarily Change Settings (from a software application)	Change Default Settings (across all applications)
Windows 95	From the File menu, click Print , and then click Properties . (The actual steps can vary; this is the most common method.)	Click the Start button, point to Settings , and then click Printers . Right-click the printer icon, and choose Properties .
Windows NT 4.0	From the File menu, click Print , and then click Properties . (The actual steps can vary; this is the most common method.)	Click the Start button, point to Settings , and then click Printers . Right-click and choose Document Defaults or Properties .
Windows 3.1x	From the File menu, click Print , click Printers , and then click Options . (The actual steps can vary; this is the most common method.)	From the Windows control panel, double-click Printers , highlight the printer, and click Setup .



Note Settings in the printer driver and software application override control panel settings. (Software application settings override printer driver settings.)



Choose the Right Printer Driver for Your Needs

Choose a printer driver based on the way you use the printer.

- Use the PCL 6 driver to take full advantage of the printer's features. Unless backward compatibility with previous PCL drivers or older printers is necessary, the PCL 6 driver is recommended.
- Use the PCL 5e driver if you want print results to look comparable to those from older printers. Certain features are not available in this driver. (This PCL 5e driver is not backward compatible with older printers.)
- Use the PS driver for compatibility with PostScript Level 2 needs. Certain features are not available in this driver.
- The printer automatically switches between PS and PCL printer languages.



Printer Driver Help

Each printer driver has help screens that can be activated either from the Help button, the F1 key, or a question mark symbol in the upper right corner in the printer driver (depending on the Windows operating system used). These help screens give detailed information about the specific driver. Printer driver help is separate from the software application help.



HP ToolBox

HP ToolBox is enabled during a **Custom Install** and is not needed to print.

Access HP ToolBox from a printer icon on the Windows 95 and Windows NT 4.0 **Taskbar**. HP ToolBox provides one-step access to the current status of the printer and the jobs it is printing. A list of all available features is as follows:

- printer status
- “How Do I...” help
- utilities
- job status

If you choose not to use HP ToolBox, it can be disabled. See the printer software help.



HP FontSmart

Access HP FontSmart from the HP LaserJet folder or through HP ToolBox. HP FontSmart is a font management utility (for Windows only) which does the following:

- installs, uninstalls, and deletes fonts
- manages fonts inside a single window by allowing you to drag-and-drop
- shows the 110 matching screen fonts for the internal fonts in the printer
- downloads fonts to a mass storage device

Note

With Windows 3.1x and Windows 95, you can use HP FontSmart to download fonts to a mass storage device. Types of fonts supported are TrueType, PostScript® Type 1 and PostScript Type 42 (TrueType fonts converted to PostScript format). To download Type 1 fonts, Adobe Type Manager must be installed and turned on.



HP JetSend Communications Technology



HP JetSend can be installed through an installer on the compact disc. HP JetSend is a new technology from Hewlett-Packard that allows network devices to communicate with each other directly. Devices which contain the HP JetSend technology can exchange information directly with other devices connected via the Internet or intranet. Sending devices can include scanners and computers. Receiving devices can include printers and computers. In addition to sending and receiving documents, you can view documents using the HP JetView software.

HP JetSend technology enables flexible, direct communications between network devices using simple IP addressing. HP JetSend enables simple, targeted, information exchange that is independent of both servers and applications. This means that users can easily exchange information directly between Internet-connected devices like printers and scanners (and other devices in the future).

HP JetSend capabilities can be integrated into the Microsoft Windows environment. For example, using devices enabled with HP JetSend, you can capture a document with a scanner (or create a document using computer software) for distribution via the Internet to several users. Users can receive the document in their computer's InBox or print directly to their printer.



Software for Macintosh Computers

PostScript Printer Description Files (PPDs)

PPDs, in combination with the LaserWriter driver, access the printer features and allow the computer to communicate with the printer. An installation program for the PPDs and other software is provided on the compact disc. Use the LaserWriter printer driver that comes with the computer. (The LaserWriter driver is also available from Apple.)

HP LaserJet Utility

HP LaserJet Utility allows control of features that are not available in the driver. The illustrated screens make selecting printer features from the Macintosh computer easier than ever. Use the HP LaserJet Utility to do the following:

- Customize the printer's control panel messages.
- Name the printer, assign it to a zone on the network, download files and fonts, and change most of the printer settings.
- Set a password for the printer.
- From the computer, lock out functions on the printer's control panel to prevent unauthorized access. (See the printer software help.)

Continued on next page.



Fonts

80 screen fonts are installed that correspond with the 80 PS fonts resident in the printer.



Software for Networks

HP Web JetAdmin

This browser-based HP JetAdmin software can be installed on any supported server platform. The following systems are supported:

- Microsoft Windows NT
- HP-UX*
- IBM OS/2*
- Sun Solaris*

*HP Web JetAdmin is not included on the compact disc with the printer, but is available from the Internet. If you do not have access to the Internet, see the [HP Support](#) pages at the front of this user's guide to obtain this software.

Use HP Web JetAdmin to do the following:

- Install and configure printers that are connected to a network with an HP JetDirect print server.
- Manage and troubleshoot network printers from any location.



HP JetAdmin

HP JetAdmin is primarily for users who cannot use Web JetAdmin due to the lack of browser access or because none of the supported server platforms exist on their network. HP JetAdmin should be installed only on the network administrator's computer. HP JetAdmin can be accessed by clicking the **Start** button (point to **Settings**, and then click **Control Panel**) in Windows 95 and Windows NT 4.0 or from the HP LaserJet program group folder. Use HP JetAdmin to do the following:

- Install, configure, and manage printers that are connected to a network with an HP JetDirect print server.
- Manage and troubleshoot network HP printers and print servers.

The HP JetAdmin software works on the following network systems:

- Microsoft Windows NT
- Microsoft Windows 95
- Microsoft Windows 3.1x
- Novell NetWare
- HP-UX*
- Solaris*
- SunOS*
- IBM OS/2*



*The software for these systems is not included on the compact disc with the printer, but is available from the Internet. If you do not have access to the Internet, see the [HP Support](#) pages at the front of this user guide to obtain this software.



Note

Network Administrators: If the printer is attached to a network, before you can print, the printer must be configured for that network using HP JetAdmin or similar network software. (See the getting started guide.)



HP LaserJet Resource Manager

The HP LaserJet Resource Manager should be installed only on the network administrator's computer. The HP LaserJet Resource Manager allows you to control hard disk and flash memory features not found in the drivers.

Use the HP LaserJet Resource Manager to do the following:

- Initialize disk and flash memory.
- Download, delete, and manage fonts to disk and flash memory across networks.
 - ◆ PostScript Type 1, PostScript Type 42 (True Type fonts converted to PostScript format), TrueType, and PCL bitmap fonts.

Note

To download Type 1 fonts, Adobe Type Manager must be loaded and turned on.



2 *Printing Tasks*

Overview

This chapter presents **basic printing tasks**, such as:

- [Selecting the Input Tray](#)
- [Selecting the Output Bin](#)
- [Using the Stapler](#)
- [Printing Both Sides of Paper \(Optional Duplex Printing Accessory\)](#)
- [Printing Envelopes](#)
- [Printing Special Paper](#)



Selecting the Input Tray

Loading Tray 1

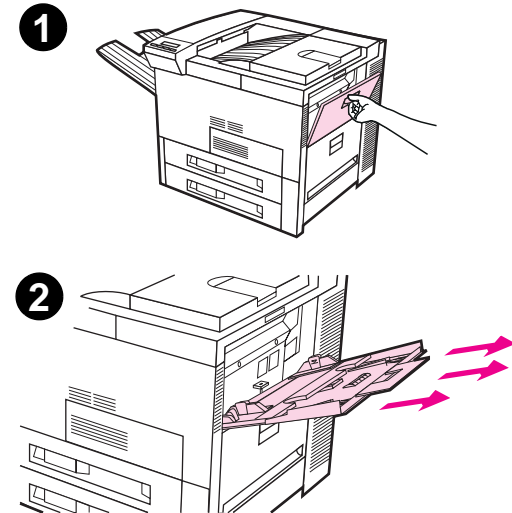
CAUTION

To avoid a paper jam, never add or remove paper from Tray 1 while the printer is printing.

To avoid damaging the printer, print labels and transparencies only from Tray 1. Send them to the Left Output Bin, and do not print them on both sides.

When printing multiple transparencies, promptly remove each transparency as soon as it emerges from the printer (so the sheets do not stick together).

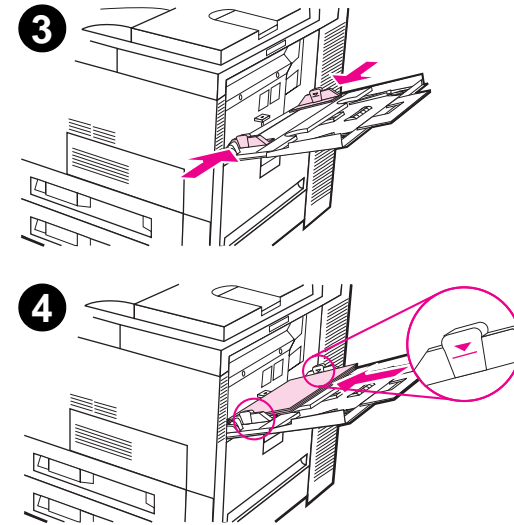
- 1 Open Tray 1.
- 2 Pull out the tray extension, if needed for the paper size you are printing.



- 3 Slide the paper width guides to the appropriate size marked on the tray.
- 4 Place paper into the tray without stacking it above the paperfill mark.

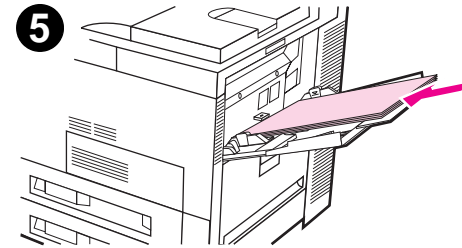
Note

For single-sided printing, place paper into the tray with side-to-be-printed up. The top of the letterhead should be toward the printer. For two-sided printing, place paper with the front side down. The top of the letterhead should be toward the printer. For prepunched paper, always load with the holes toward the printer.

