





service and support manual

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product overview



Product price:

• US\$ 799 (Base), US\$ 1099 (SN), US\$ 1299 (DN)

Product launch date:

• November 2002

Product positioning:

• Fast, cost-effective, full-featured color printer for two- to eight-person business workteams

Product features:

- Cost-effective color added at less than 7.9 cents per page with 20% coverage
- High duty cycle for print volumes up to 30,000 pages per month
- Separate color ink cartridges for economical ink supplies management via replacement of one color at a time
- Laser-like speeds for color printing (14 ppm draft color/8 ppm normal color) with uncompromised print quality
- Standard dual 160 MHz and 400MHz processors handles and 88 MB of RAM (expandable to 344 MB) to quickly print large complex jobs
- Photo-quality printing (using hp photoREt III color technology) with up to 2400 by 1200 dpi with automatic color calibration
- Printer drivers for hp PCL6, hp PCL 5c, and printer emulation driver for PostScript® 3™

- Connect via USB or Parallel port or to PC or Mac® networks via hp jetdirect 615n EIO print server card (optional on the 3000)
- Embedded Web server (EWS, optional on the 3000) for proactive maintenance and supplies management
- 700 sheet paper tray and auto duplex unit (both standard on the 3000dtn)

key dates

The following are the key dates related to the printer:

- Announcement Date: September 23, 2002
- Blind CPL: October 1, 2002
- Live CPL: November 1, 2002
- DC Ship Date (FCS): November 18, 2002
- Channel availability: December 2, 2002

key selling points

The hp business inkjet printer 3000/3000n/3000dtn features:



- High print speeds (14/8ppm laser equivalent speeds; 21/18 ppm in fast mode)
- Embedded Web Server E-support (needs EIO JetDirect network card)
- Superior network performance and manageability by using HP PCL5C/6 and PostScript 3 emulation
- Up to 30,000 pages/month duty cycle
- Black, Cyan, Magenta, and Yellow (KCMY) high-capacity individual ink cartridges
- Wide range of media size: 3.5 x 5.5 inches to 8.5 x 14 inches
- 88 MB RAM, upgradeable to 344 MB
- High-capacity trays and manual feeds:
- Main tray supports a maximum of 300 sheets
- Tray 1 (rear manual feed unit) allows single-sheet manual feeds
- Optional second paper tray supports a maximum of 700 sheets (standard on the 3000dtn)
- Optional multipurpose tray (in Tray 1 slot) supports a maximum of 100 sheets
- Autoduplexer for two-sided printing (standard on the 3000dtn)
- Output tray holds a maximum of 300 sheets

unique product features

- Laser-like speeds for color printing:
- 14/8 ppm
- HP PhotoRet III print quality
- Low Total Cost of Ownership (TCO) at approximately 1.9 US cents mono cpp and 7.9 US cents color cpp
- Superior network performance with support for:
- HP PCL5C/6 and PostScript 3 emulation
- HP enhanced input/output (EIO) JetDirect (external)
- Built-in Universal Serial Bus (USB) and parallel ports
- Embedded Web server (EWS)
- LaserJet compatible printer drivers and installer
- Remote printer management using an embedded web server with:
- Remote printer & supplies status
- Remote printer configuration
- Remote printer diagnostic/troubleshooting
- Email alerts
- Link to hp instant support
- Usage information, such as amount of ink and number of pages
- Event log
- Ink supplies ordering
- hp business store
- Support for accessories and consumables:
- Individual KCMY, high-capacity ink cartridges
- Optional auto-duplex unit for double-sided printing
- Optional 700 sheet tray

product positioning statement





hp business inkjet 3000 series

fast, cost effective, full featured color printer for workgroups

breakthrough speeds

up to 14ppm monochrome and 8ppm color in Normal mode; up to 21ppm monochrome and 18ppm color in Fast mode.

built for business

high-capacity ink cartridges and lowest cost of ownership with robust duty cycles of up to 30,000 pages per month.

intelligent networking

connect to the network as easily and reliably as any hp LaserJet printer with PCL 5,6 & PS 3 as a standard.

www.hp.com

hp's fast, cost-effective, full-featured, high-capacity printer for small workteams of 2-8 users

product placement

hp business inkjet 3000	hp business inkjet 3000n	hp business inkjet 3000dtn
Part number: C8116a	Part number: C8117a	Part number: C8118a
Street price: \$ 799	Street price : \$ 1,099	Street price : \$ 1,299
Live CPL: November 1,	Live CPL: November 1,	Live CPL: November 1, 2002
2002	2002	
Placement: worldwide	Placement: worldwide	Placement: worldwide

comparison between hp business inkjet printer 3000, 3000n, 3000dtn

target customer

customer segment	customer profile	key requirements
	usage Comfortable	Print professional-looking color documents and presentations Print high volume Higher-than-average-speed Low total cost of ownership
5		Print or publish professional documents High-speed printing Low TCO

customer profile and requirements

benefits

The hp business inkjet printer3000/3000n/3000dtn offers the following benefits to customers:

- fast color with best-in-class, laser-like performance
- high-performance 8 ppm color printing in normal mode
- low total cost of ownership (TCO)
- supplies status and alerts through hp embedded web server
- printer-sharing allows workteam to enjoy high-quality, high-speed printing for less
- innovative network printing is fast, reliable, easy to install and use, and includes laser compatibility

localization

Localization language options are available for the following items:

- Driver resources
- LCD control panel
- Online Help
- Readme text
- Getting Started Guide
- User's Guide

item	local languages in which the item is available	item availability in English only
Driver Resources for common installer- PCL5, PCL6 and PS for Windows	UFG, K, ISp, BNF, SwDa, DuPCR	all the other languages (see notes following table)
Driver Resources for PS for Mac	UFG, K, ISp	BNF, SwDa, DuPCR other languages
LCD control panel	UFG, ISp, BNF, SwDa, DuPCR	K other languages
Online help	UFG, K, ISp, BNF, SwDa, DuPCR	other languages
Readme file for Windows	UFG, K, ISp, BNF, SwDa, DuPCR	other languages
Readme file for Macintosh	UFG, K, ISp	BNF, SwDa, DuPCR other languages
Getting Started Guide	UFG, K, ISp, BNF, SwDa, DuPCR other languages	
User's Guide	UFG, K, ISp, BNF, SwDa, DuPCR	other languages

localization options

The acronyms listed in the table represent the following languages:

- UFG English, French, and German
- K Korean
- ISp Italian and Spanish (Generic)
- BNF Brazil Portuguese, Norwegian, and Finnish
- SwDa Swedish and Danish
- DuPCR Dutch, Polish, Czech, and Russian
- Other languages Arabic, Greek, Hebrew, Hungarian, Turkish, Croatian, Romanian, Slovakian, and Slovenian

the printers

3000	3000n	3000dtn
TAX I HART OF TAX	THE MAN PERSON	CONTRACTOR OF
JEW-		
	noos inkist printer 2000	

hp business inkjet printer 3000 series models			
hp business inkjet hp business inkjet h		hp business inkjet	
printer 3000	printer 3000n	printer 3000dtn	
Width: 592 mm (23.3	Width: 592 mm (23.3	Width: 592 mm (23.3	
inches)	inches)	inches)	
Height: 355 mm (14	Height: 355 mm (14	Height: 462 mm (18 inches)	
inches)	inches)		
Depth: 640 mm (25.2	Depth: 640 mm (25.2	Depth: 640 mm (25.2	
inches)	inches)	inches)	
Weight: 27.6 kg (60.8 lb)	Weight: 27.6 kg (60.8 lb)	Weight: 35.8 kg (78.9 lb)	
	• -		

printer comparison

top of the printer



top of the printer

The components located at the top of the printer are:

1. Ink cartridge cover - Provides access to ink cartridges.

2. Printhead cover - Provides access to printheads.

3. Hook - Connects to the catch and must be engaged for the printer to operate.

4. Printhead latch - Provides access for installing or removing printheads from their colorcoded sockets.

To open the printhead latch, you must turn on the printer.

Note

- 5. Printheads Like "writing pens" that apply the ink.
- 6. Catch Metal bar that secures the hook and engages the printhead latch.
- 7. Ink cartridges Reservoirs that hold the ink.

front of the printer



front of the printer

The components located at the front of the printer are:

- 1. LCD control panel Configure settings and view status messages.
- 2. Top cover Access the printing area.
- 3. Printhead cover Access the printheads.
- 4. Ink cartridge cover Access the ink cartridges.
- 5. Simplex or auto-duplex unit For single-sided or double-sided printing.
- 6. Output bin Collects the printed pages.
- 7. Tray 2 Holds up to 300 sheets of paper.
- 8. Media level indicators View the media levels.
- 9. Tray 3 Holds as many as 700 sheets of paper (optional on the 3000 and 3000n).
- 10. Tray 3 base Supports tray 3 and the printer.

rear of the printer



rear of the printer

The components located at the rear of the printer are:

1. Tray 1 - Must be removed to install the optional multipurpose tray.

2. EIO slots - Install an HP JetDirect print server in this slot (HP JetDirect comes by default with the hp business inkjet printers 3000n and 3000dtn).

- 3. DIMM cover Install extra memory here.
- 4. USB port Connect the USB cable to this port.
- 5. Parallel port Connect the parallel cable to this port.
- 6. Power input Attach the power cord.

LCD control panel



LCD control panel

From the LCD control panel you can:

- Configure printer settings.
- View printer status.
- View printer messages.
- Diagnose printer problems.

The control panel contains the following:

- **1. Power** Turns the printer off and on.
- 2. Help Provides additional information about printer messages or menus.
- 3. LCD display Shows status and error messages, as well as ink cartridge levels.
- 4. Back Navigates backward one level in the menus.

5. Up and down arrows Navigates menu items and increases or decreases numerical values.

6. Select Selects highlighted menu items. This button also restarts printing after continuable errors.

7. Cancel job Cancels the current print job. The time it takes to cancel depends on the size of the print job. Press this button only once to cancel the current print job.

8. Pause/resume Pauses or resumes a print job; also exits menus and exits the LCD control panel help.

9. Ready light On indicates the printer is online and ready to accept print jobs. On may also indicate that the printer has data it has finished processing and is waiting to receive more data. Off indicates the printer is either offline, turned off, or has no data to process. Flashing indicates the printer is receiving data, or if the LCD displays the message PLEASE WAIT, the printer is in the process of stopping a print job to go offline.

10. Attention light On indicates a critical error has occurred and the printer requires attention (a critical-error message is usually also displayed). Off indicates no conditions exist that require attention (a printer-status message is usually also displayed). Flashing slowly indicates the printer needs attention, typically because the paper tray is empty or the output bin is full (a warning message is usually also displayed). Flashing quickly indicates the printer has encountered an error that requires a person's attention, such as an open door or paper jam (an error message is usually also displayed).

Note Additional menu items can appear in the LCD control panel depending on the hardware modules installed in the printer.



The printer can automatically print on both sides of paper with the optional auto-duplex unit (standard on the 3000dtn). It can be purchased separately for the hp business inkjet printer 3000/3000n. This unit is installed in the front of the printer. When printing on both sides of

paper, the printer might require additional memory.

specifications

Please refer to the datasheet for detailed information.

competitive positioning

specification summary	HP Business Inkjet 3000	Lexmark C720	Epson Aculaser C1000	QMS 2200 Desklaser
engine	HP	Hitachi	Minolta QMS	Minolta QMS
lechnology	4-color Thermal Inkjet MIDS	4-pass color aser	4-pass color lase	r4-pass color laser
econofast speed black/ color	21/18 ppm	N/A	20 ppm	N/A
laser equivalent speed black/color	14/8 ppm	24/6 ppm	5 ppm	20/5 ppm
	600 x 600 dpi	600 x 600 dpi	600 x 600 dpi	1200 dpi
	2400 x 1200 dpi on photopaper	2400 dpi	2400 dpi using Epson RIT	1200 dpi
pdl compatibility- standard	PCL5/6 & PS3 emulation	PCL6	ESC/P (host based)	GDI (host- based)
pdl compatibility- OS		Win, DOS, Mac OS 8.1, Novell, Linux, IBM OS/2		Win only
memory standard	88 MB	32 MB	16 MB	32 MB
memory maximum	344 MB	386 MB	256 MB	96 MB
input	100	optional 250+500	standard 500 + 150, optional 500	standard 500+150, optional 500
paper capacity- output	standard: 300	standard: 250	standard: 500	standard: 500
	2.2 cents per page US	1.7 cents per page US	2.0 UK pence per page (3.0 cents/page US)	2.6 cents per page US
cost per page: 20% CMYK	8.4 cents per page US	9.5 cents per page US	8.8 UK pence per page (13.4 cents/page US)	12.2 cents per page US
embedded web server (ews)	yes, for printer diagnostics; also, Chai VM e-services	yes, MarkVision Professional web configuration tool	not available	yes, Crown View Web based printer management software

auto- duplexer/hdd	available as options	duplexer option alone available	•	only auto- duplexer available as option
network connectivity	USB / Parallel / 2 EIO slots ; optional Ethernet, 802.11 via EIO	optional USB,	Parallel/USB; optional Ethernet 10/100Base-TX	Parallel / Ethernet 10 /
duty cycle	30,000 pages per month		35,000 pages per month	17,500 pages per month (35,000 (50:50 color:mono))
warranty	1 year limited	1 year LexOnsite	1 year on-site	1 year limited
street price	with network card \$1299 US with network	US/\$2069 US with net work card \$3539 US with network	US), €1400 with network card	\$1299 US with

specification comparisons with competitors' current products

hardware accessories

accessories	part number
100-sheet multipurpose tray	C8228A
700-sheet tray (3000/3000n only)	C8226A
Auto-duplex unit (3000/3000n only)	C8227A
HP 4 MB flash DIMM	C4287A
HP 64 MB SDRAM DIMM	C7846A
HP 128MB SDRAM DIMM	C9121A
HP Font DIMM, Korean	D4838A
HP EIO hard disk drive (10 GB)	6054B
HP IEEE-1284 A-B parallel cable, 2 m (6.6 ft)	C2950A
HP IEEE-1284 A-B parallel cable, 3 m (9.8 ft)	C2951A
HP A-B USB cable, 2 m (6.6 ft)	C6518A
networking accessories	www.hp.com/go/networkprinting
HP Jetdirect 615n (EIO) Internal Print Server	1J6057A
Fast Ethernet (10/100Base-TX)	
HP Jetdirect 680n (EIO) Internal Print Server	16058A
Wireless 802.11b	
HP Jetdirect 610n (EIO) Internal Print Server	4167A
Token Ring	
HP Jetdirect 600n (EIO) Internal Print Server	I3111A
Ethernet (10Base-T, 10Base2) and LocalTalk	
HP Jetdirect 600n (EIO) Internal Print Server	I3110A
Ethernet (10Base-T)	
HP Jetdirect External Print Server 170x (10Base-	13258B
HP Jetdirect External Print Server 175x	16035A
HP Jetdirect External Print Server 300x	13263A
(10/100Base-TX, 1-port)	
HP Jetdirect External Print Server 310x	6038A

hardware accessories for hp business inkjet printer 3000 series
user replaceable components

part number	description	relative replacement rate
68116-67001	Door-Main Access SVC	7%
68116-67009	Assy - Manual Feed Unit SVC	3%
68116-67010	Assy - O/P Tray SVC	10%
68116-67011	Assy - Tray 2 SVC	10%
68116-67012	Assy - Door Access SVC	10%
68116-67019	Assy-Pick Roller SVC	3%
68116-67020	Assy-Separation Roller SVC	3%
68116-67023	Snap-On Foot SVC	1%
68116-67030	Cover - DIMM SVC	5%
68116-67062	Assy - Simplexer SVC	6%
68116-67063	Assy - Duplexer SVC	3%
68116-67071	Assy - Tray 3 SVC	3%
68116-67072	MP Tray 2 SVC	1%

user replaceable components

compatible hp media types

group	media
Everyday paper	HP multipurpose paper, HP printing paper, HP office paper, HP pffice recycled paper
Business communications paper	HP premium inkjet paper (not supported by the auto-duplex unit), HP professional brochure and flyer paper, HP premium inkjet heavyweight paper
Presentation paper	HP premium inkjet transperency film, HP premium plus inkjet transperency film,
Design paper	HP design heavyweight paper, HP design glossy paper, HP design glossy paper
Photo paper	HP premium plus photo paper - glossy, HP premium plus photo paper - matte, HP colorfast photo paper, HP premium photo paper, HP everyday photo paper - semi-gloss, HP everyday photo paper - matte, HP photo paper, HP photo quality inkjet paper

compatible hp media types

upgrades

paper handling upgrades

Upgrade the printer by obtaining one of the following paper handling upgrades:

- Purchase the auto duplex unit (part number C8227A) and tray 3, 700-sheet paper feeder (part number C8226A), to upgrade the hp business inkjet printers 3000/3000n.
- Purchase the multipurpose tray (part number C8228A) to upgrade hp business inkjet printers 3000/3000n/3000dtn.