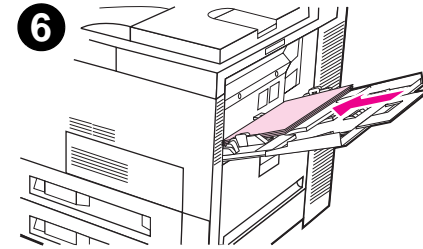


5 Paper loading differs by size:

- a. Load Letter and ISO A4 with the longer edge of the page leading into the printer.
- b. Load envelopes, Executive, Legal, 11 x 17, ISO A3, JIS B5, or JIS B4 with the short edge of the page leading into the printer.
(For more information on paper specifications, see page [256](#).)



- 6 Slide the paper into the printer until paper fits squarely and firmly between the paper width guides, without bending.



Note

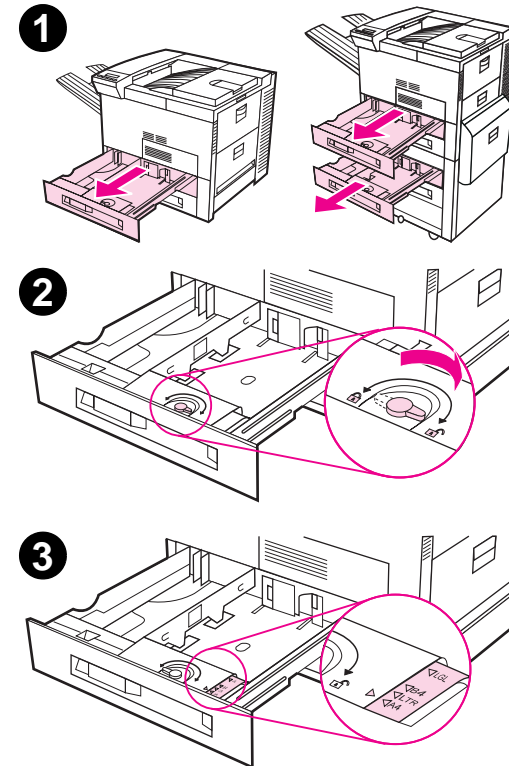
Paper heavier than 28 lb (105 g/m²) should be printed from Tray 1 to the Left Output Bin to avoid curl.

If Tray 1 is in CASSETTE mode, the printer Attention light will flash. Press - **VALUE** + to change the size to match the paper size in Tray 1 and press **SELECT**.



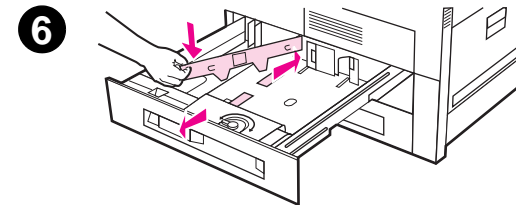
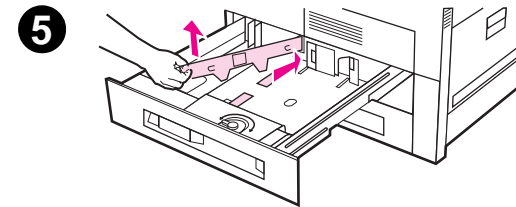
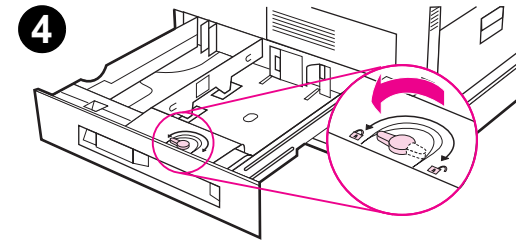
Loading Trays 2, 3, and the Optional 2 x 500-sheet Input Tray (Trays 4 and 5)

- 1 Open the tray until it stops.
- 2 Turn the paper guide lock to the unlocked position.
- 3 Slide the paper guide to the mark that indicates the size of paper you are loading.



Selecting the Input Tray

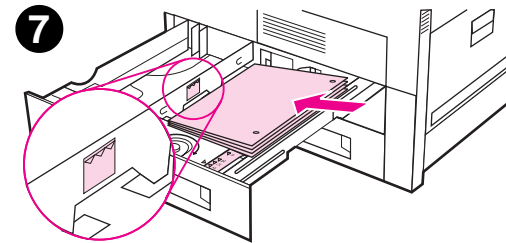
- 4 Turn the paper guide lock to the locked position.
- 5 Adjust the left paper guide by pushing in, then lifting up and out.
- 6 Position the guide over the appropriate lines marked in the tray. Press the guide into the rear slot and then lower down into the front slot. Be sure the guide is not skewed.



- 7 Insert up to 500 sheets of paper into the tray. Do not fill the input tray above the paper fill marks on the guides.

Note

For single-sided and double-sided printing, place paper into the tray with the side-to-be-printed down. The top of the letterhead should be toward the rear of the tray.

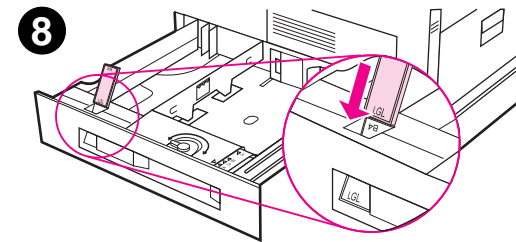


- 8 Ensure that the paper size tab is set correctly. Slide the tray back into the printer.
- 9 If you wish to select your paper by type rather than tray (source), see page [134](#).

Adjust the paper stop guide on the Standard Output Bin for paper sizes larger than Letter or A4. See page [91](#).

Note

If paper curls or skews excessively during printing, open the tray and turn the stack of paper over. To avoid a paper jam, never open the tray while it is in use.



Loading the Optional 2000-sheet Input Tray (Tray 4)

An optional 2000-sheet Input Tray (Tray 4) is available for the printer. The tray fits under the printer, and acts as a base. For paper specifications, see page [254](#).

Continued on next page.



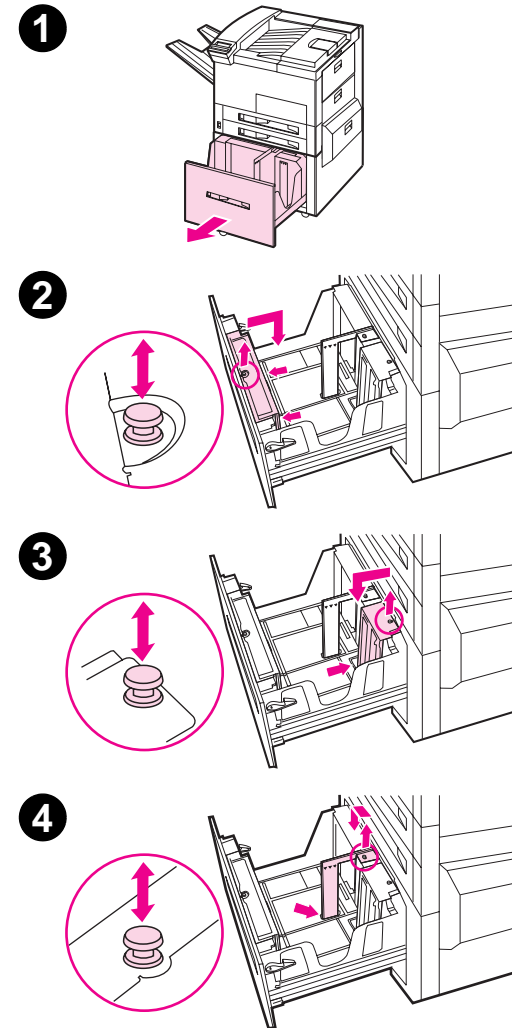
Selecting the Input Tray

- 1 Slide Tray 4 open until it stops.
- 2 Pull the front guide out by the blue pin. Place the guide into the slots in the top and bottom of the input tray that correspond to the paper size you are loading and push in the pin.
- 3 Repeat step 2 to adjust the back guide.
- 4 Repeat step 2 to adjust the left guide.

Note

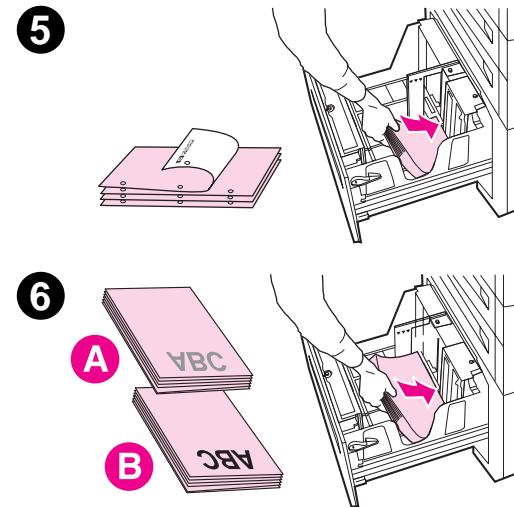
To load 11 by 17 inch paper, move the left guide to the back of the tray.

Continued on next page.



Load up to 2000 sheets of paper into the tray. Do not allow paper to extend above the paperfill mark on the sides.

- 5 Load Letter or A4 paper with the top of the page toward the rear of Tray 4, side-to-be-printed down (A) for single-sided printing. For two sided printing, load front side up.
- 6 Load 11 x 17, Legal, A3, or JIS B4 paper with top of the page toward the right of the printer. For two sided printing, load front side up (B).

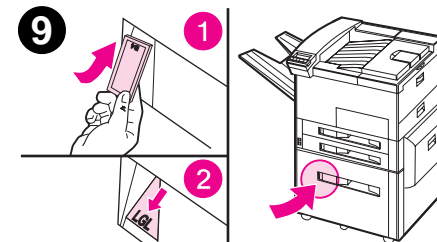
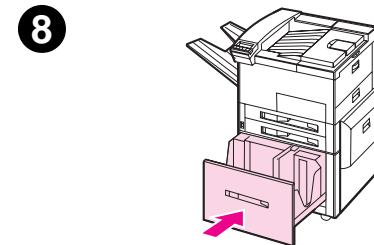
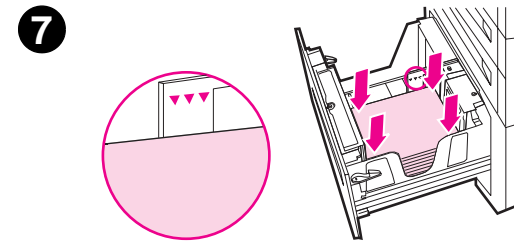


- 7 Press down on all four corners of the paper stack to ensure the paper rests flat in the tray, without bending.
- 8 Close Tray 4.
- 9 Ensure that the paper size tab is set correctly.