networking upgrades

Purchase one of the following HP Jetdirect print servers to upgrade the hp business inkjet printer 3000:

- HP Jetdirect 615n fast Ethernet (10/100 Base-TX) internal print server (part number J6057A)
- HP Jetdirect 680n 802.11b wireless internal print server (part number J6058A)
- HP Jetdirect 610n token ring internal print server (part number J4167A)
- HP Jetdirect 600n Ethernet (10 Base-T, 10 Base-2) internal print server (part number J3111A)
- HP Jetdirect 600n Ethernet (10 Base-T) internal print server (part number J3110A)
- HP Jetdirect connectivity card for USB, serial, and LocalTalk connections (part number J4135A)

Visit http://www.hp.com/support/ businessinkjet3000.

firmware upgrades

The firmware will be 100% flashable throughout the life of the product.

software upgrades

Upgrade the printer software by using the following URL:

http://www.hp.com/support/ businessinkjet3000

memory upgrades

Upgrade the printer memory by purchasing the following accessories:

- HP 4 MB flash DIMM (part number C4287A)
- HP 64 MB SDRAM DIMM (part number C7846A)
- HP 128 MB SDRAM DIMM (part number C9121A)
- Localized font DIMM, Korean (part number D4838A)
- HP EIO hard disk drive (10 GB) (part number J6054B)

consumable part numbers

part no.	name	ink capacity	estimated mean life		street price (US\$)
	HP No. 12 Black Printhead		45,000	82.99	70.99
C5024A	HP No. 12 Cyan Printhead	N.A.	105,000	82.99	70.99
	HP No. 12 Magenta Printhead	N.A.	105,000	82.99	70.99
	HP No. 12 Yellow Printhead	N.A.	105,000	82.99	70.99

printhead part numbers, capacities, mean life, and prices

part no.	name	ink capacity	list price (US\$) tentative	street price (US\$)	pages out
C4844A	HP No. 10 Black ink cartridge	69 mL	38.99	33.99	1750
C4804A	HP No. 12 Cyan ink cartridge	55 mL	77.99	65.99	3300
C4805A	HP No. 12 Magenta ink cartridge	55 mL	77.99	65.99	3300
C4806A	HP No. 12 Yellow ink cartridge	55 mL	77.99	65.99	3300

ink cartridge part numbers, capacities, and prices

technology update

Thermal Inkjet Technology

Thermal Inkjet Technology is based on HP's disposable ink cartridges and printheads. Each printhead contains a small reservoir known as the firing chamber, filled with a tiny measure of ink. This ink is heated with a thin-film resistor layered above the firing chamber. As the ink heats up, it expands to form a bubble. The bubble expands until it bursts, at which point the ink is forced through the nozzle located below the firing chamber and out onto the paper. This process is repeated up to 12,000 times per second, and creates residual heat in the resistor. A layer of silicon is placed above the resistor to cool it by transferring the residual heat awa

ColorSmart II

ColorSmart II is used by the PCL5 and PostScript drivers. This technology optimizes the color and halftoning for each element in a document (such as text, graphics, and photographs), providing consistent color treatment for everything on a page.

ColorSmart II uses a smooth halftone for photographs and a detail halftone for text, raster graphics, and vector graphics. When transparencies are printed, HP ColorSmart II chooses specialized colors to provide the best projection quality.

ColorSmart II is also the most reliable setting for PANTONE color reproduction.

ColorSmart III

ColorSmart III enables the printer driver to scan the contents (text, graphics, and images) of pages to generate optimal settings for each document printed. ColorSmart III further extends ColorSmart technology with new image-enhancement tools:

- HP SmartFocus—A new algorithm that improves image clarity in high-resolution files, as well as continues optimization for low-resolution images from the Internet or multimedia sources. Available with HPA.
- HP Automatic Contrast Enhancement (ACE)—Brightens colors and sharpens details in images captured under poor lighting conditions. Available with HPA.
- sRGB (standard Red, Green, Blue) calibration—An industry peripheral color standard developed jointly by HP and Microsoft that improves color matching between the source image, monitor, and printed page.
- Intel MMX/SIMD technology—Allows the driver to process media-rich data in parallel for faster processing of color and image graphics.
- CIECAM97s-Improves color maps for more accurate skin tones and richer hues.
- Object based color mapping enables optimum color quality. Available in PCL5.
- Color control settings enable manual adjustment in saturation, brightness, and tone. Available in HPA.

PhotoREt III

Photo Resolution Enhancement technology enables business inkjet printers to produce photoquality color images. PhotoREt III's Color Layering technology combines small ink-dropvolume ink cartridges, vibrant, fade-resistant color inks, new halftoning algorithms, and specially developed HP Premium Plus Photo paper to deliver outstanding image quality and performance. The increased capacity of HP business inkjet 2230/2280 printers place up to 20 drops of ink in a single dot that creates finer color control and produces five times the number of colors produced by PhotoREt II printers. PhotoREt III enables faster color print speeds without sacrificing speed for print qualit

UnderPrinting

UnderPrinting prints a small amount of color ink (cyan or magenta) underneath the black ink. The pigment-based black ink penetrates the media at a slower rate than the dye-based color inks. UnderPrinting increases the penetration rate of the black ink.

The new printhead arrangement of the HP business inkjet 2230/2280 allows color ink to be printed on the page before the black ink in both carriage directions. Since black can now be printed in both directions with UnderPrinting, faster throughput can be achieved. UnderPrinting also provides significantly improved smudgefastness, dry time, K Optical Density, and print quality.

value added services

embedded Web server

The hp business inkjet printer is equipped with an embedded Web server (optional for the 3000) that is actually a remote management tool. The embedded Web server can be used from a standard Web browser or from the Toolbox (Windows only).

Use a standard Web browser and EWS to do the following:

- View the usage and event log
- Send email alerts and notifications
- Configure printer, events, and security information
- Obtain status information
- Perform printer diagnostics
- Manage printers remotely

hp instant support web site

The hp instant support Web site hosts a set of dynamic Web resources for printers. These resources help in tracking the status and usage of the printer. In addition, the hp instant support Web site helps in managing the printer and planning the purchase of consumables.

Access the hp instant support Web site to view the following information:

- Personalized printer information
- Printer usage pattern
- Error alerts
- Recommended actions to resolve errors
- Proactive announcement on release of firmware and drivers
- Direct access to printer reference materials, tips, and service options

myPrintMileage

myPrintMileage is a Web-based tool that keeps track of your printer usage information to help you plan the purchase of supplies more effectively.

myPrintMileage displays the following:

- The amount of ink you have used
- Whether you use more black or color ink
- The average amount of media you use per month for each media type
- The number of pages printed
- The estimated number of pages you can print with the amount of ink remaining

JetCAPS

JetCAPS is a set of products and solutions that can be mixed, matched, and customized to complement hp printers.

Use JetCAPS offers the following benefits:

- Document quality standards
- Huge savings/print on demand
- Printer consolidation

• Proven technical feasibility

hp mobile printing drivers

The hp mobile printing driver simplifies access to networked printers.

Use the hp mobile printing driver to do the following:

- Print from a conference room
- Print at a satellite office
- Print remotely from a home office

education and training

documentation/training	information	purpose
release notes	Includes installation and the latest printer information. Includes last minute changes and software troubleshooting tips.	
reference guide	Procedures for setting up, maintaining, and troubleshooting the printer.	To set up the printer.
setup poster	Illustrated setup information. It is available on the Starter CD.	To set up the printer.
Printer Driver Online Help (Windows only)	Procedures for using the printer.	To use the printer.
HP Jetdirect Print Server Administrator's Guide	Procedures for configuring and troubleshooting the HP JetDirect print server.	To set up and troubleshoot the HP JetDirect print server.
Embedded Web Server	Provides configuration, status, and diagnostic information about the printer.	
http://www.hp.com/support/businessinkjet3000	Provides the latest printer software, product information and support information available for the printer.	
HP Business Inkjet 3000 NPI training	technicians, call centers,	To use the printer and troubleshoot the printer problems.

education and training available for the printer

service and support

HP offers various support services to troubleshoot and diagnose printer problems and provides instructions for service and repair. HP also provides documentation and online and telephone support for troubleshooting.

support

- Express Exchange or unit exchange by courier assist
- Support Packs available
- One year

online support

HP provides several resources on the Web for troubleshooting. Access the URL http://www.hp.com/go/support for help regarding the following parameters:

- Setting up and using the printer
- Downloading printer drivers
- Solving a problem
- Ordering a product

Customers can also find product information on the www.hp.com Web site.

telephone support

- Available worldwide
- One year

Representatives at Customer Care Center answer questions regarding the setup, configuration, installation, and operation of the printer. They also help troubleshoot and diagnose printer problems and provide instructions for service and repair. Before calling a Customer Care Center representative, the customer needs to provide information regarding:

- Results of a configuration page
- Brand and model of the computer
- Operating system of the computer
- Printer driver installed

regional repair strategy

The regional repair strategy includes:

- North America Express Exchange
- Europe next day unit exchange by courier assist
- Asia Pacific & Latin America Exchange, Support Packs

warranty period

duration

hp product	duration of limited warranty
Printer software	l year
Ink cartridges	depletion of original ink or 30 months from date of insertion, whichever comes first
Accessories	l year
Printer peripheral hardware	1 year

repair and warranty information

Hewlett-Packard warrants to the end-user customer that the HP product will be free from defects for the specified duration from the date of purchase. HP's limited warranty covers those defects that arise due to normal use.

limited warranty statement

The limited warranty statement for the printer is in the hp business inkjet printer 3000, 3000n, 3000dtn user guide.

2



Module

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hardware setup requirements

	· · · · ·	
operating system	minimum operating system	recommended operating system
	requirements	requirements
Windows 98	486DX-100 Mhz	Pentium 266 Mhz
	16-MB RAM	32-MB RAM
	4-MB free hard-disk space	4-MB free hard disk space
Windows Me	Pentium 166 Mhz	Pentium 266 Mhz
	32-MB RAM	64-MB RAM
	4-MB free hard disk space	8-MB free hard disk space
Windows NT 4.0	Pentium 100 MHz	Pentium 266 MHz
	32-MB RAM	64-MB RAM
	8-MB free hard disk space	8-MB free hard disk space
Windows 2000	Pentium 166 Mhz	Pentium 266 Mhz
	64-MB RAM	64-MB RAM
	650-MB free hard disk	650-MB free hard disk space
	space	
Windows XP	Pentium 233 MHz	Pentium 300 Mhz
	64-MB RAM	128-MB RAM
	1.5-GB free hard disk space	1.5-GB free hard disk space
Mac OS 8.6 - 9.2.2	64-MB RAM	128-MB RAM
(Classic)	2-MB free hard disk space	2-MB free hard disk space
Mac OS X - 10.2.1	128-MB RAM	256-MB RAM
	10-MB free hard disk space	10-MB free hard disk space

minimum and recommended system requirements

contents of the box

The hp business inkjet printer 3000/3000n/3000dtn includes the following:

Tray 1. (installed in rear of printer)

Tray 2.

Tray 3 and Tray 3 base. (included with the hp business inkjet 3000dtn printer)

JetDirect print server (not shown), which features an embedded web server for printer and supplies management (included with the hp business inkjet 3000n/3000dtn printer)

Auto-duplex unit. (included with the hp business inkjet 3000dtn printer) An optional accessory for the hp business inkjet printer 3000/3000n Base SKU and included with the hp business inkjet printer 3000dtn.

Ink cartridges box. Includes four ink cartridges of the following colors:

- Black No. 10
- Cyan No. 12
- Magenta No. 12
- Yellow No. 12

Printheads box. Includes four printheads of the following colors:

- Black No. 12
- Cyan No. 12
- Magenta No. 12
- Yellow No. 12

Starter CD. Enables you to perform the following activities:

- Install the printer software
- Browse documentation
- Register the product
- Create a custom software installer
- Install the optional software

Power cord. Connects the printer to a power outlet.

Printed documentation. (setup poster, getting started guide, reference guide, regulatory booklet, and HP support flyer)

- Setup poster Provides wordless, illustrated setup information.
- **Reference guide** Provides more detailed, localized setup information.



The steps to unpack the printer are:

Remove the foam packing cushions from the bottom of the printer.

Unpack the printer, and remove the packing tape and shipping foam from the inside of the printer.

Remove the remaining contents of the box, such as the documentation and starter CD.

unpacking the auto-duplex unit

The steps to unpack the auto-duplex unit are:

Unpack the auto-duplex unit.

Remove the packing tape and shipping foam.

overall setup procedure



setup poster - 1



setup poster - 2

setup	steps
procedure	
Unpack the printer and its components	Unpack the printer. Remove the packing tape and shipping foam.
	Two people should lift the printer. Each person should grasp the printer in the front just under the lip below the LCD control panel, and in the rear by the indentation on either side of Tray 1. Alternately, each person can hold on to the bottom of the printer during lifting.
	Warning It is strongly recommended that two people lift or move the printer. The printer is top-heavy and can tip if lifted by only one person. The side of the printer that holds the ink cartridges and printheads is considerably heavier than the other side.
	Warning Do not attempt to move the printer by holding on to Tray 2 in the front or Tray 1 in the back. This can damage the printer and might cause you to lose your grip on the printer.
Connect the power	Connect the power cord to the printer and an alternating
	current power outlet.
	Turn on the printer.
Install ink cartridges	Lift the ink cartridge cover .
	Remove each ink cartridge from its package.
	Align the colored arrows and insert each ink cartridge into its respective color-coded socket.
	Press in each ink cartridge to ensure proper contact.

	· · · ·
Install the printheads	Ensure that the printer is turned on.
	Lift the printhead cover.
	Pull the latch forward and down to release the hook from the metal latch.
	lift and push the latch toward the rear of the printer.
	Remove each printhead from its package and remove the protective tape and blue printhead cover from each printhead. Insert each printhead into its respective color-coded socket. Press in each printhead to ensure proper contact.
	ift the latch forward so that the hook catches the metal latch.
	Push the latch towards the rear of the printer.
	Close the printhead and ink cartridge covers.
	Wait while the printer initializes. When the initialization is complete, several alignment and calibration pages will print.
lustell the minter	Windows
Install the printer software and	
	Installing the printer driver if the USB cable is not connected
connect the interface cable	Installing the printer driver if the USB cable is connected Installing the printer driver by using a parallel port
interface cable	
	Installing the printer driver by using a network connection Macintosh
	nstalling the printer software on Mac OS 8.6 to 9.1 using a USB cable
	nstalling the printer software on Mac OS 8.6 to 9.1 using a network connection
	Installing the printer software on Mac OS X
Install the optional	Install the multipurpose tray in the Tray 1 location in place of
multipurpose tray	the single sheet manual feed unit that came installed with the printer.
Install Tray 3	Position the optional tray 3 base in the location where you
optional on	want to place the printer. Tray 3 is already installed in the
3000/3000n	base.
models)	Align the tray 3 base with the opening in the printer and slide
	the tray and base into the printer until it snaps into place.

Install the optional auto-duplex unit (already installed or 3000dtn model)	Turn off the printer. Grasp the output bin by both sides and pull it straight out of the printer. Do not lift or tilt the output bin while removing it. Set the output bin aside. Grasp the handle under the front of Tray 2. Pull out Tray 2 until it catches. Slightly lift up Tray 2, or move the tray counterclockwise, and pull it completely out of the printer. Set Tray 2 aside. Grasp the handle under the front of the simplex unit. Be careful not to touch the star wheels. Pull the simplex unit straight out of the printer, and set it aside. Keep the simplex unit for future use. Look for the two pink guides inside the printer. Insert the rails of the auto-duplex unit into these guides. Slide the auto-duplex unit into the printer until it locks into place. Insert Tray 2 into the Tray 2 case and push it firmly into the printer until it locks into place. Set the output bin on top of Tray 2. Push the output bin into the printer. Be sure that both sides of the output bin snap into place.
Load paper and configure media sizes and types	Grasp the handle under the front of the tray, and then slowly pull the tray out until it stops. Do not pull the tray completely out of the printer. Push the blue tab on the paper length guide and paper width guides and slide them to their outermost positions. Place up to 300 sheets of paper (up to 34 mm, or 1.2 inches, stacked) into Tray 2, or up to 700 sheets of paper (up to 70 mm or 2.7 inches, stacked) into Tray 3. If printing on transparencies, load a maximum of 50 transparencies into each tray, with the adhesive strip face-up and toward the printer. (arrow side up and pointing into printer if arrows are printed on the adhesive strip.) Push the media as far back into the tray as it will go. Make sure the print-side of the media is facing down. Do not exceed the maximum stack height as indicated on the yellow label inside the tray on the right side. Push the blue tab on the paper length guide and paper width guides and slide them until they fit snugly against the media. Insert the tray into the printer until it closes completely. The printer can automatically detect some media sizes. If this is the case, only one size will appear in the TRAY 2 SIZE and TRAY 3 SIZE options. If the size does not match the media you oaded in the tray, open the tray and make sure the media sits as far in as possible. Adjust the paper width and length guides so they fit snugly against the media stack. Close the tray.

setting the LCD language

Configure the printer to display messages and print configuration pages in the required language.

To configure the LCD control panel language:

Method 1:

Turn off the printer.

Press the **SELECT** button on the LCD control panel and press the **POWER** button.

Method 2 (recommended):

Press the DOWN ARROW BUTTON to highlight Configure Device

Press **SELECT** to select Configure Device.

Press the **DOWN ARROW BUTTON** to highlight System Setup .

Press **SELECT** to select System Setup.

Press the **DOWN ARROW BUTTON** to highlight Language

Press **SELECT** to select Language.

Press the **DOWN or UP ARROW BUTTON** to highlight your language selection.

Press **SELECT** to confirm the language selection.

Press **PAUSE/RESUME** to return the printer to the ready state.

installing trays

tray 3 installation

If your printer was shipped with Tray 3 or you purchased Tray 3 as an optional accessory, Position Tray 3 in the location where you want to place the printer.

Gently lower the printer onto the Tray 3 base.

Warning It is strongly recommended that two people lift or move the printer. The printer is top-heavy and can tip if lifted by only one person. The side of the printer that holds the ink cartridges and printheads is considerably heavier than the other side.

Warning Do not attempt to move the printer by holding on to Tray 2 in the front or Tray 1 in the back. This can damage the printer and might cause you to lose your grip on the printer.

multipurpose tray installation

The printer comes with a single sheet manual feed unit in the Tray 1 location. You can purchase a multipurpose tray as an optional accessory, which is installed in place of the single sheet manual feed unit in the Tray 1 location.

The multipurpose tray is designed to handle a variety of media types and sizes, including heavy paper and transparencies. The multipurpose tray is recommended if you print often on heavy paper or other special media that requires a straight-through paper path because it can hold up to 100 sheets of media.

Note To install the multipurpose tray, you must first remove Tray 1 from the printer. The multipurpose tray replaces and functions as tray 1.

1. Grasp the handle under the single sheet manual feed unit. Firmly pull to remove the manual feed unit from the printer. Keep this item for future use.

2. Slide the multipurpose tray into the Tray 1 opening at the back of the printer until it snaps into place.



installing the auto-duplex unit

Use the auto-duplex unit to print on both sides of the paper. The auto-duplex unit is included with the hp business inkjet printer 3000dtn. It can be purchased separately for the hp business inkjet printer 3000/3000n. When printing on both sides of paper, the printer might require additional memory.

The steps to install the auto-duplex unit in the printer are:

Turn off the printer.

Grasp the output bin by both sides and pull it straight out of the printer. Do not lift or tilt the output bin while removing it. Set the output bin aside.

Grasp the handle under the front of Tray 2. Pull out Tray 2 until it catches. Slightly lift up Tray 2, or move the tray counterclockwise, and pull it completely out of the printer. Set Tray 2 aside.

Grasp the handle under the front of the simplex unit. Be careful not to touch the star wheels. Pull the simplex unit straight out of the printer, and set it aside. Keep the simplex unit for future use.

Look for the two pink guides inside the printer. Insert the rails of the auto-duplex unit into these guides. Slide the auto-duplex unit into the printer until it locks into place.

Insert Tray 2 into the Tray 2 case and push it firmly into the printer until it locks into place.

Set the output bin on top of Tray 2. Push the output bin into the printer. Be sure that both sides of the output bin snap into place.



installing the hp jetdirect EIO print server

The hp business inkjet printer 3000n/3000dtn has a preinstalled HP Jetdirect 615n (EIO) internal print server. If you have purchased an hp business inkjet printer 3000, purchase the internal HP Jetdirect print server separately. The embedded web server for printer and supplies management is included on the HP Jetdirect 615n (EIO) internal print server.

The hp Jetdirect printer server can be used in both client-server and peer-to-peer network configuration.

Note The hp business inkjet printers 3000n and 3000dtn both include the HP JetDirect print server.

Caution The hp Jetdirect EIO print server contains electronic components that can be damaged by static electricity. To prevent the build up of static electricity:

- Maintain contact with a bare sheet metal surface on the printer.
- Wear a grounding wrist strap.
- Handle the print server with caution.
- Avoid touching the electronic components or circuit paths.
- •

Turn off the printer and unplug the power cord.

Choose which slot to use. Both slots work, but slot 2 is recommended, as it makes for a more convenient network cable path.

Unscrew and remove the metal plate at the rear of the printer.

Insert the print server by aligning it with the guide rails in the printer.

Press the print server into the slot.

Tighten each screw until both the screws are secure.

Connect the network cable to the print server.



installing the HP JetDirect EIO print server

installing additional memory

installation

The printer has three dual inline memory module (DIMM) slots for upgrading printer memory. The DIMMs are available in 8/16/32/64/128 MB for a maximum of 320 MB additional memory. Purchase additional memory as an accessory.

Caution Static electricity can damage DIMMs. Ensure that you wear an antistatic wrist strap. Alternatively, touch the surface of the antistatic package of the DIMM and the bare metal on the printer.

Print a Configuration page to note the memory capacity of the printer before adding more memory.

Turn off the printer.

Unplug the power cord and disconnect all cables.

Remove the DIMM cover from the back of the printer as follows:

Insert a flathead screwdriver into the top slot of the cover.

Gently push down on the screwdriver handle and grab the cover with finger and thumb.

While pushing screwdriver handle down, pull out DIMM cover with finger and thumb.

Remove the DIMM from the antistatic package.

On the DIMM slot, push the DIMM locks outward to release the locks.

Insert the DIMM into the slot and press it firmly until it snaps into the slot.

Make sure the DIMM is installed properly. If installed properly, the locks will automatically snap into place as DIMM is pushed in.



inserting the DIMM into the slot

Replace the cover and gently apply pressure until the cover snaps into place. Make sure the steel enclosure of the DIMM cover does not interfere with the DIMM slot locks.

Reattach the cables and power cord. Turn on the printer and test the DIMM.

test

After installing additional printer memory, test the memory installation.

Ensure that READY appears on the LCD control panel when the printer is turned on. If an error message appears, the DIMM may be incorrectly installed .

Print a Configuration page.

Compare the memory section of the Configuration page with the Configuration page printed before the DIMM installation.

If the amount of memory has not increased, perform the following checks:

- The DIMM might not be installed correctly. Reinstall the DIMM.
- The DIMM might be defective. Use a different DIMM.

installing the EIO hard disk drive

installation

The printer has two EIO slots for upgrading the printer. One of these slots may be used for the optional EIO hard disk drive.

Caution Static electricity can damage the hard drive. Ensure that you wear an antistatic wrist strap. Alternatively, touch the surface of the antistatic package of the hard drive and the bare metal on the printer.

Turn off the printer.

Unplug the power cord and disconnect all cables.

Choose which slot to use. Both slots work, but slot 2 is recommended, as it makes for a more convenient network cable path.

Unscrew and remove the metal plate at the rear of the printer.

Align the EIO hard drive with the guide rails in the printer.

Push the EIO hard drive into the slot.

Tighten each screw, alternatively, until both the screws are secure.

Reattach the cables and power cord. Turn on the printer and test the EIO hard drive.


test

After installing the EIO hard drive, test the hard drive installation.

The steps to test the hard drive installation are:

Ensure that READY appears on the LCD control panel when the printer is turned on. If an error message appears, the hard drive might be installed incorrectly.

Print a Configuration page.

Verify that the EIO hard drive is included on the configuration page.

If the hard drive is not shown on the configuration page, perform the following checks:

- The hard drive might not be installed correctly. Reinstall the hard drive.
- The hard drive might be defective. Use a different hard drive.

installing ink cartridges

installation

The steps to install ink cartridges are:

Make sure the printer is turned on.

Lift the ink cartridge cover.

Remove each ink cartridge from its package.

Align the colored arrows and insert each ink cartridge into its respective color-coded socket.

Firmly press each ink cartridge to ensure proper contact.



maintenance

- To reduce water vapor loss: Keep the ink cartridges sealed in the original packaging until ready to use.
- To reduce water vapor loss: Keep the opened ink cartridges in the printer or sealed in a plastic bag.
- Store ink cartridges at room temperature.
- Use a first-in first-out inventory process to avoid having expired ink cartridges in stock.
- Install ink catridges before the Install-By Date to maximize warranty.

terminology

The following dates are used when working with ink cartridges:

- **Manufacture Date** Date on which the product begins its "life." Date on which the product "clock" starts.
- **Shelf Life** Length of time from Manufacture Date to Install-By Date. Maximum shelf life is 24 months.
- **Install-By Date** Date by which a PC/PH/IC should be installed in a printer to receive the full warranty period and optimal performance of the product.
- If cartridge is installed on or before Install-By Date, cartridge will expire after 30 months.
- If cartridge is installed after Install-By Date, cartridge will expire 54 months after manufacture date; ink cartridge will have an In-Printer Life shorter than 30 months.
- Cartridge cannot be used at or beyond 54 months after manufacture date.
- Printheads do not expire, but will likely wear out and fail over time (expected life ~2.5 years per printhead).
- In-Printer Life -- Length of time after the Install-By Date. Maximum In-Printer Life is 30 months from Install-By Date.
- **Warranty Interval** Begins on Manufacture Date and ends on End-of-Warranty Date. Warranty Interval is 6 months.
- **End-of-Warranty Date** -- The latest date that a product is **warranted** to be free from defects in material and workmanship, with no appreciable decrease in performance during the warranty period.
- End-of-Life Date -- A fixed date through which a product is **technically capable** of working with no appreciable decrease in performance.
- **Expiration Date** A printer-generated date calculated at the time a TIJ3.0 ink cartridge is installed.

part number	name	ink capacity
C4844A	HP No. 10 Black ink cartridge	69 mL
C4804A	HP No. 12 Cyan ink cartridge	55 mL
C4805A	HP No. 12 Magenta ink cartridge	55 mL
C4806A	HP No. 12 Yellow ink cartridge	55 mL

part numbers and ink capacities

installing printheads

installation

The steps to install printheads are:

Insert the power cord into the power input slot.

Turn on printer to unlock the carriage and uncap the pens. This must be done before the printheads can be changed or installed for first time.

Lift the printhead cover.

Caution Do not attempt to force open the printhead latch. The printhead carriage will move to the left when the printer is turned on, enabling you to open the latch. Press the select button if it does not move.

To open the latch, lift it from the rear (item 1 in the graphic) and then pull it forward and down to release the hook from the metal catch (item 2 in the graphic).

Lift and push the latch toward the rear of the printer.

Remove each printhead from its package and remove the protective tape and the blue printhead cover from each printhead.

Insert each printhead into its respective color-coded socket.

The order of printheads is different from the order of ink cartridges.

Firmly press each printhead to ensure proper contact.

Pull the latch all the way forward and down, and engage the catch with the hook (item 2 in the graphic). Push the latch towards the back of the printer. You might have to apply some pressure to close the latch.

Close the printhead and ink cartridge covers.

Wait while the printer initializes. When the initialization is complete, an alignment page prints.

Note If no alignment page prints, ensure that there is paper in tray 2.



maintenance

- Keep the printheads sealed in the original packaging until ready to use.
- Keep the printheads that are open in the printer or sealed in a plastic bag separately. Each printhead should have its own bag.
- Store printheads at room temperature.
- Power off the printer by pressing the **POWER** button. Powering off with the **POWER** button ensures the Carriage is at the Service Station position. The Service Station caps the printhead ink nozzles to prevent them from drying.
- Install printhead by Install-By Date to maximize warranty.
- If a printhead is removed and later replaced by one with the same serial number, the printer will only perform pen alignment.

expiration dates

- **Install-by date** : The Install-by date is printed on the retail box for printheads. Install the printheads before the date given in the Install-by date for optimized performance.
- **End-of-Warranty date** : The End-of-Warranty date is printed on the printheads. The End-of-Warranty date specifies the date by which the warranty period for the printheads end.

part numbers

part number	name
C5024A	HP No. 12 Black Printhead
C5023A	HP No. 12 Cyan Printhead
C5025A	HP No. 12 Magenta Printhead
C5026A	HP No. 12 Yellow Printhead

printhead specifications

paper types

media types	tray 1	tray 2	tray 3	manual feed units	auto- duplex unit
Everyday paper (HP Office Paper/HP Office Recycled Paper/HP	Y	Y	Y	Y	Y
Multipurpose Paper/HP Printing					
Paper)					
Business communication paper (HP	Y	Y	Y	Y	Y
Professional Brochure and Flyer Paper					
/HP Premium Inkjet Paper (not					
supported by the auto-duplex unit)/HP					
Premium Inkjet Heavyweight Paper)					
Presentation paper (HP Premium Inkjet	Y	Y	Y	Y	Ν
Transparency Film/HP Premium Plus					
Inkjet Transparency Film)					
Photo paper (HP Premium Plus Photo	Y	Y	Y	Y	Ν
Paper/HP Premium Photo Paper/HP					
Photo Paper/HP Colorfast Photo					
Paper/HP Everyday Photo Paper*/HP					
Photo Quality Inkjet Paper*)					

paper types supported by hp business inkjet printer 3000 series

Caution Some media, such as envelopes and cards, can be used with only Tray 1 or the optional multipurpose tray. Using this media in Tray 3 or the auto-duplex unit can cause jams and might damage the printer and the auto-duplex unit.

paper sizes, weights, and capaci	ities
----------------------------------	-------

tray or bin	size or type of	weight	capacity
T	paper	(0105 / 2	
Tray	Paper (89 by 140 mm	-	Single sheet (manual
1/multipurpose	(3.5 by 5.5 inches) to	(16-28 lb	feed) or up to 100
tray/manual feed	216 by 356 mm (8.5 by	bond)	sheets (multipurpose
unit	14 inches)		tray)
	U.S. Letter		
	U.S. Legal		
	U.S. Executive		
	JIS Executive		
	A4		
	JIS B5		
	ISO B4		
	Custom sizes larger than		
	Letter and smaller than		
	Legal		
	Transparencies (same	N.A.	
	sizes as paper)		
	Envelopes (98 by 191	75 to 90	
	mm (3.9 by 7.5 inches) to	g/m ²	
	162 by 229 mm (6.4 by	_	
	9 inches)		
	Cards (89 by 140 mm	110-199	
	(3.5 by 5.5 inches) to	g/m² (20-24	
	127 by 203 mm (5 by 8	b envelope)	
	inches)	. ,	
	Photo paper (same sizes	110 to 199	
	as paper)	g/m² (29-53	
		lb index)	

Tray 2	Paper (216 x 259 mm (8.5 by 11	60 to	Up to 300 sheets (Tray 2)
and Tray	inches) to 216 by 356 mm (8.5 by	105	or 700 sheets (Tray 3) of
3	14 inches)	g/m²	plain paper
	U.S. Letter		
	U.S. Legal		
	U.S. Executive		
	IIS Executive		
	A4		
	JIS B5		
	Custom sizes larger than Letter and		
	smaller than Legal		
	Transparencies (same sizes as paper)	N.A.	Up to 50 sheets
Auto-	Paper (all sizes between B5 and	60 to	N.A.
duplex	Legal)	105	
unit		g/m²	

guidelines for loading paper

The guidelines for loading paper are:

- The default size for all trays is 216 by 279 mm (8.5 by 11 inches) or A4.
- For Tray 2 and Tray 3, insert media with side for printing face-down with the short edge of the paper facing the rear of the printer. To print horizontally (landscape orientation), select landscape.
- When loading Tray 1, position the media with side for printing face-up with the left edge of the media against the left edge of the tray(looking from back). For preprinted forms and letterhead, load the media with the top edge feeding into the printer first.
- If you purchased the optional multipurpose tray, which is installed in the Tray 1 location, position the media face-up against the right edge of the tray first (facing front of printer), and then slide the media down into the tray. Load the media print-side up. For preprinted forms and letterhead, load the media with the top edge feeding into the printer first.
- To prevent jams, load only one type of media at a time into a tray. Also, when adding media, always remove the existing media and realign the media width and length guides to fit the new media.
- Always use media that conforms to the printer specifications. For more information about types of media that can be used with the printer, see the topic "paper sizes, capacities, and weights."
- Do not use paper that is heavily textured or does not absorb ink well. This type of paper can cause poorly filled graphics or text.
- The document margins must match (or exceed) a margin setting of 4 mm.

printing a demo page

Print a demo page to perform the following activities:

- Check the printer setup.
- Check the printer hardware configuration.

Print a demo page without connecting the printer to the computer. The demo page does not ensure that the computer and printer are properly connected.

The steps to print a demo page by using the LCD control panel are:

Press the select button on the LCD control panel. This brings up the MENU

Press the down arrow button to highlight **INFORMATION** , and then press the select button.