Note

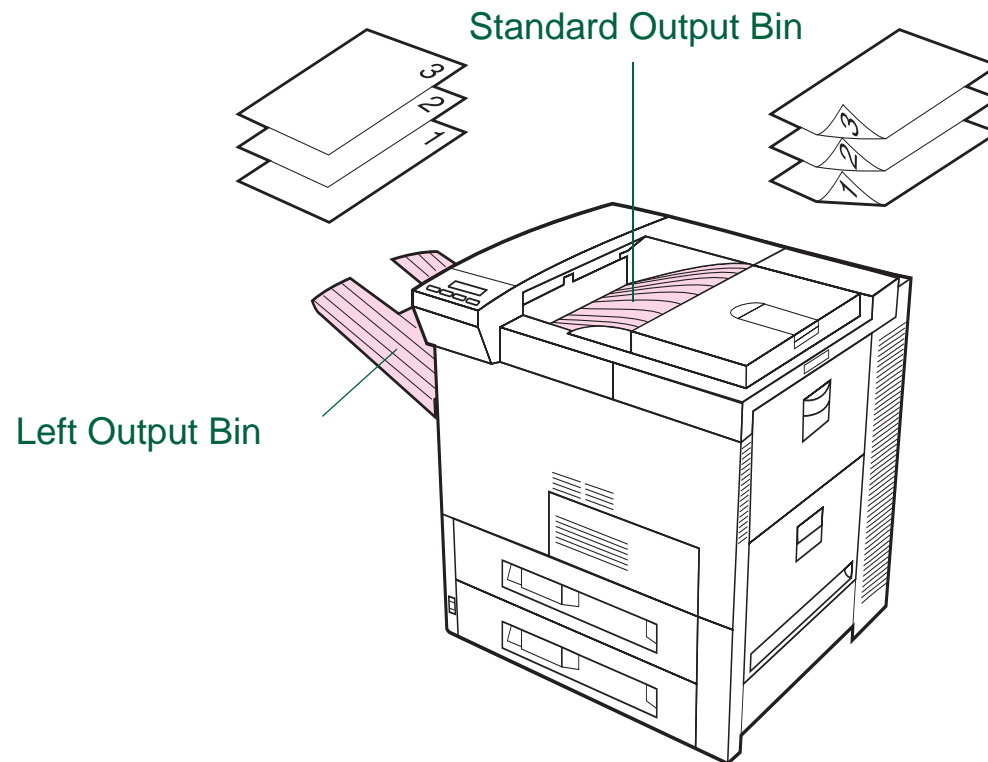
See [Printing by Type and Size of Paper](#) on page [134](#) to set the type of paper you loaded in the tray.

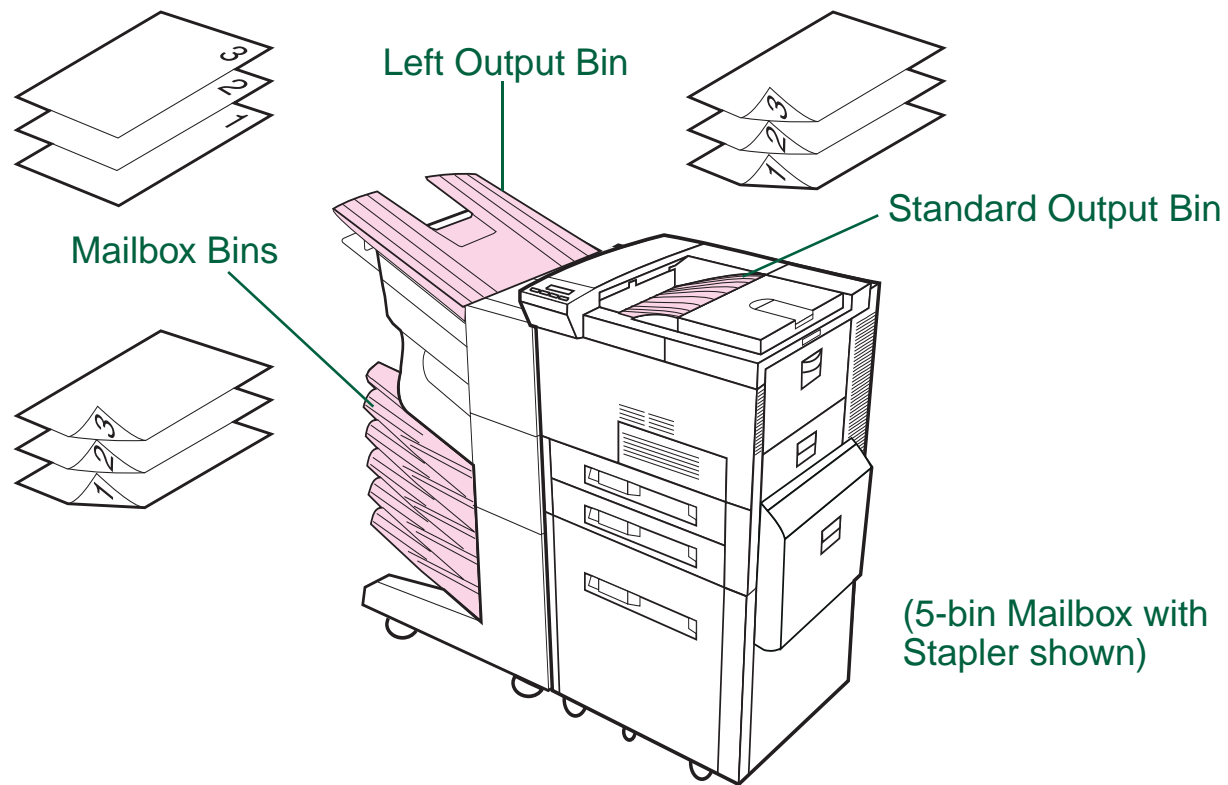
If using the Standard Output Bin, remember to adjust the paper stop guide on the output bin. See page [91](#).



Selecting the Output Bin

The printer has several output locations: the Standard Output Bin, the Left Output Bin, and the optional Mailboxes (the 7-bin Tabletop Mailbox, the Multibin Mailbox (8 bins), and the 5-bin Mailbox with Stapler).





Note

For best results, use the Left Output Bin to print envelopes, labels, or transparencies.

Selecting the Output Bin



Printing to the Standard Output Bin

The Standard Output Bin, located at the top of the printer, holds up to 500 sheets of paper in the correct order as they exit the printer. A sensor causes the printer to stop when the paper bin is full. Printing continues when you empty or reduce the amount of paper in the bin. The Standard Output Bin is the factory default bin.

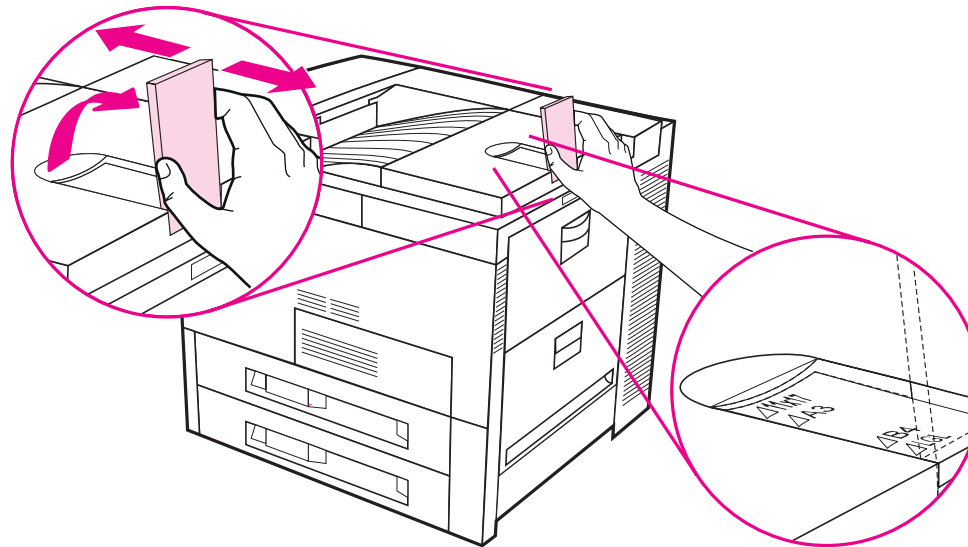


Selecting the Output Bin

Adjusting the Paper Stop

The paper stop, illustrated below, is located near the Standard Output Bin. It can be adjusted to help paper lay flat as it exits the printer. The paper stop does not have to be raised for Letter or A4 size paper. Note that the printer jams if the paper stop is set to a smaller size of paper than is being printed.

1. Pull the left side of the paper stop up until the stop is in an upright position.
2. Slide the paper stop to the mark indicating the largest paper size to be printed.



Printing to the Left Output Bin

The Left Output Bin, located on the upper left side of the printer, holds up to 125 sheets of paper face up as they exit the printer. This bin is mainly used for special paper types, such as labels, envelopes, or transparencies, that cannot tolerate the curved paper path of the Standard Output Bin. This output bin does not sense when the bin is full.

You can select an output bin through your software application, printer driver, or from the printer control panel.



Selecting the Output Bin

Printing to a Mailbox

The following Mailboxes are available for the printer:

- 7-bin Tabletop Mailbox (each bin holds up to 120 sheets of paper)
- Multibin Mailbox (8 bins, each bin holds up to 250 sheets of paper)
- 5-bin Mailbox with Stapler (each bin holds up to 250 sheets of paper)

These mailboxes attach to the left side of the printer. They can work in one of the following modes:

Modes

Mailbox	Each bin can be addressed individually as the output destination, and can have a name assigned to it by the network or printer administrator.
Collator	In this mode, the device automatically separates mopies. Each mopy is delivered in consecutive bins, starting from the Left Output Bin. In this case, one job contains several mopies.
Job Separation	Automatically separates incoming jobs, assigning a bin to each job, which may include multiple copies. It uses all mailbox bins for this purpose, but is seen in the printer software as one logical bin. If a mailbox bin is full, the printer automatically sends the job to the next available bin if selected in JetAdmin.

Selecting the Output Bin



Modes (continued)

Stacking	This mode stacks the printed output from the lowest bin to the top, regardless of job boundaries. This mode of operation takes advantage of the total capacity of the mailbox bins. The device is seen by the software as one logical bin.
-----------------	--

How to Configure the Operating Modes

The network or printer administrator chooses the mode of operation through an HP network configuration utility, such as HP JetAdmin or HP LaserJet Utility. You will need to set up your printer driver to reflect the mode chosen by the administrator.