Press the down arrow button to highlight **PRINT DEMO**, and then press the select button to print the demo page.





hp business inkjet 3000 series

fast, cost effective, full featured color printer for workgroups

breakthrough speeds

up to 14ppm monochrome and 8ppm color in Normal mode; up to 21ppm monochrome and 18ppm color in Fast mode.

built for business

high-capacity ink cartridges and lowest cost of ownership with robust duty cycles of up to 30,000 pages per month.

intelligent networking

connect to the network as easily and reliably as any hp LaserJet printer with PCL 5,6 & PS 3 as a standard.

www.hp.com

demo page

software installation requirements

specifications for operating system compatibility

- Windows 98, Windows Millennium Edition, Windows NT 4.0, Windows 2000, Windows XP 32-bit (Professional and Home Editions), Windows XP 64-bit Edition
- Mac OS 8.6 9.2.2 (Classic)
- Mac OS X 10.2.1
- OS/2
- Linux
- UNIX
- MS-DOS printer driver support through third-party applications

specifications for network operating system compatibility

hp business inkjet printer 3000

• Windows 98, Windows Millennium Edition, Windows NT 4.0, Windows 2000, Windows XP 32-bit (Professional and Home Editions), Windows XP 64-bit Edition

hp business inkjet printer 3000n

- Windows 98, Windows Millennium Edition, Windows NT 4.0, Windows 2000, Windows XP 32-bit (Professional and Home Editions), Windows XP 64-bit Edition
- Novell IntranetWare, NetWare 4.x, 5.x, 6, NDS, and NDPS
- HP-UX 10.20, 11.x
- Solaris 2.5x, 2.6, 7, 8
- RedHat Linux 6.x, 7.x
- SuSE Linux 6.x
- Mac OS 8.6 9.2.2 (Classic)
- Mac OS X 10.2.1
- IBM OS/2 Warp 4.x
- AIX 3.2.5 and later
- MPE-iX*
- Artisoft LANtastic*
- Microsoft Windows Terminal Server Edition 4.0
- Windows 2000 Server Terminal Services with Citrix MetaFrame 1.8
- Windows XP Server Terminal Services with Citrix MetaFrame 1.8

hp business inkjet printer 3000dtn

- Windows 98, Windows Millennium Edition, Windows NT 4.0, Windows 2000, Windows XP 32-bit (Professional and Home Editions), Windows XP 64-bit Edition
- Novell IntranetWare, NetWare 4.x, 5.x, 6, NDS, and NDPS
- HP-UX 10.20, 11.x
- Solaris 2.5x, 2.6, 7, 8
- RedHat Linux 6.x, 7.x
- SuSE Linux 6.x
- Mac OS 8.6 9.2.2 (Classic)
- Mac OS X 10.2.1
- IBM OS/2 Warp 4.x
- AIX 3.2.5 and later
- MPE-iX*
- Artisoft LANtastic*
- Microsoft Windows Terminal Server Edition 4.0
- Windows 2000 Server Terminal Services with Citrix MetaFrame 1.8
- Windows XP Server Terminal Services with Citrix MetaFrame 1.8

contents of software CD ROM

Windows NT4/2000/XP/9X/ME users

- Setup resources, including user-friendly CD shell, fonts, and web registration
- Printer drivers, including PCL5C/6 and PostScript emulation printer drivers
- Documentation, including readme file, user guide, and HP Jetdirect Administrator's Guide

Mac OS 8.6 - 9.2.2 (Classic) and OS X - 10.2.1 users

- Apple PS LaserWriter printer driver (Classic Only), hp business inkjet printer 3000 series PPD
- Web Register
- User Guide
- business inkjet printer 3000 series web site
- Release Notes

Unix/Linux users

- Readme files in corresponding sub-directories
- Solutions available on IBM Website

startup page of CD browser

The startup page of the CD browser consists of the following options:

Install printer driver : Install the necessary software from the computer or the network.

Browse documentation : Browse the latest documentation available for the printer.

Register product: Register the printer by using this option.

Customization utility : Create a custom software installer that can be copied to floppy disks, the local hard drive, or the network drive.

Optional software : Install various optional software that are available for the printer.



startup page of the CD browser

installing the printer software

Install the printer software for local or network printing.

cable considerations

Warning It is recommended that you install the software before you connect the printer to the computer. Do not connect the cable until you are prompted by the computer.

Warning Windows XP 64-bit requires hardware-first installation. See "Hardware-first installation for Windows XP."

Warning Ensure not to connect the printer by using both the USB and parallel cable.

In most cases, after you install the printer software and connect a printer to the computer, you can install additional printers with USB cables without reinstalling the printing software.

printer software components for Windows

The printer software includes:

- Printer drivers:
- PCL 5C/6
- PostScript (PS) level 3 emulation
- Toolbox
- Screen fonts
- Customization utility

software-first installation

Warning Windows XP 64-bit requires hardware-first installation. See "Hardware-first installation for Windows XP."

Start Windows and make sure that no other Windows applications are running. Insert the Starter CD into the CD-ROM drive. The CD menu runs automatically.

Note If the CD does not run automatically, click Start , and then click Run . At the command line box, type the letter of your computer's CD-ROM drive followed by :\SETUP (for example, type D:\SETUP).

On the CD menu, click Install Printer Driver .



installing the printer software

Choose your language, and then click \mathbf{OK} .

Follow the instructions on the screen.

Type of Connection	×
	 Please select how your printer will be connected: Connected to this computer (e.g., parallel cable, USB cable or IR) Connected to the network (e.g., the printer is connected directly to the network or shared through another computer on the network)
	< <u>B</u> ack <u>N</u> ext > Cancel

Click Connected to this computer , and then click Next .

In the Select Port screen, click $\ensuremath{\textbf{USB}}$, and then click $\ensuremath{\textbf{Next}}$.

Warning When connecting the printer using a USB cable, you can install either the PCL 6 or the Postscript printer driver at any time.

Follow the instructions on the screen to complete the installation.

Model	×
	Select the model you are setting up.
	<u>M</u> odel: <mark>HP Business Inkjet 3000</mark> HP Business Inkjet 3000N HP Business Inkjet 3000DTN
	Description Base printer.
	< <u>B</u> ack <u>N</u> ext > Cancel

Installation Type	×
	Choose the installation type.
	 Typical Installation The following components will be installed. Screen Fonts Screen Fonts (PostScript 3) HP Business Inkjet 3000 Series Toolbox HP Business Inkjet 3000 PCL 6 Driver HP Business Inkjet 3000 PS Driver C Custom Installation Recommended for advanced users and system administrators. Provides more flexibility for installing drivers and software.
	< <u>B</u> ack <u>N</u> ext > Cancel



Finish		X
	Your HP Business Inkjet 3000 printer has been successfully Installed. Installation Details Select the actions to perform when Setup finishes. Print a test page Run Web Registration	
	<u> </u>	

Connect the USB cable to the computer and the printer. The Found New Hardware wizard appears on the screen and the printer icon is created in the Printers folder.

hardware-first installation

If you have connected the USB cable to the ports on the computer and the printer before installing the printer software, the Found New Hardware wizard appears on the computer screen.

In the Found New Hardware wizard, click $\ensuremath{\textbf{Next}}$.

Click Search for the best driver for your device (Recommended) , and then click Next .

Insert the Starter CD into the CD-ROM drive. If the CD menu appears, click **Exit** twice to close the CD menu.

Select **Specify a location**, click **Browse** to locate the installation files for the operating system the computer is using, and then click **OK**.

- For Windows 98 and Windows Me, use DRIVERS\<PRINTER DRIVER>\WIN9X_ME\<LANGUAGE>. For example, DRIVERS\PCL6\WIN9X_ME\ENGLISH contains the installation files for the English version of the PCL 6 printer driver.
- For Windows 2000, use DRIVERS\<PRINTER DRIVER>\WIN2K\ <LANGUAGE>. For example, DRIVERS\PS3\WIN2K\ENGLISH contains the installation files for the English version of the PS 3 printer driver for Windows 2000.

Click **Next** , and then follow the instructions on the screen.

Click Next , and then click Finish .

If you are using Windows 98 or Windows Millennium Edition, repeat steps 3 to 6 to finish the installation.

hardware-first installation for Windows XP

If you have connected the USB cable to the ports on the computer and the printer before installing the printer software, the Found New Hardware wizard appears on the computer screen.

In the Found New Hardware wizard, click **Install the software automatically** (Recommended) , and then click Next .

In the Select Port screen, click **USB Printing Support**, which allows you to access the printer status using the Toolbox.

Warning If you want to use USB Printing Support and you see more than one option, select the USB Printing Support option from Microsoft.

Click Next and then click Finish .

In the second Found New Hardware Wizard, click **Next** .

Click the best driver for your operating system. For Windows XP 64-bit, click either **HP Business Inkjet 3000 PCL 5C** or **HP Business Inkjet 3000 PS**. For Windows XP 32-bit, click **HP Business Inkjet 3000 PS**, and then click **Next**. If you see the Hardware Installation warning screen, click **Continue Anyway** . Otherwise, proceed to step 7.

Click Finish .

connecting the printer using a USB cable

Use a universal serial bus (USB) cable if the computer has a USB port and is running Windows 98, Windows Millennium Edition (Me), Windows 2000, or Windows XP. If your computer does not meet these specifications, connect the printer to your computer using a parallel cable.

connecting the printer using a parallel cable

Use a parallel cable to connect the printer to the computer if the computer has a parallel port and is running Windows 95, Windows 98, Windows Millennium Edition, Windows NT 4.0, Windows 2000, or Windows XP.

Start Windows and make sure that no other Windows applications are running.

Insert the Starter CD into the CD-ROM drive. The CD menu runs automatically.

Note If the CD menu does not run automatically, click Start , click Run , and and at the command line box, type the letter of your computer's CD-ROM drive followed by :\SETUP (for example, type D:\SETUP).

On the CD menu, click Install Printer Driver .

Choose your language, and then click OK .

Follow the instructions on the screen.

Click Connected to this computer , and then click Next .

Be sure the **Parallel** check box is selected. Use the drop-down menu to select the parallel port to which the printer is connected.

Warning If the Express Install using HP recommended defaults check box is selected, the installation program uses default options. If you want to specify the installation options, clear this check box.

Follow the instructions on the screen to complete the installation.

Connect the parallel cable to the computer and the printer.

connecting the printer using a network connection

When setting up the printer using a network connection, connect the printer to the network first, and then install the software.

If an HP Jetdirect print server was purchased separately, install it in the printer. The print server must be installed before you install the printer software. For more information about installing the HP Jetdirect print server, see "Installing optional accessories."

Warning The HP Jetdirect print server is pre-installed in the HP Business Inkjet 3000n and 3000dtn printer configurations.

Connect the network cable between the HP Jetdirect print server and a network port. Start Windows and make sure no other Windows applications are running. Insert the Starter CD into your CD-ROM drive. The CD menu runs automatically.

Warning If the CD menu does not run automatically, click Start , click Run , and at the command line box, type the letter of your computer's CD-ROM drive followed by :\SETUP (for example, type D:\SETUP).

On the CD menu, click Install Printer Driver .

Choose your language, then click $\ensuremath{\mathsf{OK}}$.

Follow the instructions on the screen.

Click Connected to the network , and then click Next .

Click Basic Server or Peer-to-Peer Network Setup , and then click Next .

Follow the instructions on the screen to complete the installation.

browsing documentation

Browse the latest documentation available for the printer by using the Browse Documentation option. Access the following documentation using the CD browser:

Release Notes – Includes installation and late-breaking information.

User's Guide – Includes the information related to:

- Setting up the printer
- Installing the printer software
- Troubleshooting the printer
- Maintaining the printer

HP JetDirect Guide – Enables you to access the following information:

- Configure the printer for network printing
- Troubleshoot the HP JetDirect print server

Setup Poster – A graphical, wordless roadmap to set up the printer.

Printer Web Site – Enables you to access the printer Web site for information related to the printer. Click the Printer Web site button to access the following Web site: http://www.hp.com/.



browse documentation

registering the product

Register the printer by clicking the Register Product button. This button enables access to the following Web site: http://register.hp.com/

Perform the following activities by accessing the hp registration Web site:

- Create a profile
- Update a profile

Acquire the following information by accessing the hp registration Web site:

- Enhanced customer service
- Fast expert technical support
- Timely notices of product and software upgrades
- Free newsletters with exclusive guidelines
- Special offers specific to your requirements



customization utility

Create a custom software installer that can be copied to floppy disks, local hard drives, or network drives. Perform the following activities by accessing the customization utility option:

Copy Printer Drivers Only – Copy the printer driver to selected media. The resulting files can be used with Add Printer Wizard of Microsoft.

Create Customized Installer – Create an interactive installer customized by language, operating system, model, and components.

Copy Entire Printing System Installer – Copy the printing system installer for the selected language and operating system to media other than floppy disks, for example shared network location.



optional software

The optional software available for the printer includes:

HP WebJet Admin – Download HP WebJet Admin from the Internet for a network printer management tool that is Web browser-based. Download HP WebJet Admin from the following URL: http://www.hp.com/go/webjetadmin

PANTONE Color Palletes – Download PANTONE color palletes.



optional software

uninstalling the printer software

The steps to uninstall the printer software are:

Select Programs --> hp business inkjet printer 3000 series -> HP Business Inkjet 3000 Series Uninstaller menu command.



uninstalling printer software - step 1

Components	Select the component(s) to uninstall. Click Next to uninstall.	perform the
	✓ HP Business Inkjet 3000 Series Toolbox	4683 K
	HP Business Inkjet 3000 PCL 6 Driver	2185 K
	✓ HP Business Inkjet 3000 PS Driver	441 K
	<u>S</u> elect All	<u>C</u> lear All
	< <u>B</u> ack <u>N</u> ext >	Cancel

Select the components that are to be uninstalled in the **Components** dialog box.

uninstalling printer software - step 2

Click **Finish** to uninstall the required components.

Uninstall Wizard Complet	te	×
	The Uninstall Wizard successfully finished uninstalling HP Business Inkjet 3000 Series Printing System.	
	Click Finish to complete uninstallation.	
	<u> </u>	

uninstalling printer software - step 3

The scrubber utility is built into the uninstaller. The utility performs the following activities:

- Reads the .ini file for all information.
- Deletes all printers using the driver specified.
- Deletes the printer driver and its dependent files.
- Deletes all the devices in the computer with the specified plug-n-play ID and USB ID.
- Deletes all the .inf and .pnf files specified in the scrub.ini file.
- Deletes all oem*.* files in the inf directory.
- Deletes all the files specified in the DeleteFiles section.

installing toolbox

The Toolbox is installed automatically when you install the printer software, or you can specify the Toolbox as part of a custom software installation.

Select **Custom Installation** radio button in the **Installation Type** dialog box and click the **Next** button.



Select the **HP Business Inkjet 3000 Series Toolbox** check box in the **Components** dialog box and click the **Next** button.



Click the **Install** button in the **Ready To Install** dialog box to install the Toolbox.



installing the Macintosh printer software

Macintosh printing software components

The printer software for Macintosh includes the following components:

- PostScript Printer Description files (PPDs) (Mac OS 8.6 to Mac OS 9.2.2) PPDs, in combination with the Apple LaserWriter 8 printer 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 Starter CD. Use the Apple LaserWriter 8 printer driver that comes with the computer.
- Printing Dialog Extensions (PDEs) (Mac OS X) PDEs are code plug-ins that provide access to printer features, such as number of copies, print on both sides, and quality settings. An installation program for the PDEs and other software is provided on the Starter CD.
- The HP InkJet Utility allows control of features that are not available in the printer driver. Use the illustrated screens to select printer features and complete tasks with the printer, such as the following:
- download files, view fonts, and change many of the printer settings
- check the ink cartridge levels
- configure and set the printer for Internet Protocol (IP) or AppleTalk printing

Note The HP InkJet Utility is not supported for the Korean, Japanese, Simplified Chinese, and Traditional Chinese languages.

connecting the printer with a network (Ethernet) cable in the Mac OS

When connecting the printer to a network in the Mac OS, make sure the HP Jetdirect print server is installed in the printer before you install the printer software.

Insert the Starter CD into the CD-ROM drive. The CD menu runs automatically. If the CD menu does not run automatically, double-click the CD icon on the desktop, and then double-click the ClassicInstaller icon (if you are using Mac OS 8.6 to Mac OS 9.2.2) or the CarbonInstaller icon (if you are using Mac OS X). This icon is located in the Installer:<language> folder of the Starter CD (where <language> is your language preference).

Follow the instructions on the screen.

Connect the cable between the ports on the computer and the printer.

If you are using Mac OS 8.6 to Mac OS 9.2.2, complete steps 5 through 9. -Or- If you are using Mac OS X, complete steps 10 through 13.