Bidirectional Environment

The printer automatically selects the mode established by the network administrator.

Nonbidirectional Environment

You can change the mode in the driver. The method for changing the mode varies with driver and by operating system. Refer to your driver's online help.

The printer control panel will display different messages depending on the mailbox used and which mode you are using. See the printer software help for more information.



Mailbox Mode

	In Mailbox Mode, if the Control Panel says:	Then the physical location is:
5-bin Mailbox with Stapler	OPTIONAL BIN 1	Left Output Bin
	OPTIONAL BIN 2 through 6	Mailbox 1-5
	OPTIONAL BIN 7	Stapler Bin
7-bin Tabletop Mailbox	OPTIONAL BIN 1	Left Output Bin
	OPTIONAL BIN 2 through 8	Mailbox 1-7
Multibin Mailbox (8 bins)	OPTIONAL BIN 1	Left Output Bin
	OPTIONAL BIN 2 through 9	Mailbox 1-8



Job Separation, Collator, and Stacking Modes

	In Job Separation, Collator, and Stacking Modes, if the Control Panel says:	Then the physical location is:
5-bin Mailbox with Stapler	OPTIONAL BIN 1	Left Output Bin
	OPTIONAL BIN 2	Mailbox 1-5
	OPTIONAL BIN 3	Stapler Bin
7-bin Tabletop Mailbox	OPTIONAL BIN 1	Left Output Bin
	OPTIONAL BIN 2	Mailbox 1-7
Multibin Mailbox (8 bins)	OPTIONAL BIN 1	Left Output Bin
	OPTIONAL BIN 2	Mailbox 1-8

Note The Mailboxes handle all of the printer's supported paper sizes (page [256](#)). Envelopes, labels, and transparencies should only be sent to the Left Output Bin.

The stapler is located on the left side of the 5-bin Mailbox with Stapler. The stapler can staple jobs of 2 to 20 sheets on 20 lb. paper. The stapler bin can hold a maximum of 350 sheets. Only jobs sent to the stapler bin will be stapled.

Selecting the Output Bin

Selecting a Mailbox through the Software

You can select mailboxes through your software application, printer driver, or from the printer control panel. Otherwise, follow the instructions below for setting the overall default printer output bin selection. Where and how you make selections depends on your software application or associated printer driver. (Some options may only be available through the printer driver.)

Selecting Mailboxes from the Control Panel

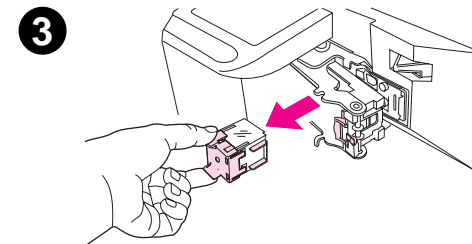
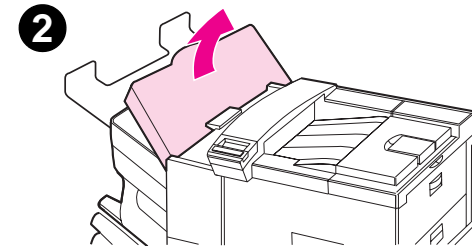
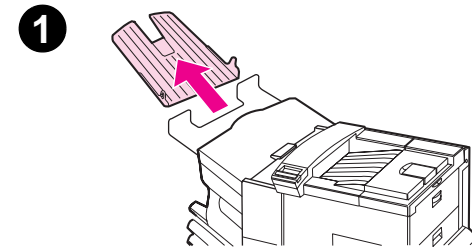
1. Press **MENUS** repeatedly until PAPER HANDLING appears.
2. Press **ITEMS** repeatedly until PAPER DEST= STANDARD OUT BIN * appears.
3. Press **+** repeatedly until PAPER DEST= OPTIONAL BIN x appears. The x represents a number that varies depending upon the mailbox selected and the operating mode used. Your network administrator may have changed these names.
4. Press **SELECT** to save your choice. An asterisk (*) appears next to your selection.



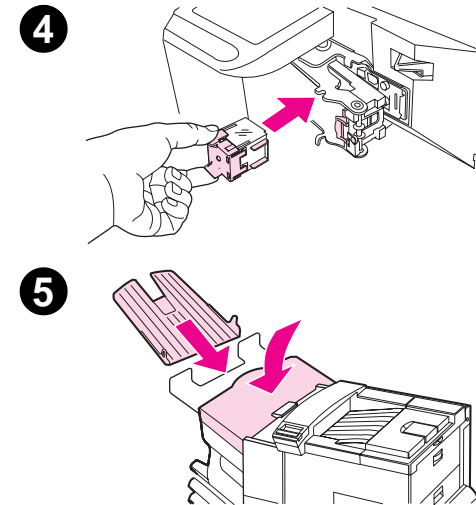
Using the Stapler

Loading Staple Cartridges

- 1 Turn off the printer and remove the Left Output Bin.
- 2 Open the stapler unit cover.
- 3 Squeeze the stapler cartridge tabs together and pull the empty staple cartridge out.



- 4 Remove the plastic shipping clip from the new staple cartridge. Insert the new staple cartridge so that it snaps into place.
- 5 Close the stapler unit cover, replace the Left Output Bin, and turn the printer on.



Stapling Documents

The stapler can staple documents of 2 to a maximum of 20 pages on 16 to 28 lb paper, Letter, Legal, and A4 size only. For paper beyond 20 lb, fewer sheets can be stapled depending upon the weight of the paper. The stapler should not be set as the default output bin. If your job is only one page, or if it is greater than 20 pages, the printer will print your job to the bin, but it will not be stapled. The stapler bin can hold up to 350 stapled sheets. To have your job stapled, send it to `OPTIONAL BIN x`. See pages [95](#) and [96](#) to choose the appropriate bin according to the mode you are using.

Selecting the Stapler through the Software

You can select the stapler through your software application or printer driver. This is the recommended method for stapling. If you are unable to designate the paper destination in your software or printer driver, follow the instructions below for setting the overall default printer output bin selection. Where and how you make selections depends on your software application or associated printer driver. (Some options may only be available through the printer driver. See page [55](#) for more information on accessing the printer driver.)



Selecting the Stapler from the Control Panel

If your software does not support stapling, set it using the directions below.

1. Press **MENUS** repeatedly until PAPER HANDLING appears.
2. Press **ITEMS** repeatedly until PAPER DEST= STANDARD OUT BIN * appears.
3. Press **+** repeatedly until PAPER DEST= OPTIONAL BIN x appears. (See pages [95](#) and [96](#) to choose the appropriate bin according to the mode you are using.) Your network administrator may have changed the name of this bin. For example, it may be called STAPLER.
4. Press **SELECT*** to save your choice. An asterisk (*) appears next to your selection.

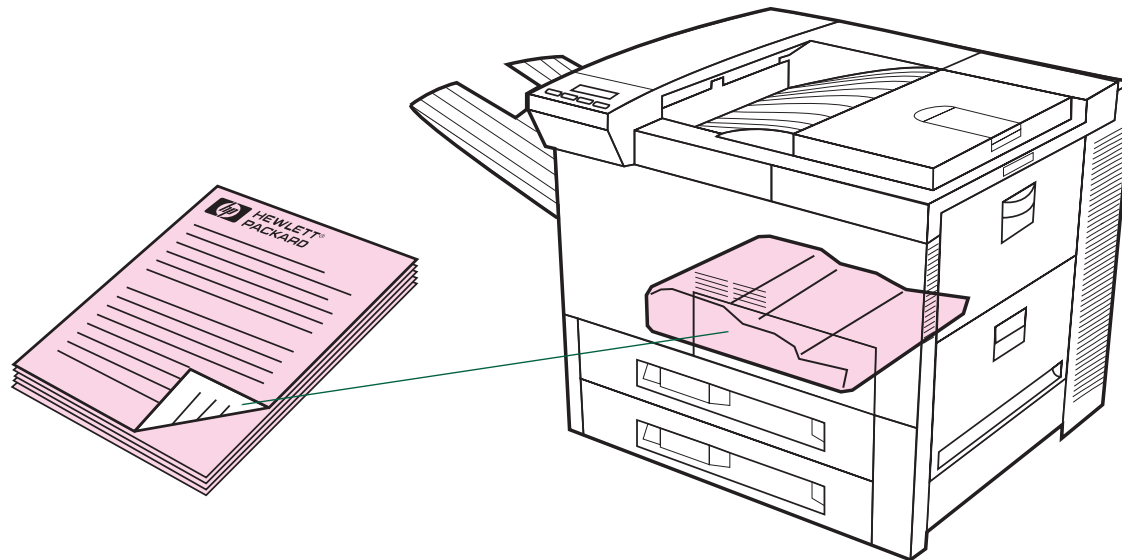


Printing Both Sides of Paper (Optional Duplex Printing Accessory)

The printer can automatically print on both sides of paper with an optional duplex printing accessory (duplexer). This is called duplexing.

Note

See the documentation included with the duplexer for complete installation and setup instructions. Duplexing might require additional memory (page [310](#)).



Guidelines for Printing Both Sides of Paper

CAUTION

Do not print on both sides of labels, transparencies, envelopes, or paper heavier than 28 lb (105 g/m²). Damage to the printer and paper jamming might result.

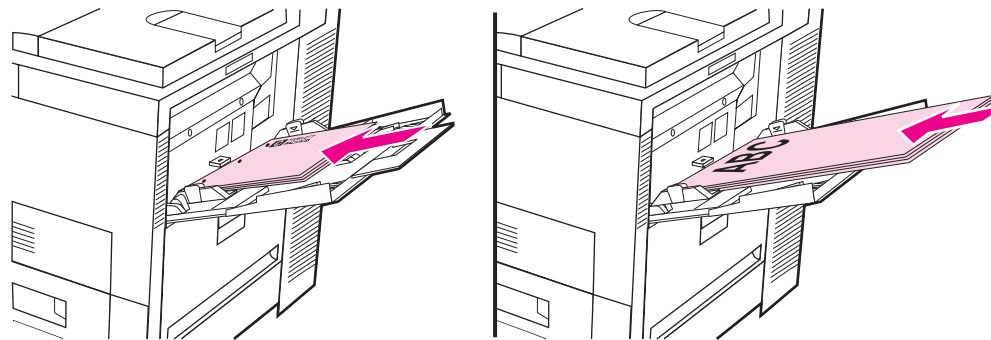
- You might need to configure the printer driver to recognize the duplexer. (See the printer software help for details.)
- To print on both sides of paper, make the selection from the software or printer driver. (See the printer software help.)
- If the printer driver does not have this option, change the Duplex setting from the Paper Handling Menu in the printer's control panel to DUPLEX=ON. Also in the Paper Handling Menu, set Binding to long edge or short edge. (For more information, see page [106](#).)