Mac OS 8.6 to Mac OS 9.2.2

Open the Desktop Printer Utility:

- Mac OS 8.6 to Mac OS 9.0.x : On the hard drive, double-click the Desktop Printer Utility icon in the Apple Extras: Apple LaserWriter Software folder.
- Mac OS 9.1.x to Mac OS 9.2.2 : On the hard drive, double-click the Desktop Printer Utility icon in the Applications (Mac OS 9): Utilities folder.

On the pop-up menu, select printer LaserWriter8 from the list, and then click OK .

In the **PostScript Printer Description (PPD) File** section of the window that appears, click **Auto Setup**.

Make sure **HP Business Inkjet 3000** is selected and click Select.

Click **Create**. The printer icon appears on the desktop.

Mac OS X

Open the Print Center (located in the Applications/Utilities folder), and then click **Add Printer** -Or- If you are using an LPR network, on the pop-up menu, select **LPR Printer using IP**, and then type the IP address for the printer.

If necessary, select the Zone.

Select **HP Business Inkjet 3000** from the list, and then click **Add**. A dot appears beside the printer name, indicating that this printer is now the default printer.

connecting the printer with a network (Ethernet) cable

When connecting the printer to a network, make sure the HP Jetdirect print server is installed in the printer before you install the printer software. For more information about using the HP Jetdirect print server, see installing optional accessories.

Insert the Starter CD into the CD-ROM drive. The CD menu runs automatically. If the CD menu does not run automatically, double-click the CD icon on the desktop, and then doubleclick the ClassicInstaller icon (if you are using Mac OS 8.6 to Mac OS 9.2.2) or the CarbonInstaller icon (if you are using Mac OS X). This icon is located in the Installer:<language> folder of the Starter CD (where <language> is your language preference).

Follow the instructions on the screen.

Connect the cable between the ports on the computer and the printer.

If you are using Mac OS 8.6 to Mac OS 9.2.2, complete steps 5 through 9. -Or- If you are using Mac OS X, complete steps 10 through 13.

Mac OS 8.6 to Mac OS 9.2.2

Open the Desktop Printer Utility:

- Mac OS 8.6 to Mac OS 9.0.x : On the hard drive, double-click the Desktop Printer Utility icon in the Apple Extras: Apple LaserWriter Software folder.
- Mac OS 9.1.x to Mac OS 9.2.2: On the hard drive, double-click the Desktop Printer Utility icon in the Applications (Mac OS 9): Utilities folder.

On the pop-up menu, select **LaserWriter8**, select **Printer (AppleTalk)** from the list, and then click **OK**.

In the **PostScript Printer Description (PPD) File** section of the window that appears, click **Auto Setup**.

Make sure HP Business Inkjet 3000 is selected and click Select.

Click **Create** . The printer icon appears on the desktop.

Mac OS X

Open the Print Center (located in the Dock at the bottom of the screen), and then click **Add Printer** .

If you are using an AppleTalk network, on the pop-up menu, select **AppleTalk** -Or- If you are using an LPR network, on the pop-up menu, select **LPR Printer using IP**, and then type the IP address for the printer.

If necessary, select the Zone.

Select **HP Business Inkjet 3000** from the list, and then click **Add** . A dot appears beside the printer name, indicating that this printer is now the default printer.
00			Printer	List	0
Make Default	Add	O Delete	Configure		
Name			and for the second s	Status	

enabling optional accessories in the printer driver

If you have installed an auto-duplex unit, Tray 3, or the multipurpose tray (which replaces Tray 1), and you are using Mac OS 8.6 to Mac OS 9.2.2, you must enable these optional accessories in the printer driver before you can use them with the printer.

Note Mac OS X automatically enables the auto-duplex unit in the printer driver when you install the printer software.

To enable optional accessories:

Click the printer's desktop printer icon.

On the **Printing** menu, click **Change Setup**.

On the **Change** pop-up menu, select the optional accessory you want to enable.

On the **To** pop-up menu, select **Installed** .

Click **OK** .

Repeat this procedure for each optional accessory you want to enable.

ſ	Printer Info	_	2
	hp business inkjet 3000		
N	Installable Options		
h	Memory Configuration: 64 MB		
	Duplex Unit (for 2-Sided Printing)		
	Printer Disk: Not Installed		
			1

changing printer settings and printing documents

In the Mac OS, you can configure printer settings at the LCD control panel or from the Page Setup and Print dialog boxes in the Mac OS. Settings configured in the Mac OS override settings configured in the LCD control panel.

You can also select the default printer. The default printer is the one that is used if you choose the Print command without first specifying which printer you want to use with an application. The default printer should be the printer that you use most often.

For more information about using the Mac OS to configure printer settings, see the Mac Help on your computer.

to set the default printer, Mac OS 8.6 to Mac OS 9.2.2

Click the desktop printer icon for the printer you want to be the default printer.

On the **Printing** menu, click **Set Default Printer** . A dark outline appears around the printeris desktop printer icon.

to set the default printer, Mac OS X

Open the Print Center, select the printer you want to be the default printer from the Printers List. For information about opening the Print Center, see the Mac Help on your computer.

On the **Printers** menu, click **Make Default**. A blue dot appears next to the printer's name in the Printers List.

to change page setup settings

Open the document you want to print.

On the File menu, click Page Setup.

From the **Format for** pop-up menu, select the printer for which you want to format the document, and then change the desired settings (such as selecting the type of media and setting custom page sizes).

On the **Paper** pop-up menu (Mac OS 8.6 to Mac OS 9.2.2) or the **Paper Size** pop-up menu (Mac OS X), select the media size on which you want to print.

Click OK .

to change print settings Open the document you want to print.

On the File menu, click Print .

Select the location of the media or the type of media on which you want to print:

- Mac OS 8.6 to Mac OS 9.2.2: On the pop-up menu, click All pages from , and then select the media source or the media type.
- Mac OS X: On the pop-up menu, select **Paper Feed**, and click **All pages from**. On the pop-up menu, select the media source or the media type.

Change the desired settings (such as selecting a source for the print job and choosing print quality modes).

Click Print .

uninstalling the Macintosh printer software

The Macintosh installer does not contain an unistall option. The user must manually remove the PPD files from the appropriate folder for Mac OS 8.6 - 9.2.2 and Mac OS X - 10.2.1.

Mac OS 8.6 - 9.2.2

Remove the PPD file from Macintosh HD (or the name of your hard drive) : Sysetm Folder : Extensions : Printer Descriptions : HP Business Inkjet 3000, and drag it onto the Trash icon on the Desktop.

On the Desktop there is an icon of the Printer. Drag this to the Trash.

Go to the Special menu at the top, and select Empty Trash.



Mac OS X - 10.2.1

Remove the PPD file from Macintosh HD (or the name of your hard drive) : Library : Printers : PPDs : Contents : Resourcs : en.lproj :, and drag the file HP Business Inkjet 3000 to the Trash icon in the Dock.

Go to the Print Center, select the HP Business Inkjet 3000 in the Printer List, and click the Delete button at the top of the window.

00		🥖 en.lproj	· · · · · · · · · · · · · · · · · · ·
	1 0	153 items selected 2.35 GB availab	kle
🚺 cs.lproj	Þ	👩 DocuPrint N2025 PS PPD.gz	Preview
🍯 da.lproj	P I	DocuPrint N2125 PS PPD.gz	* Preview
🔯 de.lproj	Þ	DocuPrint N2825 PS PPD.gz	APP D- Adobe: "4.5"
🚺 cn.lproj	Þ	DocuPrint N3225 PS PPD.gz	×⊼
🔯 es.lproj	p	DocuPrint N4025 PS PPD.gz	====
📁 fi Iproj	- F	DocuPrint N4525 PS.PPD.gz	● 不 Adopp Systems PostSeript(R) Printer
🚺 fr. Iproj	Þ	FF3X2006.PPD.gz	Description F le
🧊 it.lproj	Þ	💣 EF3XP790.PPD.gz	*死 Copyright 2002
🔯 ja.lproj	- F	🛃 HP Business Inkjet 2250.gz	Hewlett-Packard
🚺 ko.lproj	- F	🐻 HP Business Inkjet 2280.gz	Name: HP Business
🔰 ni.lproj	P	💣 HP Business Inkjet 2600.gz	Inkjet 3000
🔯 no.lproj	- F	🐼 HP Business Inkjet 3000	Kind: BBEdit text file
🚺 pt_ER.lproj	•	🐻 HP Color LaserJet 5M.gz	Size: 108 KB
🔯 pt.lproj	P	💣 HP Color LaserJet 4500.gz	Created: 5/26/99
🔯 ru. Iproj	- F	🛃 HP Color LaserJet 4550.gz	Modified: 7/25/02 Version: BetaGa
🔯 sv.lproj	- F	👩 hp color LaserJet 4600.gz	version: Betaba
🔰 tr. lproj	P	🙀 HP Color LaserJet 8500.gz	
🧊 zh CN.lproj	- F	👩 HP Color LaserJet 8550.gz	
🚺 zh_TW.Iproj	- F	🐻 HP Color LaserJet.gz	
		💣 HP Designjet 800 PS3.gz	
		👩 HP DesignJet 1050C PS3.gz	
		🐻 HP DesignJetCM PS3.gz	
		💣 HP DesignJet 2500CP PS3.gz	h.
		IIPDesignlet 3500CPPS3.gz	
		🐻 HP Designjet 5000 PS3.gz	
		💣 HP LaserJet 4 Plus.gz	
		🖉 IIP LaserJet 4ML.gz	
		P LaserJet 4MP.gz	
		💣 HP LaserJet011.110.gz	
		IIP LaserJet 4V.gz	
		📊 🐻 HP LaserJet SM.gz	

Macintosh printer software components

Macintosh printer software components

The main components of the Macintosh OS PostScript solution include:

- PostScript Printer Desscription (PPD) files
- Printer Dialog Extensions (PDEs)
- LaserWriter printer software from Apple
- Installers (Carbon and Classic)
- Mac Laserjet Utility
- Mac CD browser

PostScript Printer Description (PPDs)

The PostScript Printer Description (PPD) files are text files that provide a uniform approach to using the diverse features of devices that contain PostScript interpreters. Such features include different page sizes, memory size, and font availability, as well as finishing features such as duplex printing and stapling.

The following illustrates an example of an hp business inkjet printer 3000 series PPD file:

```
*FFD-Adobe: "4.3"
*$ _____
*% Adobe Systems PostScript(R) Frinter Description File
*% Copyright 2002 Hewlett-Packard Company.
*% PPD Version For Apple Macintosh
*% Date Code: 20020111
*% Product/PPD Version Information
ts ------
*% PPD File Version Information
*FormatVersion: "4.3"
*FileVersion: "1.0"
*LenguageVersion: English
*LanguageEncoding: MacStandard
*PCFileName: "HPUM5228.PPD"
*% Product Name and Version Information
*Menufacturer: "HP"
*Product: "(hp business inkjet xxxx)"
*HedelName: "HP Business Inkjet 4600 PS"
*ShortNickName: "HP Business Inkjet 4600 PS"
*NickName: "HP Business Inkjet 4600 PS - Alpha3"
*PSVersion: "(3010.107) 0"
```

Printer Dialog Extensions (PDEs)

Print Dialog Extensions (PDEs) are plug-ins for the OS X operating system. They are written by Apple and third parties to implement the printing user interface. Third parties add PDEs to support their custom features or to override Apple's default behaviors.

The currently supported PDEs include:

- Image Quality : General print quality features such as resolution and output mode. Print Quality: Best, Normal, Fast
- Finishing : Final media destinations, including stacking, stapling, and folding.
- Job Retention : Features to enable the user to hold and store jobs in printer mass storage.
- Edge to Edge : Enables (nearly) full bleed margins.
- **Proof and Print** : A reduced set of Job Retention, only implemented on the HP Color LaserJet 8550, available in OS X.
- **Color Option** : A combined set of features formerly from, and replacing, the obsolete ColorSmart and Color Quality, including Print Color as Gray (True, False).

All supported HP PDEs are included in the hp business inkjet printer 3000 series Macintosh installer, although they are not necessarily used by the printer PPDs. This minimizes conflicts between this and other printers. The unused PDEs are Finishing, Edge to Edge, and Proof and Print.

LaserWriter printer software

LaserWriter printer software includes the following files, which the installer places into the Extension folder:

- Desktop PrintMonitor v2.2.1
- Desktop Printer Spooler v2.2.1
- PrintingLib v8.6

installers

Both Carbon and Classic install the following:

- PPDs
- PDFs
- LaserWriter printer software
- Readmes
- User guides
- LaserJet Utility
- Fonts

The "installer locations" tables show where these items are installed.

item	version	package	location
HP Business Inkjet		Printer	\\MacSystem\System Folder\Printer
3000.ppd		Description	Descriptions
Desktop Printer		Extensions	\\MacSystem\System Folder\Extensions
Spooler			
Desktop		Extensions	\\MacSystem\System Folder\Extensions
PrintMonitor			
PrintingLib		Extensions	\\MacSystem\System Folder\Extensions
hp3000r.icm	18/06/2002	ColorSync	\\MacSystem\HP LaserJet Folder\ColorSync
		Profile	Profile
Albertus Extra Bold		HP Fonts	\\MacSystem\HP LaserJet Folder\HP Fonts
Albertus Medium		HP Fonts	\\MacSystem\HP LaserJet Folder\HP Fonts
Antique Olive		HP Fonts	\\MacSystem\HP LaserJet Folder\HP Fonts
Arial		HP Fonts	\\MacSystem\HP LaserJet Folder\HP Fonts
CG Omega	-	HP Fonts	\\MacSystem\HP LaserJet Folder\HP Fonts
CG Times		HP Fonts	\\MacSystem\HP LaserJet Folder\HP Fonts
Clarendon	-	HP Fonts	\\MacSystem\HP LaserJet Folder\HP Fonts
Condensed Bold			
Coronet		HP Fonts	\\MacSystem\HP LaserJet Folder\HP Fonts
Garamond	-	HP Fonts	\\MacSystem\HP LaserJet Folder\HP Fonts
Letter Gothic		HP Fonts	\\MacSystem\HP LaserJet Folder\HP Fonts
Marigold	-	HP Fonts	\\MacSystem\HP LaserJet Folder\HP Fonts
Times New Roman	-	HP Fonts	\\MacSystem\HP LaserJet Folder\HP Fonts
Univers		HP Fonts	\\MacSystem\HP LaserJet Folder\HP Fonts
Univers	-	HP Fonts	\\MacSystem\HP LaserJet Folder\HP Fonts
Condensed			
Wingdings	•	HP Fonts	\\MacSystem\HP LaserJet Folder\HP Fonts

installer locations (Classic)

item	version	package	location
HP Frameworks		PDE	\\MacSystem\System\Library\Printers
HP Color Options PDE		PDE	\\MacSystem\System\Library\Printers\PDEs
HP Edge to Edge · PDE		PDE	\\MacSystem\System\Library\Printers\PDEs
HP Finishing PDE		PDE	\\MacSystem\System\Library\Printers\PDEs
HP Image Quality PDE		PDE	\\MacSystem\System\Library\Printers\PDEs
HP Job Retention · PDE		PDE	\\MacSystem\System\Library\Printers\PDEs
HP Proof and Print PDE		PDE	\\MacSystem\System\Library\Printers\PDEs
HP Business Inkjet 3000.ppd (OS10.0.0 - OS10.0.4)		PDE	\\MacSystem\System\Library\Printers\PPDs\ Contents Resources\English.lproj
HP Business Inkjet 3000.ppd (OS 10.1 and above)		PDE	\\MacSystem\System\Library\Printers\PPDs\ Contents Resources\En.lproj

installer locations (Carbon)

additional features

Additional features supported in PPD files include:

Language support	 Tray support
 Paper sources 	 Media types
 Paper sizes 	 Watermarks
 Print quality 	

Supported languages:		Supported paper sources:
 English 		• Auto
• French		• Tray 1
• German		• Tray 2
• Italian		• Tray 3
• Spanish		Manual Paper Feed
Korean		
Supported paper sizes:		Supported print quality:
Letter	Legal	• Best
Executive	A4	• Normal
B5 (ISO)	B5 (JIS)	• Fast
Envelope #10	Envelope Monarch	
Envelope DL	Envelope C5	
A6 Card	Custom Page	
•		
Supported watermarks:		Supported watermarks (cont'd.):
Company Confidential		 Preliminary
Company Proprietary		• Proof
Company Private		Review Copy
Confidential		• Sample
• Сору		• Top Secret
• Copyright		• Urgent
• Draft		• Final
• File Copy		 For Internal Use Only

tray support

Paper	MP Tray Support	Tray 2	Tray 3	Duplex
Letter	Yes	Yes	Yes	Yes
Legal	Yes	Yes	Yes	Yes
Executive	Yes	Yes	Yes	Yes
A4	Yes	Yes	Yes	Yes
B5 (ISO)	Yes	Yes	No	Yes
B5 (JIS)	Yes	Yes	Yes	Yes
Envelope #10	Yes	No	No	No
Envelope Monarch	Yes	No	No	No
Envelope DL	Yes	No	No	No
Envelope C5	Yes	No	No	No
A6 Card	Yes	No	No	No
Custom Page	Yes	Yes	Yes	Yes

media types

Paper Name	MP Tray Support	Tray 2	Tray 3	Duplex
Plain Paper	Yes	Yes	Yes	Yes
HP Premium Inkjet Paper	Yes	Yes	Yes	No
HP Premium Inkjet Heavyweight Paper	Yes	Yes	Yes	Yes
HP Photo Quality Paper, Semi Gloss	Yes	Yes	Yes	Yes
HP Photo Quality Paper, Matte	Yes	Yes	Yes	Yes
HP Everyday Photo Paper, Semi Gloss	Yes	Yes	Yes	Yes
HP Everyday Photo Paper, Matte	Yes	Yes	Yes	Yes
HP Premium Transparency	Yes	Yes	Yes	No
HP Premium Plus Transparency	Yes	Yes	Yes	No
HP Photo Paper, Glossy	Yes	Yes	Yes	No
HP Premium Photo Paper, Glossy	Yes	Yes	Yes	No
HP Premium Plus Photo Paper, Glossy	Yes	Yes	Yes	No
HP Premium Plus Photo Paper, Matte	Yes	Yes	Yes	No
HP Colorfast Photo Paper, Glossy	Yes	Yes	Yes	No
HP Brochure & Flyer, Gloss	Yes	Yes	Yes	Yes
HP Brochure & Flyer, Matte	Yes	Yes	Yes	Yes

non-OS X features

Features supported in non-OS X operating systems:

- HP ColorSmart
- CMYK inks
- HP ColorSync Profile (hp3000r.icm is included with the installer)
- HP fonts
- Job Retention

Fonts supported in non-OS X operating systems:

- Albertus Extra Bold and Albertus Medium
- Antique Olive
- Arial
- CG Omega
- CG Times
- Clarendon Condensed Bold
- Coronet
- Garamond
- Letter Gothic
- Marigold
- Times New Roman
- Univers and Univers Condensed
- Wingdings

HP Job Retention features incorporated into the resource fork of non-OS X Macintosh PPD files:

- Job Retention : Off, Quick Copy, Proof and Hold, Stored Job
- User Name : User File Sharing Name, Forms, User-Defined Name
- Job Name : User Document Name, User-Defined Name
- PIN (for Private Job): User-Specified PIN

web deployment of drivers

The printer driver can be deployed from www.hp.com/support/businessinkjet3000.