Paper Orientation for Printing Both Sides of Paper

The duplexer prints the second side of paper first, so paper such as letterhead and preprinted paper needs to be oriented as shown.

Tray 1

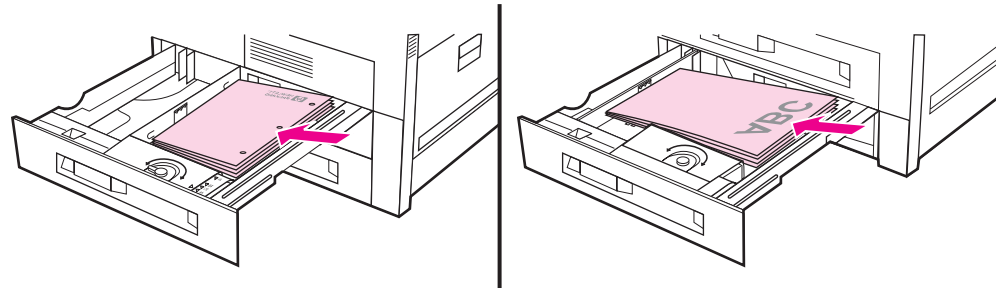


- Load letter and A4 paper with the side-to-be-printed facing up, and the top, short edge toward the back.
- Load other sizes of paper with the side-to-be-printed facing up, and the top, short edge toward the printer.

Continued on next page.



All other trays

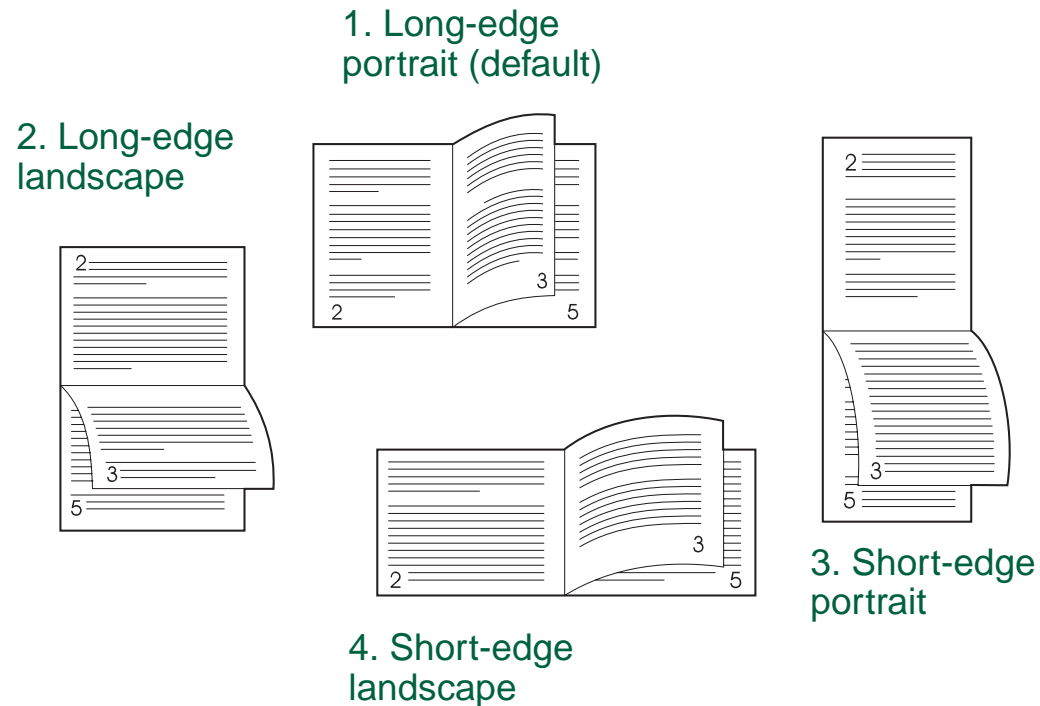


- Load letter and A4 paper with the side-to-be-printed facing down, and the top, short edge toward the back.
- Load other sizes with the side-to-be-printed facing down, and the top, short edge toward the right of the tray.



Layout Options for Printing Both Sides of Paper

The four print orientation options are shown below. These options can be selected from the printer driver or from the printer's control panel (set **BINDING** from the Paper Handling Menu and **ORIENTATION** from the Printing Menu).



Printing Envelopes

Feeding Envelopes Automatically (Optional Envelope Feeder)

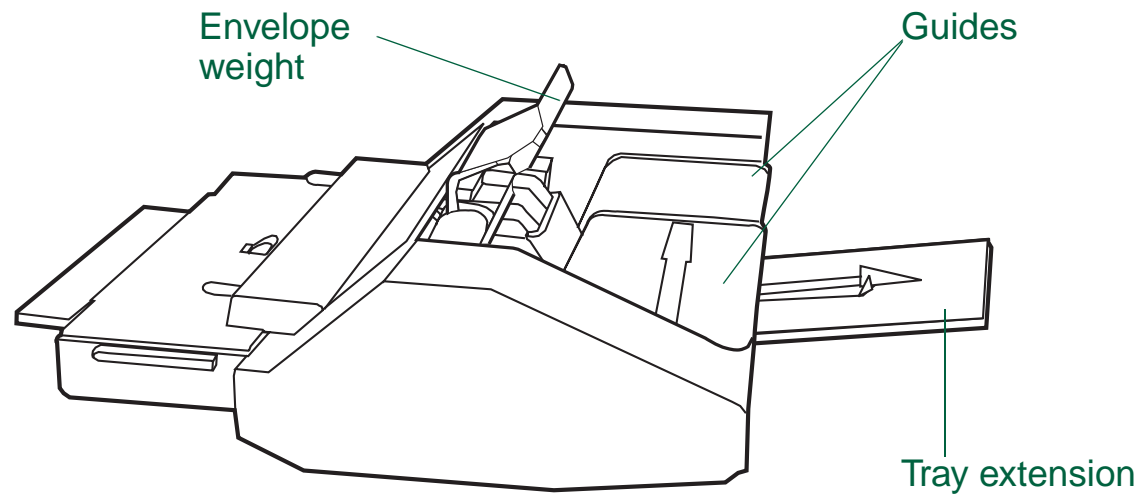
With the optional envelope feeder, the printer will automatically feed up to 100 envelopes. (For supported envelope sizes, see page [256](#).) To print envelopes without an envelope feeder, see page [111](#).

Note See the documentation included with the envelope feeder for complete installation and setup instructions.

You might need to configure the printer driver to recognize the envelope feeder. See the printer software help for details.

Continued on next page.

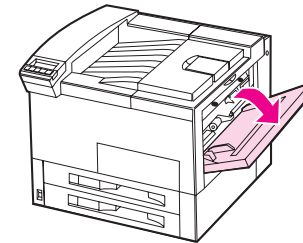




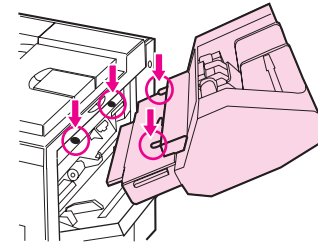
Inserting the Envelope Feeder

- 1 Open Tray 1 and remove the cover over the opening for the envelope feeder.
- 2 Locate the pins on the envelope feeder and the corresponding holes on the printer.
- 3 Align the envelope feeder with the corresponding printer rails.
- 4 Slide the envelope feeder into the printer until it locks into place.

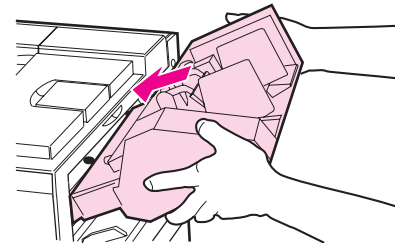
1



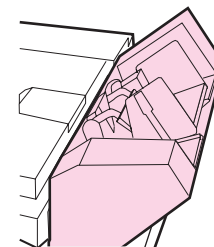
2



3



4



Loading Envelopes into the Envelope Feeder

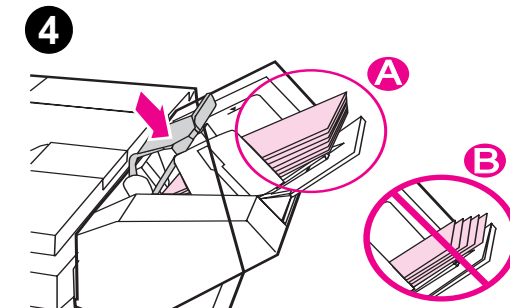
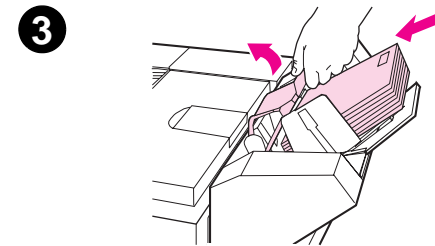
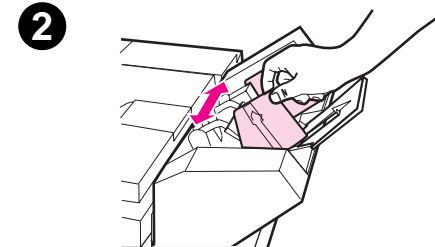
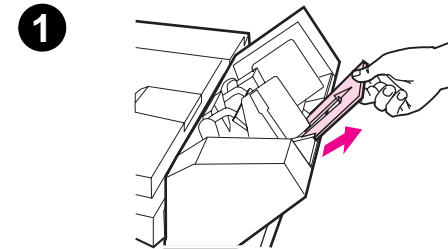
Note

Print only envelopes approved for use in the printer (page [267](#)).

- 1 Pull out the envelope tray extender. The tray extender will help reduce jams.
- 2 Adjust the width guides to the size of the envelopes to be used.
- 3 Lift the envelope weight lever, and insert the envelopes up to the fill mark.
- 4 Lower the lever. The envelopes should be angled as shown (A). Do not angle them the opposite direction (B).