The following drivers are deployed on the web:

- Full Printing System
- PCL6 + USB Driver
- PCL6 Driver
- PS Driver
- PCL5 + USB Driver
- PCL5 Driver
- LJ Utility
- WebJetAdmin support
- PS model script

connectivity options



USB cable

Use a USB cable, having a part number of C6518A, to connect the printer to the computer if the computer has a USB port and any one of the following operating systems:

- Windows 98
- Windows Millennium Edition (Me)
- Windows 2000
- Windows XP

If the computer does not meet the specifications, use a parallel cable to connect the printer to the computer.

In most cases, after you install the printer software and connect the printer to the computer, install additional printers with USB cables without reinstalling the printer software.

Warning Ensure to connect the USB cable only when prompted by the computer.

parallel cable

Use a parallel cable, having part numbers C2950A or C2951A, to connect the printer to the computer if the computer has a parallel port and any one of the following operating systems:

- Windows 95
- Windows 98
- Windows Millennium Edition
- Windows NT 4.0
- Windows 2000
- Windows XP

EIO

Install an HP Jetdirect print server in the EIO slot of the printer. By default, the hp business inkjet printer 3000n and 3000dtn configurations include an HP Jetdirect print server in one of these slots.

The printer is shared in a network environment by connecting it directly to the network with an HP Jetdirect print server. In addition, computers running in the Windows environment can share the printer when it is directly connected to a computer on the network. The HP Jetdirect printer server can be used in both client-server and peer-to-peer network configuration.

connectivity specifications

product name	specification
hp business inkjet printer 3000	EEE 1284-compliant bi-directional parallel USB 2.0 compliant full speed 2 open EIO slots 3 DIMM slots (100 pin, SDRAM, PC 100 or greater
hp business inkjet printer 3000n	EEE 1284-compliant bi-directional parallel USB port EIO slots (1 open EIO slot, and HP Jetdirect 615n Internal Print Server for Fast Ethernet 10/100Base-TX in 1 EIO slot) 3 DIMM slots (100 pin, SDRAM, PC 100 or greater
hp business inkjet printer 3000dtn	IEEE 1284-compliant bidirectional parallel USB 2.0 compliant full speed EIO slots (1 open EIO slot, and HP Jetdirect 615n Internal Print Server for Fast Ethernet 10/100Base-TX in 1 EIO slot 3 DIMM slots (100 pin, SDRAM, PC 100 or greater

The connectivity specifications are:

EIO and personality cards can be swapped between slots.

Note

connecting to a network

The HP Jetdirect print server can be used in both client-server and peer-to-peer network configurations.

peer-to-peer network

In a peer-to-peer network, the printer software is installed on each computer, and the system is configured to send print jobs directly to the printer. Each individual computer manages its own print jobs. Peer-to-peer printing is more suitable for smaller networks.

client-server network

On a client-server network, client computers send print jobs to dedicated server computers that control the use of each printer. Client-server printing is normally used in small work groups where dedicated computer servers manage the printing needs of many users.

Access the HP Jetdirect Print Server Administrator guide on the starter CD for information to set up the printer on a network.

The HP Jetdirect Print Server Administrator guide provides detailed information about setting up and using your HP Jetdirect print server. It also provides information about the following:

- HP Software Solutions for HP Jetdirect print servers:
- TCP/IP configurations
- Using LPD (Line Printer Daemon) services on the HP Jetdirect print server
- FTP printing
- Troubleshooting and configuration page messages
- Embedded Web server to access configuration and management pages for the print server and device

establishing a network connection using the EIO module

When setting up the printer by using a network connection, connect the printer to the network first, and then install the software.

If an HP Jetdirect print server was purchased separately, install it in the printer. The print server must be installed before you install the printer software.

Note The HP Jetdirect print server is pre-installed in the HP Business Inkjet 3000n and 3000dtn printer configurations.

Connect the network cable between the HP Jetdirect print server and a network port. Start Windows and make sure no other Windows applications are running. Insert the Starter CD into the CD-ROM drive. The CD menu runs automatically.

Note If the CD menu does not run automatically, select the Start , and then click Run . At the command line box, type the letter of your computer's CD-ROM drive followed by :\SETUP (for example, D:\SETUP.

On the CD menu, click Install Printer Driver .

Choose your language, and then click \mathbf{OK} .

Follow the instructions on the screen.

Click Connected to the network , and then click Next .

Click **Basic Server or Peer-to-Peer Network Setup** and click **Next** . Follow the instructions on the screen to complete the installation.

troubleshooting setup issues

quick checkup

If you have problems with the printer or have trouble printing, try the following troubleshooting tips to help diagnose and solve the problems:

- Print a Configuration Page, which can help diagnose printer problems.
- Check the printer's embedded Web server (if the printer is connected to a network).
- Complete the quick checkup steps listed below.

Step 1: Check the power

Make sure the power cord is connected firmly to the printer and to a working power receptacle. Make sure the printer is turned on.

Step 2: Check the print media

Make sure media is loaded correctly in the tray and that media is not jammed in the printer.

Note The media level indicators on the front of Trays 2 and 3 are accurate only when the printer is turned on.

Step 3: Check the LCD control panel

The printer displays two general types of error messages:

error	example	solution
message		
type		
Error messages	bad ink	See "Common printer messages."
showing	CARTRIDGE OR	
common printer	PRINTHEAD	
errors		
Messages	event: XXXX	The printer might have a hardware problem. Turn
showing error		off the printer, wait a few seconds, and then turn
codes		it on again. In most situations, this action solves
		the problem. If the message persists, your printer
		might need service. Write down the error code,
		and contact HP support.

general printer error messages

Step 4: Check the Attention light

If the Attention light on the LCD control panel is flashing and the printer does not print, lift the printhead cover and make sure the printhead latch is properly secured.

Step 5: Check the ink cartridges and printheads

Make sure all four ink cartridges and printheads are properly installed and that the protective tape covering the ink nozzles has been removed. Make sure the ink cartridges are not empty.

Step 6: Check the printer setup

Make sure the printer is selected as the current or default printer. If your computer is running Windows, make sure that Pause Printing is not selected. (From the desktop click Start, select Settings, and then click Printers. Right-click the printer and make sure a check does not appear next to Pause Printing.) For more information about checking printer settings, see the documentation for your computer.

Step 7: Check the print settings

Make sure the print settings (such as media type, media size, margins, and color) in the printer driver are correct. Also, check the settings in the Page Setup dialog box (typically available by selecting Page Setup from the File menu in an application).

Step 8: Check the USB or parallel port on your computer

Make sure your printer is connected directly to the USB or parallel port. Do not share the port with other devices, such as a Zip drive.

Step 9: Check the network setup

Make sure that your printer is properly set up in the network environment.

Note If the printer is connected to a network, you can use the embedded web server in the printer to check the network setup.

printing a configuration page

Print a configuration page to diagnose printer problems. The configuration page has the following sections:

item	section	description
1	Printer	Shows general printer information, such as firmware
	Information	version number, model name, and memory installed.
2	Event Log	Shows the number of entries in use, maximum number of
		entries, and the last three events on the LCD control panel
		display, starting with the most recent.
3	Installed	Shows the printer languages (personalities) in use, and
	Personalities	contents of the printer's DIMM slots and EIO slots.
	and Options	
4	Memory	Shows amount of RAM and Automatic Resource Saving
		information.
5	Security	Shows whether the LCD control panel is locked and
		whether a password is enabled.
6	Paper Trays	Shows the printer's installed trays and their media type
	and Options	and size settings.

To print a configuration page:

Press the select button on the LCD control panel.

Press the down arrow button to highlight $\ensuremath{\text{INFORMATION}}$, and then press the select button to select $\ensuremath{\text{INFORMATION}}$.

Press the down arrow button to highlight **PRINT CONFIGURATION**, and then press the select button to print the configuration page.

Note If an HP Jetdirect print server is installed, two pages print. If the auto-duplex unit is installed, do not remove the page from the output bin until both sides are finished printing.



configuration page

3



Module

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/O menu	
, resets menu	
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printer features overview

LCD control panel

The control panel consists of the LCD (liquid crystal display) that displays information on the current status of the printer. In addition, it provides the capability to configure and customize the printer.

paper input and output trays

The hp business inkjet 3000 series printers contain different paper trays for handling different types of paper and media. The different types of paper trays are:

- Tray 1 (rear) This tray either holds a single sheet of printable paper for manual feeding or the multipurpose tray, depending on which is installed.
- Tray 2 (front) This tray holds 300 sheets of 20-lb printable paper.
- Tray 3 (front) This tray (optional with the 3000dtn printer) holds 700 sheets of 20-lb printable paper.
- Multipurpose tray (rear) This tray holds cards and any special type of printable media It can hold up to 100 sheets of plain paper; other media have different specifications. Note: Tray 1 is removed to install the multipurpose tray.
- Output bin This tray can hold up to 100 sheets of plain paper; other media have different specifications.

auto-duplex unit

This standard accessory for the 3000dtn printer allows automatic printing on both sides of the paper. It is an optional accessory for 3000 and 3000n.

LCD control panel overview

Identify the following components:

- POWER button
- HELP button
- LCD display
- Back button
- Up and down arrow buttons
- Select button
- Ready light
- Attention light
- CANCEL JOB button
- PAUSE/RESUME button



LCD control panel

extending multipurpose tray and output bin

multipurpose tray

The multipurpose paper tray is available as an optional accessory. When the multipurpose tray is installed, it functions as Tray 1.

The steps to extend the multipurpose tray are:

Open the printer as follows:

Pull out the multipurpose tray extension lengthwise until it clicks into place. This extends the multipurpose tray to support media up to A4 length, or 297 mm (11.68 inches). The tray extension also serves as the paper length guide for the multipurpose tray.

Pinch and slide the paper width guide to its outermost position.

Add paper as follows:

The multipurpose tray has a maximum capacity of up to 100 sheets of 75 g/m2 (20 lb. bond) paper or an equivalent stack height of 10 mm (.39 inch).

The print-side of the media must be face-up. For transparencies, the adhesive strip edge must feed into the printer first.

To properly align media, place the stack against the left edge of the multipurpose tray (looking from back), and then slide the media down to rest in the tray. Do not overload the tray.

Pinch and slide the paper width guide until it fits snugly against the side of media.

Gently push down the tray extension until it fits snugly against the top of media.

Be careful that the tray extension does not cause the media to bend or sag.

Configure the paper size for the multipurpose tray.

output bin

To extend the output bin for longer media (for example, legal):

Grasp the extension on the output bin with one hand on each side.

Pull the extension toward you until it does not extend any further.

printing from tray 1, the rear manual feed unit

Tray 1 (manual feed) is designed to support media from 89 by 140 mm (3.5 by 5.5 inches) up to 216 by 297 mm (8.5 by 11.68 inches). Use Tray 1 for printing single envelopes, cards, custom-size paper, and heavy paper up to 0.52 mm (0.02 inches) thick. Tray 1 provides a straight-through paper path that allows the printer to handle heavy or thick paper. A straight-through paper path does not force the media to curve or bend as it travels through the printer. The manual feed will accept only one sheet at a time.

To load tray 1:

In the printer driver, select Manual Feed as the media source.

Select the type of media.

When the LCD control panel displays MANUALLY LOAD [TYPE] [SIZE], insert a single sheet of media of the correct size and type..

Position the media with the short edge of the paper feeding into the printer and the long edge against the left side of the tray. The media should be face-up.

For envelopes, insert a single envelope with the short edge of the envelope feeding into the printer, the flap facing down, and the stamp corner against the left side of the tray.

Push the media into the printer until you feel some resistance. Take care not to force media into the feed slot.

After each sheet prints, the printer prompts you to load another sheet of media. Load media as needed until the printer finishes printing. Other print jobs will not continue until the Tray 1 job is finished.

printing from tray 2

Tray 2 is the main tray on all hp business inkjet 3000 series printers. It holds as many as 300 sheets of 16 to 72 lb bond, from envelopes to legal-sized paper, and as many as 50 transparencies.

To load tray 2:

Grasp the handle under the front of the tray.

Slowly pull the tray out until it stops.

Do not pull the tray completely out.

Push the blue tabs on the paper length guide and paper width guides, to slide the guides to their outermost positions.

Place up to 300 sheets of paper (up to 34 mm, or 1.2 inches, stacked) into Tray 2.

If printing on transparencies, load a maximum of 50 transparencies into each tray, with the adhesive strip face-up (arrows face up) and toward the printer.

Push the media as far back into the tray as it will go. Make sure the print-side of the media is facing down. Do not exceed the maximum stack height as indicated on the yellow label inside the tray on the right side.

Push the blue tab on the paper length guide and paper width guides and slide them until they fit snugly against the media.

Insert the tray into the printer until it closes completely.

The printer can automatically detect some standard media sizes. If this is the case, only one size will appear in the TRAY 2 SIZE options. If the size does not match the media you loaded in the tray, open the tray and make sure the media sits as far in as possible. Adjust the paper width and length guides so they fit snugly against the media stack. Close the tray.

printing from tray 3

Tray 3 is an optional tray on the hp business inkjet 3000dtn printer. It holds as many as 700 sheets of 16 to 72 lb bond. Tray 3 is designed to hold standard-to-legal size and standard-weight media. Loading certain types of special media (such as envelopes, cards, or heavy media) in tray 3 can cause jams and might damage the printer.

Tray 3 is recommended if you frequently print multi-page documents or anticipate a high volume of printing.

To load tray 3:

Grasp the handle under the front of the tray.

Slowly pull the tray out until it stops.

Do not pull the tray completely out.

Push the blue tabs on the paper length guide and paper width guides, and slide them to their outermost positions.

Place up to 700 sheets of paper (up to 70 mm or 2.7 inches, stacked) into Tray 3.

Push the media as far back into the tray as it will go. Make sure the print-side of the media is facing down. Do not exceed the maximum stack height as indicated on the yellow label inside the tray on the right side.

Push the blue tab on the paper length guide and paper width guides and slide them until they fit snugly against the media.

Insert the tray into the printer until it closes completely.

The printer can automatically detect some standard media sizes. If this is the case, only one size will appear in the TRAY 3 SIZE options. If the size does not match the media you loaded in the tray, open the tray and make sure the media sits as far in as possible. Adjust the paper width and length guides so they fit snugly against the media stack. Close the tray.

media-size detection

media-size detection

To use your printer most effectively, decide which types and sizes of media you want to use in the paper trays, and then configure this information in the LCD control panel.

detectable media size	tray 2	optional tray 3
Letter	Y	Y
A4	Y	Y
Legal	Y	Y
US Executive	Y	Y
SO B5	Y	Y

detected media sizes

To ensure the media-size sensors are working properly, when loading tray 2 or 3, make sure the media sits as far in as possible. Adjust the paper width and length guides so they fit snugly against the media stack.