Note

Select the envelope size from the software application (if the setting is available), the printer driver, and the Paper Handling Menu in the printer's control panel (page [283](#)). To print by type and size of paper, see page [134](#).



Printing Envelopes from Tray 1

With the optional envelope feeder, the printer will automatically feed up to 100 envelopes. To order an envelope feeder, see page [36](#). To print with the envelope feeder, see page [107](#).

Many types of envelopes can be printed from Tray 1. (Up to 10 can be stacked in the tray.) Printing performance depends on the construction of the envelope. Always test a few sample envelopes before purchasing a large quantity.

- Set margins at least 0.6 in.(15 mm) from the edge of the envelope.

WARNING!

Never use envelopes with coated linings, exposed self-stick adhesives, or other synthetic materials. These items can emit noxious fumes.

CAUTION

Envelopes with clasps, snaps, windows, coated linings, exposed self-stick adhesives, or other synthetic materials can severely damage the printer.

To avoid jamming and possible printer damage, never try to print on both sides of an envelope.

Before you load envelopes, make sure they are flat and not damaged or stuck together. Do not use envelopes with pressure-sensitive adhesive. (For envelope specifications, see page [267](#).)



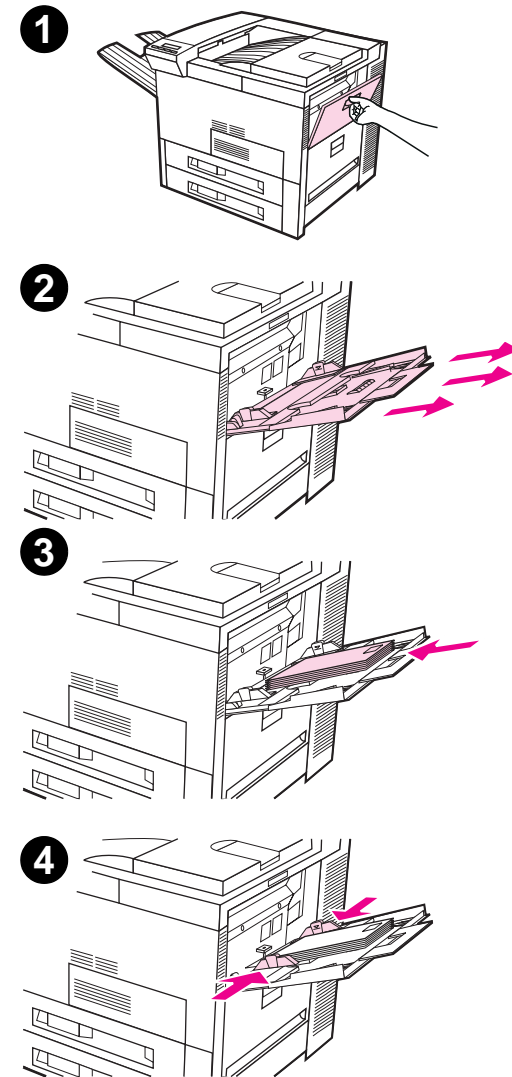
Loading Envelopes in Tray 1

- 1 Open Tray 1.
- 2 If necessary, pull out the tray extension for the envelope size you are printing.
- 3 Place up to ten envelopes between the paper width guides, face up, with the back flap lying against the rear paper guide.
- 4 Slide the paper width guides until they lightly touch both sides of the envelope stack without bending it.

Note

Paper heavier than 28 lb (105 g/m²) should be printed from Tray 1 to the Left Output Bin to avoid curl.

If Tray 1 is in CASSETTE mode, the printer Attention light will flash. Press - **VALUE** + to change the size to match the paper size in Tray 1 and press **SELECT**.



Printing Envelopes from Your Software Application

- 1 Load up to ten envelopes into Tray 1.
- 2 Specify Tray 1, Automatic, or select the paper source by type in your software application, and set the envelope size and type to the appropriate envelope size (page [267](#)).
- 3 If your software does not automatically format an envelope, specify Landscape for page orientation in your application.

CAUTION

To avoid a printer jam, do not remove or insert an envelope once you begin printing.

For best print quality, use the following table to set margins for a return and mailing address. It gives you typical address margins for a Commercial #10 or DL envelope. Avoid printing over the area where an envelope's three back flaps meet.



Printing Special Paper



Printing Letterhead or Preprinted Paper

Special paper includes letterhead, envelopes, labels, transparencies, full-bleed images, rotated paper, postcards, custom-size, and heavy paper.



When printing letterhead or preprinted paper, it is important to load the trays with the correct orientation.



Note

Paper orientation can differ when you print with an optional duplexer (page [104](#)).

Printing in portrait or landscape mode is usually selected from the software application or printer driver. If the option is not available, change the Orientation setting from the Printing Menu in the printer's control panel (page [290](#)).

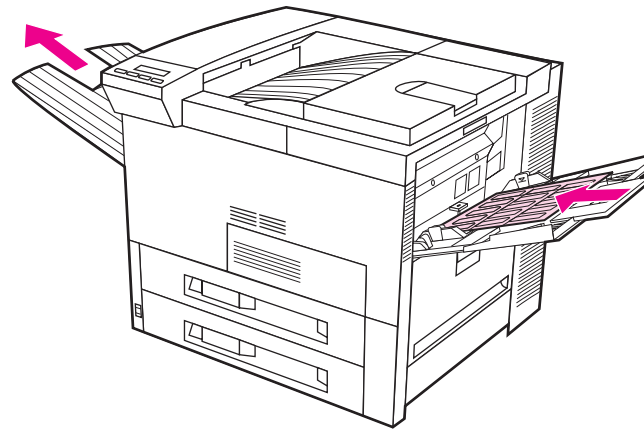


Printing Labels

Use only labels recommended for use in laser printers. Make sure that labels meet the specifications for the input tray you use ([page 265](#)).

Do:

- Print a stack of 50 labels from Tray 1.
- Load labels with the side-to-be-printed facing up, and the top, short edge toward the back, if they are letter or A4 size. For other sizes, see [page 104](#).
- Use the Left Output Bin for printing labels.



Continued on next page.



Do not:

CAUTION Failure to follow these instructions can damage the printer.

- Do not load the trays to capacity because labels are heavier than paper.
- Do not use labels that are separating from the backing sheet, wrinkled, or damaged in any way.
- Do not use labels that have the backing sheet exposed. (Labels must cover the entire backing sheet with no exposed spaces.)
- Do not feed a sheet of labels through the printer more than once. The adhesive backing is designed for only one pass through the printer.
- Do not print on both sides of labels.
- Do not send labels to a mailbox.

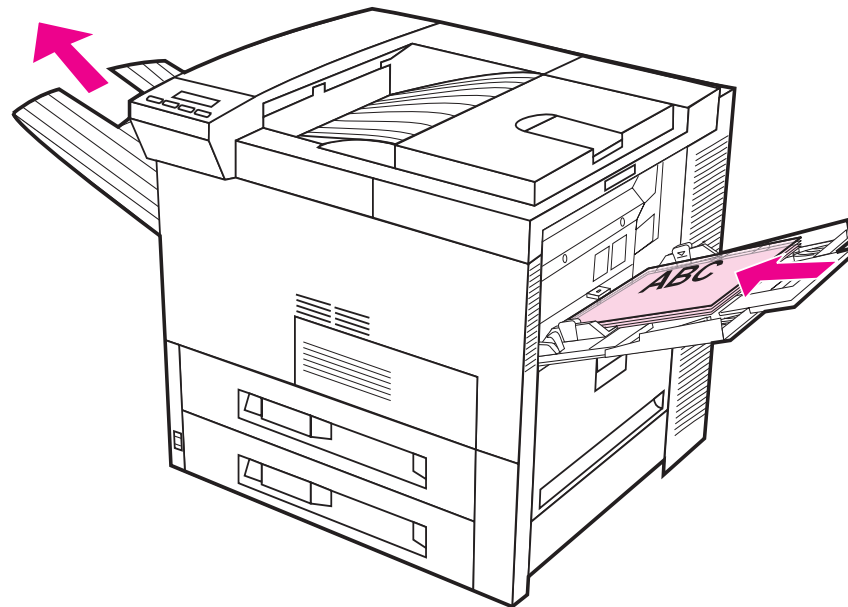


Printing Transparencies

Overhead transparencies used in HP LaserJet printers must be able to withstand the 392°F (200°C) temperature encountered in the printer's fusing process.

Use only transparencies recommended for use in laser printers. Because transparencies tend to stick to each other, remove each transparency from the output bin before printing the next one.

Use the Left Output Bin for printing transparencies.



Custom-size Paper in Tray 1

You can print on custom-size paper from Tray 1. For paper specifications, see page [256](#).


Printing on the Smallest-Sized Paper


If you are using the printer driver to set the paper size, under the **Custom** button, select the paper tab and set the paper size.

Some software applications require you to calculate margins in order to print on custom-size paper. The following example is provided as a guideline. Adapt this example to your paper size and unit of measurement.

- 1 In your software application, select **Tray 1** for the paper source and **Maximum** (Windows PCL) or **Oversize** (Macintosh and Windows PS) for the paper size.

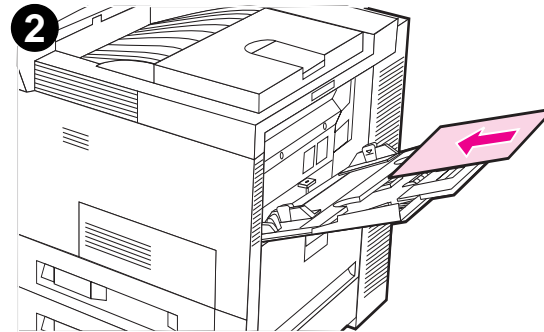
1

Paper Source: 

Paper Size: 



- 2** Calculate margins to identify the area to be printed. Illustration 2 and the steps below show how to calculate a margin for 3.67 by 7.5 in. (93 by 191 mm) paper.



- a. Take the maximum paper width size 11.7 in. (297 mm) and subtract 3.67 in. (93 mm) for the width of the paper. Take the answer, 8.1 in. (204 mm), and divide it by 2, which equals 4.1 in. (102 mm).

In your software application, select a left margin of 4.1 in. (102 mm) and a right margin of 4.1 in. (102 mm).