If you load custom-size media, you must configure the paper size in the LCD control panel. Also, if you are printing on media that does not match the media type setting for the tray, you must configure the media type in the LCD control panel.

printing on special media

envelopes and cards

Print envelopes and cards from tray 1 or the optional multipurpose tray. Use the rear manual feed for printing a single envelope (20 to 24 lb bond) or card (61 to 110 lb index). You can load up the multipurpose tray with as many as 10 envelopes or 10 cards (10 mm, or 0.4 inch, stacked).

To print single envelopes or cards using the rear manual feed:

In the printer driver, select Manual Feed as the media source, and then select the envelope or card size. Click OK.

When the LCD control panel displays **MANUALLY LOAD [TYPE] [SIZE]**, insert an envelope or card of the correct size and type along the left side of the tray.

Envelopes have to be inserted with the short edge of the envelope feeding into the printer, the flap facing down, and the stamp corner against the left side of the tray, looking at printer from back.

Push the media into the printer until you feel some resistance. Take care not to force media into the feed slot.

After each item prints, the printer prompts you to load another item of media. Load media as needed until the printer finishes printing. Other print jobs will not continue until the job in tray 1 is finished.

To print multiple envelopes or cards using the multipurpose tray:

Insert as many as 10 envelopes or cards into the multipurpose tray, and position them against the right side of the tray (facing front). Envelopes should be placed with the flap facing down and the stamp corner against the right side of the tray.

In the printer driver, select Tray 1 as the media source, and then select the envelope or card size.

Print the document.

transparencies

Use Tray 1 or the optional multipurpose tray (if installed) to print on transparencies. (If the optional multipurpose tray is not installed and you want to print multiple transparencies, use Tray 2 or Tray 3.) When Tray 2 or Tray 3 is configured in the LCD control panel to print transparencies, the printer optimizes the printing process to allow the transparencies to dry completely.

Load a maximum of 50 transparencies in Tray 2 or Tray 3, and up to 20 transparencies in the optional multipurpose tray. Tray 1 loads a single transparency at a time.

Handle transparencies using the edges. Oils from your fingers can cause print quality problems.

Use HP Premium Plus Inkjet Transparency Film, which is specifically designed to work with your printer, or use other transparencies designed to work with HP Inkjet printers.

For best results when printing multiple transparencies, use HP Premium Plus Inkjet Transparency Film.

The steps to print on transparencies are:

Load the transparencies into the optional multipurpose tray with the rough side up and the white strip feeding into the printer first. If the optional multipurpose tray is not installed, use Tray 2 or Tray 3 with the transparencies facing rough side down and the white strip pointing forward into the tray. Load no more than 50 transparencies in Tray 2 or Tray 3, and no more than 20 transparencies in the optional multipurpose tray. In the printer driver, select Tray 1, Tray 2, or Tray 3 as the media source, and then select HP Premium Transparency as the media type.

Print the document.

heavy weight paper

When printing on heavy paper, such as coated paper and photo paper, use the following guidelines:

When printing on heavy paper (up to 0.52 mm or 0.02 inch thick), use Tray 1 or the optional multipurpose tray. They provide a straight-through paper path that allows the printer to handle heavy or thick paper without bending or curling the paper

Use Tray 1 when printing a single sheet of heavy paper. If installed, use the optional multipurpose tray when printing multiple sheets of paper.

Caution Do not use paper that is heavier than the media specification recommended for this printer. Doing so can cause misfeeds, jams, reduced print quality, and excessive mechanical wear.

To print on heavyweight paper using the manual feed, tray 1:

In the printer driver, select Manual Feed as the media source, select the appropriate media type, and then print the document.

When the LCD control panel displays **MANUALLY LOAD [TYPE] [SIZE]**, insert one sheet of paper of the correct type and size into Tray 1. Make sure the sheet is facing up and is against the left edge of the tray.

If you are printing more than one page, insert another sheet of paper when prompted by the the LCD control panel.

To print on heavyweight paper using the optional multipurpose tray:

Load the media face-up in the optional multipurpose tray. Position the media against the right edge (when facing printer) of the tray first, and then slide the media down into the tray.

In the printer driver, select Tray 1 as the media source, and then select the appropriate media type.

Print the document.

custom-sized media

Use Tray 1 when printing on paper that is 89 by 140 mm (3.5 by 5.5 inches) to 216 by 356 mm (8.5 by 14 inches).

Use the optional multipurpose tray (if installed) when printing on paper that is 89 by 140 mm (3.5 by 5.5 inches) to 216 by 356 mm (8.5 by 14 inches).

Use Tray 2 or Tray 3 when printing on paper that is 176 by 250 mm (6.9 by 9.8 inches) to 216 by 356 mm (8.5 by 14 inches).

If your application supports custom size media, set the media size in the application before creating and printing the document. If your application does not support custom size media, set the size in the printer driver, create the document, and then print it. (You might need to reformat existing documents to print them correctly on custom paper sizes.)

To print on custom-size paper using the manual feed, tray 1:

In the printer driver, select Manual Feed as the media source, either select or create a custom size, and then print the document.

When the LCD control panel displays **LOAD TRAY 1** [**TYPE**] [**SIZE**] insert one sheet of media into Tray 1, insert one sheet of media into Tray 1.

If you are printing more than one page, insert another sheet of media when prompted by the printer.

To print on custom-size paper using tray 2, tray 3, or the optional multipurpose tray:

Load the media in the tray.

Set the media type and size on the LCD control panel.

In the printer driver, select Tray 1, Tray 2, or Tray 3 as the media source, and then either select or create a custom size.

Print the document.

media and tray compatibility

types

The following table lists the types of media that are compatible with the printer and shows which media can be used with the printer's paper trays and accessories.

paper and transparency type	tray 1	tray 2	tray 3	auto- duplex unit
Everyday paper HP Multipurpose Paper HP	Y	Y	Y	Y
Printing Paper Office Paper HP Office Recycled				
Paper				
Business communication paper HP Premium Inkjet	Y	Y	Y	Y
Paper (not supported by the auto-duplex unit) HP				
Professional Brochure and Flyer Paper HP				
Premium Inkjet Heavyweight Paper				
Presentation paper HP Premium Inkjet	Y	Y	Y	
Transparency Film HP Premium Plus Inkjet				
Transparency Film				
Photo paper HP Premium Plus Photo Paper HP	Y	Y	Y	
Premium Photo Paper HP Photo Paper HP				
Colorfast Photo Paper HP Photo Quality Paper HP				
Photo Quality Inkjet Paper				
Design paper HP Design Glossy Paper HP Design	Y	Y	Y	
Heavyweight Paper				

supported media types

capacities

The following table lists the capacities of the printer's paper trays and accessories.

tray	capacity
1 manual feed	1 sheet paper or other media
unit	
2	300 sheets plain paper and HP media (30-mm or 1.2-inch stack
	of 16 to 72 lb bond/60 to 270 g/m2), 50 transparencies
3	700 sheets (70-mm or 2.8-inch stack of 16 to 28 lb/60 to 135
	g/m2 plain bond)
auto-duplex unit	N.A.
multipurpose (in	100 sheets plain paper and HP media (30-mm or 1.2-inch stack
place of tray 1)	of 16 to 72 lb bond/60 to 270 g/m2), 20 transparencies, 10
	envelopes (10-mm or 0.4-inch stack), 10 cards (10-mm or 0.4-
	inch stack)

capacities of paper trays and accessories

sizes

The following table lists the media-size compatibility for paper trays and accessories.

me	edia	tray 1	tr	ay 2	tray 3	auto-duplex unit
U.S. Letter (216 by 279 mm; 8.5 by 11 inches)		Y		Y	Y	Y
U.S. Legal (216 k by 14 inches)	oy 356 mm; 8.5	Y		Y	Y	Y
A4 (210 by 297 11.7 inches)	mm; 8.3 by	Y		Y	Y	Y
JIS B5 (182 by 2 10.1 inches)	57 mm; 7.2 by	Y		Y	Y	Y
ISO B5 (176 by 2 by 9.9 inches)	250 mm; 6.9	Y		Y	Y	Y
COM10 Envelop mm; 4.1 by 9.5 i		Y				
DL Envelope (110 4.3 by 8.6 inche		Y				
C5 Envelope (16 6.4 by 9 inches)	2 by 229 mm;	Y				
Monarch Envelop mm; 3.9 by 7.5 i		Y				
Index cards (102 by 6 inches or by 8 inches)		Y				
US Postcard (89 3.5 by 5.5 inche	s)	Y				
A6 card (105 by by 5.8 inches)	148 mm; 4.1	Y				_
Custom-size	176 by 257	88.9 by 139	9.7	176 b	y 257	88.9 by 139.7
media	mm up to 216	mm up to 21	6	mm up	to 216	mm up to 216
	oy 356 mm;	by 356 mm;	3.5	by 35	6 mm;	by 356 mm; 3.5
	5.9 by 9.8	by 5.5 inche	s	6.9 by	9.8	by 5.5 inches
	•	up to 8.5 by inches			up to 8.5 inches	up to 8.5 by 14 inches

media sizes for paper trays and accessories
double-sided printing

layout guidelines

When printing on both sides of the page using the auto-duplex unit, follow these guidelines:

- When printing on both sides of a page, one side of the page is printed first. Then the page must partially exit the printer to be flipped. Do not attempt to remove the page from the printer until both sides have finished printing.
- The auto-duplex unit supports U.S. Letter, U.S. Legal, U.S. Executive, JIS Executive, A4, JIS B5, and custom size media from 176 by 250 mm (6.9 by 9.9 inches) up to 216 by 356 mm (8.5 by 14 inches).
- Do not print on both sides of transparencies, envelopes, index cards, or paper lighter than 60 g/m2 (16 lb bond) or heavier than 105 g/m2 (28 lb bond). Jams might occur with these types of media. However, double-sided special media made exclusively by HP can be used with the auto-duplex unit.
- To print on both sides of paper, make the selection from the software or printer driver. (For Windows, see the printer driver online help. For the Mac OS, see the Mac Help on your computer.)
- If you do not use the printer driver that came with the printer, you might need to change the DUPLEX setting from the PRINTING menu (within the CONFIGURE DEVICE menu) in the LCD control panel to ON. You can also set the layout options in the DUPLEX BINDING item.
- Several kinds of paper require a specific orientation when you print on both sides of a page, such as letterhead, preprinted paper, and paper with watermarks and prepunched holes.
- If you attempt to print on both sides of paper without an auto-duplex unit installed, the printer prints the document on one side of the paper.
- The four orientation options for printing on both sides of a page are shown below. These options can be selected from the printer driver or from the LCD control panel by setting DUPLEX BINDING from the PRINTING menu, and ORIENTATION from the PCL menu.

Quick Sets	Save	1	H	
Document Options Print on Both Sides Flip Pages Up Booklet Printing: Off Off Letter (Left Binding) Letter (Right Binding) Legal (Left Binding) Legal (Left Binding) Legal (Right Binding) 1 → Pages per Sneet Page Order: Right, then Down		, iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	5 by 11 inches	
()	ок	Cancel	Acely	Help

printer driver

long-edge portrait

This is the default printer setting, and the most common layout used, with every printed image oriented right side up. Facing pages are read from top to bottom on the left page, then from top to bottom on the right page.



long-edge portrait

long-edge landscape

This layout is often used in accounting, data processing, and spreadsheet applications. Every other printed image is oriented upside-down. Facing pages are read continuously from top to bottom. When using the PCL printer driver on a computer that runs Windows, select "Flip Pages Up."



long-edge landscape

short-edge portrait

This layout is often used with clipboards. Every other printed image is oriented upsidedown. Facing pages are read continuously from top to bottom. When using the PCL printer driver on a computer that runs Windows, select "Flip Pages Up."



short-edge portrait

short-edge landscape

Each printed image is oriented right side up. Facing pages are read from top to bottom on the left page, then from top to bottom on the right page.



short-edge landscape

upgrading hardware

accessory	part number
HP PCL 5c/PostScript 3 Emulation Upgrade Kit	C8229A
HP JetDirect 610n EIO internal print server, Token Ring	I4167A
HP JetDirect 600n EIO internal print server, 10Base-T	I3110A
HP JetDirect 600n EIO internal print server, 10Base-T, 10Base2,	3111A
and LocalTalk	
HP JetDirect 500x external print server, Token Ring (3-part)	J3264A
HP JetDirect 500x external print server, 10/100Base-TX (3-part)	I3265A
HP JetDirect 310x external print server	l6038A
HP JetDirect 300x external print server, 10/100Base-TX (1-part)	13263B
HP JetDirect 175x external print server	l6035A
HP JetDirect 170x external print server, 10Base-T	13258B
64 MB SDRAM DIMM	C7846A
128 MB SDRAM DIMM	C9121A
HP IEEE 1284-compliant bidirectional parallel cable, 2m	C2950A
HP IEEE 1284-compliant bidirectional parallel cable, 3m	C2951A

available accessories

Any laptop memory which is Intel-specified PC-100 SDRAM (64 MB/128 MB) capacity will work. HP recommends the two mentioned above.

upgrading firmware

firmware download utility

The HP firmware download utility provides improved usability for system administrators and others to upgrade printer firmware with ease. One of the main features of this utility is that it allows you to upgrade multiple similar printers simultaneously over a network.

flash over network

Select a printer model on the Network Printer Models List. This effectively acts as a filter for the printers shown on the Network Printers List.

The chosen file will be shown in the upper text box. The user then selects as many printers as required by checking them. Clicking on the "Flash" button will send the flash files over the network to the respective printers. Progress and Status bars are included in the user interface to ensure that the user is aware of the status of the send operation.

Currently, for network flash, only networks on TCP/IP are supported as utilizing FTP to perform the file transfer.

flash scheduling

The user can configure printer firmware flashing to be carried out at an appropriate time. The main reason for providing a scheduling mechanism in the firmware download utility is that it will not further congest network traffic during the day. Printer firmware flash can be performed while network traffic is easy and fewer users would be using the printer, which is during the night or on weekends.

The date and time for the schedule is configured using the Schedule section.

When the printer flash schedule configuration is completed, the user clicks the "Activate Task" to complete the schedule function.

The firmware download utility is then minimized to the system task tray and stays resident until the schedule expires. However, when the user double-clicks on the system task tray icon, the firmware download utility User-Interface will be restored and the schedule is disabled, available for re-configuring, until "Activate Task" is clicked again.

supported ports

Direct connect ports:

- Parallel ports (LPT)
- USB ports

Network ports:

- Standard and HP TCPI/P ports
- LPR ports

web jetadmin

HP's Web Jetadmin is a web-based system administration tool that allows remote installation and management of networked peripherals from a web browser. It enables network administrators to configure network printers, manage printer features, and monitor printer status, including levels for printer supplies. HP Web Jetadmin is available from HP Customer Care Online at http://www.hp.com/go/webjetadmin .

alternative flash method

Power up until printer displays Ready. If the boot process fails during initialization, refer to "Boot Menu" in "Service and Repair" to boot the printer in MANUFACTURING mode.

From a DOS prompt, execute **Copy /b <firmware filename> lpt1**. The LCD control panel will display RECEIVING UPGRADE, then PERFORMING UPGRADE, then PROCESSING JOB.

Wait until the printer automatically reboots. The entire upgrade process can take at least 20 minutes to complete.

If the printer hangs at PROCESSING JOB after more than 20 minutes, reboot the printer manually by turning it off and then on again.

changing defaults

printer settings

You can change printer settings from the LCD control panel, from the printer driver, and from a software application.

Note Settings in a software application always take precedence over settings in the printer driver or the LCD control panel.

If you want printing options to be available only in a particular software application, change the settings from the application. After you close the application, the printer settings will return to the defaults configured in the printer driver.

To change printer settings from a software application, on the File menu, click Print, and then click Setup or Properties.

If you want printing options to be available in all software applications you use on the computer, change the default settings in the printer driver.

To change settings using the printer driver:

- 1. From the operating system desktop, click Start, point to Settings, then click Printers (Windows 95, Windows 98, Windows Me, Windows NT 4.0, and Windows 2000). -Or-Click Start, and then click Printers and Faxes (Windows XP).
- 2. Right-click the printer icon, and then choose the option for your operating system:
- For Windows 95, Windows 98, Windows Me, and Windows XP, click Properties.
- For Windows NT 4.0, click Document Defaults or Properties.
- For Windows 2000, click Printing Preferences or Properties.
- 3. Change the desired settings, and then click OK.

paper type

You can change the paper type from the LCD control panel.

menu map

printing a menu map

To print an LCD control panel menu map:

Press (select button) on the LCD control panel.

Press (down arrow button) to highlight INFORMATION, and then

Press (select button) to select INFORMATION.