- b. If your software allows, also set the bottom margin. Take the maximum paper length size, 17.7 in. (450 mm), and subtract 7.5 in. (191 mm), the length of the paper. The bottom margin equals 10.2 in. (259 mm).



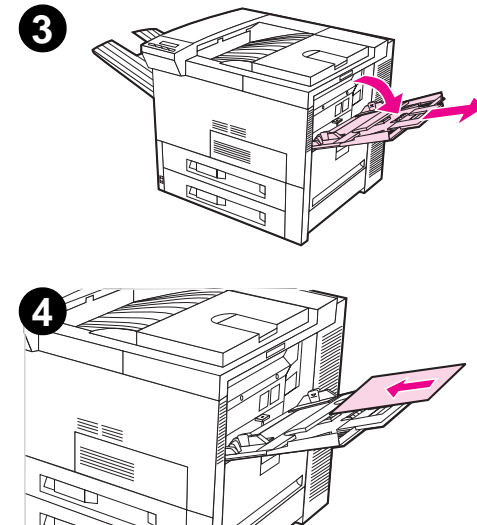
- 3 Print custom-size paper from Tray 1. See [“Loading Tray 1”](#) on page 76.
- 4 The edge of the paper feeding into the printer must be at least 3.67 in. (93 mm) wide to allow rollers inside the printer to grab the paper. Measuring from the leading edge to the trailing edge of the paper, the length must be at least 7.5 in. (190 mm).

Note

For more information on paper specifications, see page [256](#).

Printing Bleeds

Since the printer has the ability to print on specially cut paper up to 11.7 by 17.7 in. (297 by 450 mm), you can print up to 11 by 17 in. (279 by 432 mm) bleed images with crop marks. Refer to your software application or online help.



Printing Cards, Custom-size and Heavy Paper

Custom-size paper can be printed from Tray 1. For paper specifications, see [Paper Specifications](#) starting on page [254](#).

Note

The printer's control panel can be set for one custom size at a time. Do not load more than one size of custom paper into the printer.



Guidelines for Printing Custom-size Paper

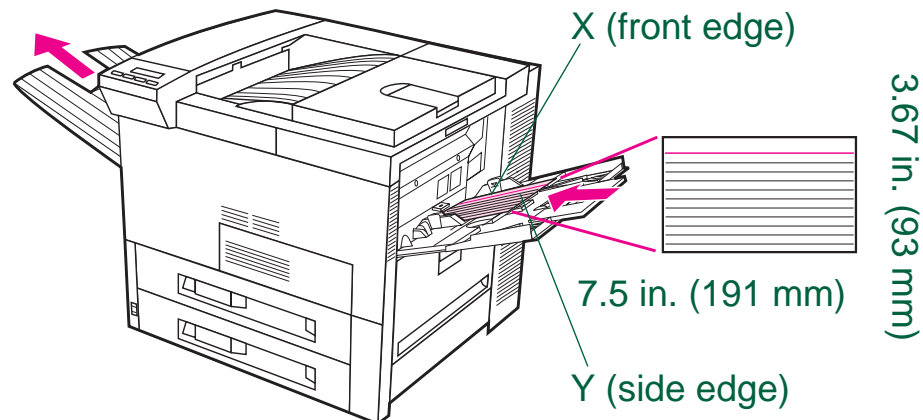
- Do not attempt to print on paper smaller than 3.67 inches (93 mm) wide or 7.5 inches (191 mm) long.
- Set page margins at least .17 inch (4.23 mm) away from the edges.

Setting Custom Paper Sizes

When custom paper is loaded, size settings need to be selected from the software application (the preferred method), the printer driver, or from the printer's control panel.

Note

Settings in the printer driver and software application override control panel settings. (Software application settings override printer driver settings.)



Continued on next page.



If the settings are not available from the software, set the custom paper size from the control panel:

1. From the Printing Menu set `CONFIGURE CUSTOM PAPER=YES`.
2. From the Printing Menu, select inches or millimeters as the unit of measurement.
3. From the Printing Menu, set the X dimension (the front edge of the paper) as shown in the illustration above. X can be from 3.67 to 11.7 in. (from 93 to 297 mm) for Tray 1. Set the Y dimension (the side edge of the paper) as shown in the illustration above. Y can be from 7.5 to 17.7 in (from 191 to 450 mm) for Tray 1.
4. If custom paper is loaded into Tray 1 and `TRAY 1 MODE=CASSETTE`, then set `TRAY 1 SIZE=CUSTOM` from the Paper Handling Menu in the printer's control panel. See [“Customizing Tray 1 Operation”](#) on page [131](#).
5. In the software, select **Custom** as the paper size.

For example, if the custom paper is 8 by 10 inches (203 by 254 mm), set X=8 inches and Y=10 inches (X=203 millimeters and Y=254 millimeters).

The X and Y dimensions must be set in the Configure Custom Paper Setting of the Printing Menu if the PCL 5e driver is used, or custom paper is loaded long-edge first (X is longer than Y).



3 *Advanced Printing Tasks*



Overview

This chapter introduces some **advanced printing tasks** to help you take full advantage of the printer's features. These tasks are “advanced” because they require you to change settings from a software application, the printer driver, or the printer's control panel.

- [Using Features in the Printer Driver](#)
- [Different First Page](#)
- [Customizing Tray 1 Operation](#)
- [Printing by Type and Size of Paper](#)

Note

Only use PCL 5e for backward compatibility. Most of the features in this section do not apply to PCL 5e. We recommend the use of PCL 6 or PostScript Emulation to take best advantage of the features in this printer.

Not all features are compatible with all drivers.



Using Features in the Printer Driver

When you print from a software application, many of the printer's features are available from the printer driver. To access Windows printer drivers, see page [63](#).

Note HP PCL 5e, PCL 6, PS, and Macintosh drivers are slightly different. Check the drivers for available options. The PCL 6 driver takes full advantage of the printer's features.

Settings in the printer driver and software application override control panel settings. (Software application settings override printer driver settings.)

Printer Collation

The Printer Collation feature allows multiple original prints (mopying) which provides you the following advantages:

- Reduces network traffic
- Faster return to application
- All documents are original

Continued on next page.



RIP ONCE

RIP ONCE allows the print job to be processed one time at the printer. The formatted print job can then be printed multiple times without pausing to process the print job again. This feature is normally active. To disable this feature you must turn off collation at the printer driver or in the control panel menu.

Saving Printer Setup Information

Printer drivers allow you to save the printer settings you use most often as the default settings. For example, the driver might be set to print on letter size paper, portrait orientation, with automatic tray selection (from the first available tray).

Some PCL 6 printer drivers will allow you to save printer settings for multiple kinds of print jobs. For example, you might want to create a Quick Set for envelopes, or for printing the first page of a document on letterhead.

New Printer Driver Features

Look for **Quick Sets**, **Scale to Fit** (any page size to any page size), and **Booklet Printing** options in the Windows PCL 6 printer driver, or see the printer driver help for more information.

Continued on next page.



Printing with a Watermark

A watermark is a notice, such as “Top Secret,” printed in the background of each page in a document. Check the driver for available options.



Different First Page

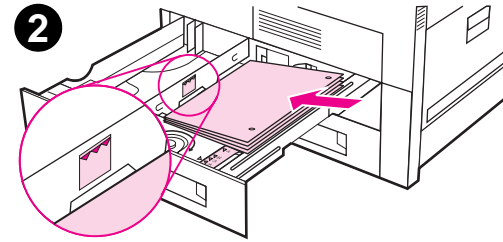
- 1 Select “Use different paper for first page” in your printer driver. Choose Tray 1 (or Manual Feed) for the first page and one of the other trays for the remaining pages. Place the paper for the first page in Tray 1. (For manual feed, place paper in Tray 1 after the job is sent to the printer, and the printer requests paper.) Place the paper with the side-to-be-printed up, the top of the page facing the rear of the printer, and the long edge leading into the printer.

Note

Where and how you make selections depends on your software application or associated printer driver. (Some options may only be available through the printer driver.)



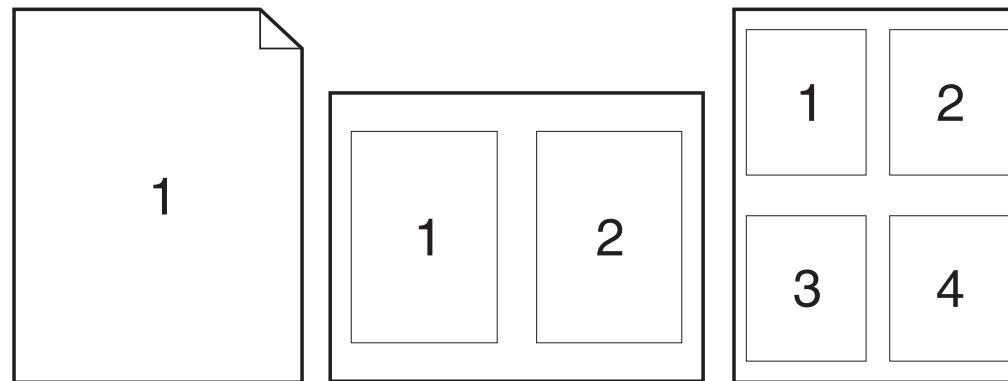
- 2 Load the paper for the remaining pages of the document into another tray. You may select the first and remaining pages by type of paper. For more information, see [“Printing by Type and Size of Paper”](#) on page 134.



Printing Multiple Pages on One Sheet of Paper

You can print more than one page on a single sheet of paper. This feature is available in some printer drivers, and provides a cost-effective way to print draft pages.

To print more than one page on a sheet of paper, look for a Layout or Pages Per Sheet option in the printer driver. (This is sometimes called 2-up, 4-up, or n-up printing.)



Customizing Tray 1 Operation

Customize Tray 1 to fit your printing needs.

The printer can be set to print from Tray 1 as long as it is loaded, or to print only from Tray 1 if the type of paper loaded is specifically requested. Set `TRAY 1 MODE=FIRST` or `TRAY 1 MODE=CASSETTE` from the Paper Handling Menu in the printer's control panel. (Print speed might be slightly slower when printing from Tray 1 when `TRAY 1 MODE=FIRST`.)

Tray 1 Mode=First

If you do not keep paper in Tray 1 all the time, or you use Tray 1 only for manually feeding paper, keep the default setting, `TRAY 1 MODE=FIRST` in the Paper Handling Menu.

- `TRAY 1 MODE=FIRST` means that the printer usually pulls paper from Tray 1 first unless it is empty or closed.
- You can still choose paper from other trays by specifically choosing another tray in the printer driver or from your software application.



Tray 1 Mode=Cassette

TRAY 1 MODE=CASSETTE means the printer treats Tray 1 like the internal trays. Instead of looking for paper in Tray 1 first, the printer pulls paper either starting from the bottom tray upward (from the tray with the highest capacity to the tray with the least capacity), or the tray that matches type or size settings selected from the software.

- When TRAY 1 MODE=CASSETTE is set, an option appears in the Paper Handling Menu to configure **size** as well as **type** settings for Tray 1.
- Through the printer driver or from within your software application, you can select paper from any tray (including Tray 1) by type, size, or source. To print by type and size of paper, see page [134](#).



Manually Feeding Paper from Tray 1

The Manual Feed feature allows you to print on special paper from Tray 1, such as envelopes or letterhead. If Manual Feed is selected, the printer will print only from Tray 1.

Select Manual Feed through the software or printer driver. Manual Feed can also be enabled from the Paper Handling Menu in the printer's control panel.

Note

When Manual Feed is selected, if TRAY 1 MODE=FIRST the printer automatically prints (if paper is in the tray). If TRAY 1 MODE=CASSETTE the printer prompts to load Tray 1 whether or not Tray 1 is loaded. This enables you to load different paper if necessary. Press **Go** to print from Tray 1.



Printing by Type and Size of Paper

You can configure the printer to select paper by **type** (such as plain or letterhead) and **size** (such as letter or A4), as opposed to **source** (a paper tray).

Benefits of Printing by Type and Size of Paper

If you frequently use several different kinds of paper, once trays are set up correctly, you do not have to check which paper is loaded in each tray before you print. This is especially helpful when the printer is shared, and more than one person loads or removes paper.

Printing by type and size of paper is a way to be sure that print jobs always print on the desired paper. (Some printers have a feature which “locks out” trays, to prevent printing on the wrong paper. Printing by type and size of paper eliminates the need to lock out trays.)

To print by type and size of paper, do the following:

1. Be sure to adjust and load the trays correctly. (See the sections on loading paper, starting on page [76](#).)

Continued on next page.



2. From the Paper Handling Menu in the printer's control panel, select the paper **type** for each tray. If you are unsure what type you are loading (such as bond or recycled), check the label on the package of paper. For supported types, see page [259](#).
3. Select the paper **size** settings from the control panel.
 - **Tray 1:** If the printer has been set to `TRAY 1 MODE=CASSETTE` from the Paper Handling Menu, also set the paper size from the Paper Handling Menu. If custom paper is loaded, set the size of custom paper from the Printing Menu to match the paper loaded in Tray 1. To print custom-size paper, see page [118](#).
 - **Other trays:** Paper size settings are adjusted when paper is properly loaded into the printer. (See the sections on loading paper, starting on page [76](#).)
4. From the software or printer driver, select the desired type and size of paper.



Note

The type and size settings can also be configured from HP JetAdmin for networked printers. See the printer software help.

To print by type and size, it might be necessary to unload or close Tray 1, or set `TRAY 1 MODE=CASSETTE` from the Paper Handling Menu in the printer's control panel. For more information, see page [283](#).

Settings in the printer driver and software application override control panel settings. (Software application settings override printer driver settings.)

4 *Printer Maintenance*

Overview

This chapter explains basic printer maintenance.

- [Managing the Toner Cartridge](#)
- [Cleaning the Printer](#)

Note

To ensure optimum print quality, the printer will prompt you perform printer maintenance every 350,000 pages. When the PERFORM PRINTER MAINTENANCE message appears on the control panel, you will need to purchase a Printer Maintenance Kit and install the new parts. Then remove the message by turning the service message off in the configuration menu. For ordering information, see page [36](#).

The Printer Maintenance Kit is a consumable and is not covered under warranty.



Managing the Toner Cartridge



HP Policy on Non-HP Toner Cartridges

Hewlett-Packard Company cannot recommend use of non-HP toner cartridges, either new or remanufactured. Because they are not HP products, HP cannot influence their design or control their quality.



To install a new HP toner cartridge and recycle the used cartridge, follow the instructions included in the toner cartridge box.



Toner Cartridge Storage

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



CAUTION

To prevent damage to the toner cartridge, do not expose it to light for more than a few minutes.



Toner Cartridge Life Expectancy

The life of the toner cartridge depends on the amount of toner that print jobs require. When printing text at 5% coverage, an HP toner cartridge lasts an average of 15,000 pages. (A typical business letter is about 5% coverage.) This assumes that print density is set to 3 and EconoMode is off. (These are the default settings.)



Continue Printing When Toner is Low

- When toner is low, the printer's control panel displays the TONER LOW message.
- If the TONER LOW message displays, but the printer continues printing, TONER LOW is set to CONTINUE (the default setting).

If the printer stops printing when low toner is detected, TONER LOW is set to STOP. To resume printing, press **Go**.

The printer will continue to display TONER LOW until you replace the toner cartridge.

Select TONER LOW=CONTINUE or TONER LOW=STOP from the Configuration Menu in the control panel (page [295](#)).

Redistributing the Toner

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

Continued on next page.



Redistributing the Toner (continued)

- 1 Open the top cover.
- 2 Remove the toner cartridge from the printer.

WARNING!

Avoid reaching too far into the printer. The adjacent fusing area might be hot!

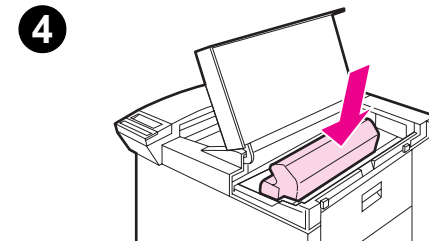
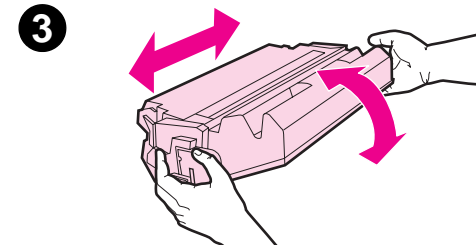
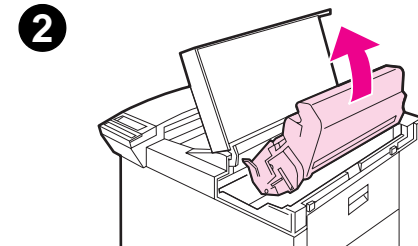
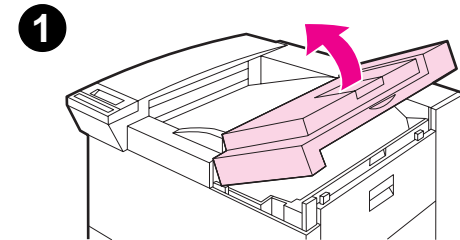
- 3 Rotate the toner cartridge and gently shake it from side to side to redistribute the toner.

Note

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

- 4 Reinsert the toner cartridge into the printer and close the top cover.

If the print remains light, install a new toner cartridge. (Follow the instructions provided with the new toner cartridge.)



Cleaning the Printer

To maintain print quality, clean the printer thoroughly:

- Every time you change the toner cartridge.
- Whenever print quality problems occur.

Clean the outside of the printer with a lightly water-dampened cloth. Clean the inside with only a dry, lint-free cloth. Observe all warnings and cautions with the cleaning tasks on the following page.

CAUTION

To avoid permanent damage to the toner cartridge, do not use ammonia-based cleaners on or around your printer.

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- 1 Before you begin these steps, turn the printer off and unplug all cables.

WARNING!

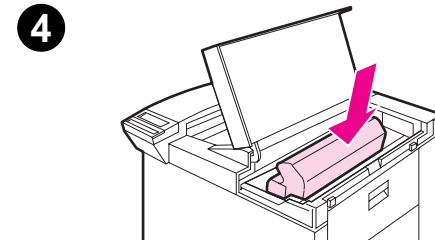
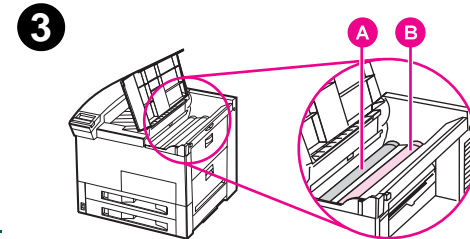
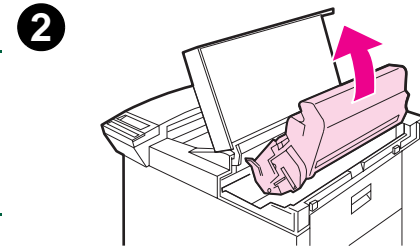
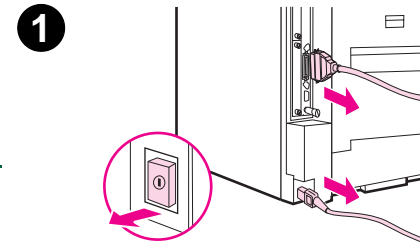
Avoid touching the adjacent fusing area in the left door. It may be HOT.

- 2 Open the top cover of the printer and remove the toner cartridge.

CAUTION

Do not touch the transfer roller (A). Skin oils on the roller can reduce print quality. If toner gets on your clothes, wipe it off with a dry cloth and wash your clothes in cold water. Hot water sets toner into fabric.

- 3 With a dry lint-free cloth, wipe any residue from the paper path area, the registration roller (B), and the toner cartridge cavity.
- 4 Replace the toner cartridge, close the printer, reconnect all cables, and turn the printer on.



Using the Printer Cleaning Page

If toner specks appear on the front or back side of your print jobs, follow the procedure below.

From the printer's control panel, do the following:

1. Press **MENU** repeatedly until PRINT QUALITY MENU appears.
2. Press **ITEM** repeatedly until CREATE CLEANING PAGE appears.
3. Press **SELECT** to create the cleaning page.
4. Follow the instructions on the cleaning page to complete the cleaning process.

Note

In order for the cleaning page to work properly, print the page on copier grade paper (not bond or rough paper).

You might need to print a cleaning page more than once. When toner has been cleaned from inside the printer, shiny black spots will appear on the page's black strip. If white spots appear on the black strip, print a cleaning page again.

To ensure good print quality with certain types of paper, use the cleaning page every time the toner cartridge is replaced. If the cleaning page is frequently needed, try a different type of paper.