Press (select button) to select PRINT MENU MAP.



example menu map

retrieve job menu

This menu displays all stored jobs. You can scroll through the list to find and select a specific job. If the printer has no stored jobs, the LCD control panel displays the message NO STORED JOBS.

information menu

message	value	description
PRINT MENU MAP	N.A.	Prints a map of the printer menu structure.
PRINT CONFIGURATION	N.A.	Prints a page describing current configuration settings (such as firmware version, model, accessories installed, I/O support, or other details). If an HP Jetdirect print server is installed, a second page will be printed, which displays the settings for the HP Jetdirect print server.
PRINT SUPPLIES STATUS PAGE	N.A.	Prints the estimated remaining life for the supplies and lists statistics on the total number of pages and jobs processed. This item also shows ink cartridge manufacture date, serial number, page counts, and maintenance information.
SUPPLIES STATUS	N.A.	Displays the supplies status in a scrollable list.
PRINT USAGE PAGE	N.A.	Prints a count of all media sizes that have passed through the printer; lists whether they were simplex, duplex, monochrome, or color; and reports the page count.
PRINT DEMO	N.A.	Prints a demonstration page.
PRINT FILE DIRECTORY	N.A.	Prints the name and directory of files stored on an optional hard disk.
PRINT PCL FONT LIST	N.A.	Prints the available PCL fonts.
PRINT PS FONT LIST	N.A.	Prints the available emulated PostScript (PS) fonts.

paper handling menu

message	value	description
TRAY 1 SIZE	A6 ISOB5 JISB5 JEXEC JPOST COM10 ENVELOPE MONARCH ENVELOPE C5 ENVELOPE DL ENVELOPE CUSTOM ANY CUSTOM	Selects media size loaded in Tray 1. Default = LETTER
TRAY 1 TYPE	QULALITY GLOSS PHOTO QUALITY MATTE PREMIUM INKJET PREMIUM IJ HEAVY BROCHURE GLOSS BROCHURE MATTE PM PHOTO GLOSS PM+ PHOTO GLOSS PM+ PHOTO MATTE PREMIUM TRNSPRNCY PREMIUM+ TRNSPRNCY COLORFAST PHOTO	Selects media type loaded in Tray 1. Default = PLAIN
TRAY 2 SIZE		Displays the current size configuration for the tray. Sizes are detected by the printer tray. To use a custom size, load the media in the tray and adjust the length and width guides to fit snugly against the media. Default = LETTER
TRAY 2 TYPE		Selects media type loaded in tray 2. Default = PLAIN
TRAY 3 SIZE	ANY LETTER LEGAL EXECUTIVE A4 JISB5 JEXEC CUSTOM ANY CUSTOM	Displays the current size configuration for the tray. Sizes are detected by the printer tray. To use a custom size, load the media in the tray and adjust the length and width guides to fit snugly against the media. This item is displayed only whenTray 3 is installed. Default = LETTER

TRAY 3 TYPE	ANY PLAIN PHOTO GLOSS	Selects media type loaded in Tray
	PHOTO QUALITY GLOSS	3. This item is displayed only when
	PHOTO QUALITY MATTE	Tray 3 is installed. Default = PLAIN
	PREMIUM INKJET PREMIUM IJ	
	HEAVY BROCHURE GLOSS	
	BROCHURE MATTE PM	
	PHOTO GLOSS PM+ PHOTO	
	GLOSS PM+ PHOTO MATTE	
	PREMIUM TRNSPRNCY	
	PREMIUM+ TRNSPRNCY	
	COLORFAST PHOTO	

configure device menu

message	value	description
COPIES	1 - 32000	Sets the number of copies to print. Default = 1
DEFAULT PAPER SIZE	LETTER LEGAL EXECUTIVE A4 A6 SOB5 JISB5 JEXEC JPOST JPOSTD COM10 ENVELOPE MONARCH ENVELOPE C5 ENVELOPE DL ENVELOPE CUSTOM	Sets the default media size. Default = LETTER
DEFAULT CUSTOM PAPER SIZE	UNIT OF MEASURE X DIMENSION Y DIMENSION	Sets the unit of measurement and dimensions for jobs that have no dimensions. The values can be set independently and apply to any jobs that are sent without dimensions. Default = INCHES
DEFAULT PAPER TYPE	ANY PLAIN PHOTO GLOSS PHOTO QUALITY GLOSS PHOTO QUALITY MATTE PREMIUM INKJET PREMIUM IJ HEAVY BROCHURE GLOSS BROCHURE MATTE PM PHOTO GLOSS PM+ PHOTO GLOSS PM+ PHOTO MATTE PREMIUM TRNSPRNCY PREMIUM+ TRNSPRNCY COLORFAST PHOTO	Sets a default media type. Default = PLAIN
DUPLEX	OFF ON	This item appears only when an auto-duplex unit is installed. Set the value to ON to print on both sides (duplex) or OFF to print on one side (simplex) of a sheet of paper. For more information, see "Load paper and configure media types and sizes." Default = OFF
DUPLEX BINDING	long edge short edge	This item appears only when an auto-duplex unit is installed and the duplex option is on. Choose the binding edge when duplexing (printing on both sides of paper). For more information, see "Load paper and configure media types and sizes." Default = LONG EDGE

Override A4/ Letter	NO YES	Sets the printer to print an A4 job on letter-size paper when no A4 paper is loaded, or to print a letter-size job on A4 paper when no letter-size paper is loaded. Default = NO
manual Feed	OFF ON	Feeds media manually. Default = OFF
COURIER FONT	REGULAR DARK	Selects a version of the Courier font. Default = REGULAR
WIDE A4	NO YES	Changes the printable area of A4 paper so that eighty 10-pitch characters may be printed on a single line. Default = NO
PRINT PS ERRORS	OFF ON	Prints a list of PS errors. Default = OFF
PCL	FORM LENGTH ORIENTATION FONT SOURCE FONT NUMBER FONT PITCH SYMBOL SET APPEND CR TO LF	Configures settings for printer control language (PCL), also known as the printer personality.

configure device/printing menu

message	value	description
ALIGN	N.A.	Begins the printhead alignment process.
PRINTHEADS		
COLOR	N.A.	Begins the color calibration process.
CALIBRATION		
CLEAN	N.A.	Begins the printhead cleaning process.
PRINTHEADS		
REPLACE	N.A.	Moves the printhead carriage to allow users to replace
PRINTHEADS		the printheads.
DEFAULT	DRAFT	Selects the default level for print quality. This setting is
QUALITY LEVEL	NORMAL	used if the print job contains no print-quality selection.
	BEST	Default = NORMAL
NORMAL	AUTO	Selects the normal mode for print quality. SPEED prints
MODE	SPEED	at the best possible speed, with less concern for print
PRINTING	QUALITY	quality. QUALITY prints at a predetermined quality
		evel with less concern for print speed. AUTO
		combines speed and quality settings depending on the
		health of the printhead. Default = AUTO

configure device/print quality menu

system setup menu

message	value	description
IOB STORAGE LIMIT	1-100	Sets the maximum number of jobs that can be stored on the printer. (This item appears only if the printer has an optional hard disk installed.) Default = 32
IOB HELD TIMEOUT	OFF 1 HOUR 4 HOURS 1 DAY 1 WEEK	Sets how long the printer stores a copy of the job on its optional hard disk. Default = OFF
TRAY BEHAVIOR	USE REQUESTED TRAY MANUALLY FEED PROMPT	Specifies settings for the tray-selection behavior. USE REQUESTED TRAY requires the printer to print from only the tray specified. MANUALLY FEED PROMPT requires you to press (select button) on the LCD control panel before printing begins.
POWERSAVE TIME	2 minutes 15 minutes 30 min utes 1 hour 90 minutes 2 hours 4 hours	Reduces power consumption when the printer has been inactive for an extended period. Default = 30 MINUTES
PERSONALITY	AUTO PCL PS	Sets the default personality to automatic switching, PCL, or PostScript emulation. Default = AUTO
Clearable Warnings	IOB ON	Sets the length of time that a clearable warning is displayed on the LCD control panel. If JOB is selected, warnings are displayed until the end of the current job. If ON is selected, warnings are displayed until you press (select button). Default = JOB
auto Continue	OFF ON	Determines printer behavior when the system generates an Auto Continuable error. Default = ON
SUPPLIES LOW	STOP CONTINUE	Sets the printing action to be taken when the low supplies setting is reached for ink catridges only. low supplies. Default = CONTINUE
language	A list of available anguages appears	Sets the default language. Default = ENGLISH

I/O menu

message	value	description
I/O TIMEOUT	5 - 300	Sets the length of time (in seconds) that the printer waits for remaining data for a print job. After this time, the printer prints the print job. Default = 15.
PARALLEL INPUT	advanced Functions	Accesses two options: HIGH SPEED enables fast parallel port communication with the host. If the printer is connected to an older computer, you may want to disable this option. ADVANCED FUNCTIONS allows you to enable or disable the bi- directional parallel communication. If you disable this option, the host will not receive any messages from the Printer Status and Alerts software.
EIO X JETDIRECT		Accesses submenus for an EIO accessory, such as the HP Jetdirect print server.

resets menu

message	value	description	
restore Factory Settings		estores all values (except those for an HP Jetdirect print erver) to the predetermined factory values of the printer.	
		Warning Use the restore option on this menu with caution. You can lose printer configuration settings when you select these items. Reset the printer only when you want to restore the printer's default settings or when the communication between the printer and computer has been interrupted.	
POWERSAVE	OFF ON	Enables and disables Powersave. Default = ON	

diagnostics menu

message	description
PRINT EVENT	Prints the last 50 entries in the printer's event log, starting with
LOG	the most recent event.
Show event	Displays the last 50 events on the LCD control panel display,
LOG	starting with the most recent event.
PAPER PATH	Tests the paper handling features of the printer.
TEST	

service menu

message valu	e description
--------------	---------------

CLEAR EVENT	N.A.	Clears all events listed in the Event Log. This feature can
log		be useful when tracking an issue.
TOTAL MONO	0-	Tracks the number of pages printed using only black.
PAGES	9999999	Default = 9
TOTAL COLOR	0-	Tracks the number of pages printed using any color
PAGES	9999999	other than black. Default = 9
SERIAL	N.A.	Displays the printer serial number. The serial number
NUMBER		displayed in the LCD control panel should match the
		serial number tag located on the rear of the printer.
Service ID	N.A.	Displays a number for printer administrators to reference
		when contacting customer support.
COLD RESET	Letter A4	Resets the default paper size.
PAPER		

EIO menu

message	value	description
TCP/IP IPX/SPX	ENABLE CONFIGURE METHOD MANUAL SETTINGS ENABLE FRAME TYPE	Enable or disables the TCP/IP menu and set the TCP/IP protocol parameters. In the TCP/IP menu, you can specify BOOTP=YES or DHCP=YES for TCP/IP parameters to be automatically configured by a BootP or DHCP server when the printer is turned on. If you specify BOOTP=NO and DHCP=NO, you can manually set the following TCP/IP parameters from the LCD control panel: Each byte of the IP address (IP) Subnet Mask (SM) Syslog Server (LG) Default Gateway (GW) Idle Timeout period (default is 270 seconds; 0 disables the timeout) When setting IP numbers, press (up arrow button) to increase the number by 1. Press (select button) to make your selection. Enables the IPX/SPX menu, which you can use to set the IPX/SPX protocol parameters. In the IPX/SPX menu, you can specify the frame type parameter used on your network. The default is AUTO, which automatically sets and limits the frame type to the one detected. For Ethernet cards, frame type selections include EN_8023, EN_II, EN_8022, and EN_SNAP. For Token Ring cards, frame type selections include TR_8022 and TR_SNAP. In the PX/SPX menu for Token Ring cards, you can also specify NetWareSource Routing parameters, which include SRC RT=AUTO (default), OFF, SINGLE R, or
APPLETALK	ENABLE	ALL RT. Enables or disables the AppleTalk protocol
		Enables or disables the AppleTalk protocol.
DLC/LLC	ENABLE	Enables or disables the DLC/LLC protocol.
link speed	link speed Mode	Manually sets the link speed (10 or 100 Mbs) and mode (Full or Half Duplex).

cancelling a print job

You can cancel a current print job either through the LCD control panel or through the printer icon on the desktop.

To cancel a currently processed print job by using the control panel:

Press the CANCEL JOB button to cancel the current print job.

To cancel a print job by using the printer icon on the desktop:

Double-click the printer icon on the lower right corner of the computer screen.

Select the print job that you want to cancel in the printer window.

Click the Document Cancel menu command to cancel the print job.

Cancelling a print job does not affect the jobs waiting to be processed.

configuration pages

printer configuration page

The printer configuration page shows:

- **Printer information** : Such as firmware version number, model name, and memory installed.
- **Event Log** : Number of entries in use, maximum number of entries, and the last three events on the LCD control panel display, starting with the most recent.
- Installed Personalities and Options : Printer languages (personalities) in use, and contents of the printer's DIMM slots and EIO slots.
- Memory : Capacity of RAM and Automatic Resource Saving information.
- **Security** : Whether the LCD control panel is locked and whether a password is enabled.
- **Paper Trays and Options** : Printer's installed trays and their media type and size settings.

To print the configuration page:

Press (select button) on the LCD control panel.

Press (down arrow button) to highlight INFORMATION, and then press (select button) to select INFORMATION.

Press (down arrow button) to highlight PRINT CONFIGURATION, and then press (select button) to print the configuration page.

Note If an HP JetDirect print server is installed, two configuration pages print. If the auto-duplex unit is installed, do not remove the page from the output bin until both sides are finished printing.

onfig	juration page		
	Printer Information	Memory	1
	Product Name: hp business inkjet 3000 Printer Number: 0.36.2.0 Printer Serial Number: XXXXXXXXXXXX Firmware Detecode: 20020612 04.025.0 Service ID: 00000 PS Wait Time-out: 300 seconds Page Count: 410 Color Page Count: 319	Total Memory: 64 MB DMS: 6.00 Automatic Resource Saving Enabled	
	Event Log	Security	1 2/3
	Number of Entries in Use: 50 Naximum Number of Entries: 50 Three Most Recent Entries: Number Page Count Entry 50 410 67 8979 49 410 67 7132 48 410 67 8979	Control Panel Lock: NONE Control Panel Password: DISABLED	
	Installed Personalities and Options	Paper Trays and Options	
	PS (20010402) PCL (20010402) PCL (20010402) DIMM Slot 1: Empty DIMM Slot 2: Empty DIMM Slot 3: Empty DIMM Slot 4: Side 1: 8 MB Flash Side 2: 64 MB SDRAM EE0 1: HP JetDirect J6057A	Default Paper Size: LETTER Tray 1 Size: LETTER Tray 1 Type: PLAIN Tray 2 Size: LETTER CUSTOM Tray 2 Size: PLAIN	
	EIO 2: Empty Busicon Depta Color		
Ŀ			<u>.</u>

printer configuration page

JetDirect configuration page

The JetDirect configuration page shows:

- **HP JetDirect Configuration** : Information such as whether I/O card is ready, model number, hardware address, firmware version, port configuration.
- Security Settings : Information such as administrator's password, SSL/TSL.
- **Network Statistics** : Information such as total packets received, unicast packets received, and unsendable packets.
- **TCP/IP** : Information such as whether ready, host name, IP address, and subnet mask.
- **IPX/SPX** : Information such as initializing status, primary frame type, and network frame type.
- **Novell/Netware** : Information such as status, node name, netware mode, NDS tree name, NDS context, attached server, and SAP interval.
- AppleTalk : Information such as status, name, zone, and network number.
- **DLC/LLC** : Information such as whether ready or not.

hp business inkjet 3000 printers



HP JetDirect Configuration -----atus: I/O Card Ready Status: Status: Model Number: J6057A Hardware Address: 0001E6580AB7 Firmware Version: R.22.09 Port Config: 1001X HALF Auto Negotiation: O C22414490 C22 Date Manufactured: 11/2001 Auto Select Primary Frame Type: Rcvd 17 Network Frame Type Unknown EN_802.2 Novell/NetWare Admin Password: Not Specified SL/TLS: Disabled Oert Expires: Not Applicable SMMP Set Cntty Name: Not Specified Access List: Not Specified Status: 16 NOT CONFIGURED NPI58DA87 Node Name: NPI58DA87 NetWare Mode: Queue Server NDS Tree Name: NDS Context: Total Packets Received: 128 Unicast Packets Received: 35 Bad Packets Received: 0 Framing Errors Received: 0 Total Packets Transmitted: 90 Unsendable Packets: 0 Transmit Collisions: 0 Transmit Late Collisions: 0 Attached Server: SAP Interval: 60 sec AppleTalk -----Status: ----- TCP/1P ------Ready Ready Status: Name: hp business inkjet 3000 Zone: * Type 1: HP LaserJet Type 2: LaserWriter Network Number: 65281 Node Number: 7 Host Name: NP1580A87 1P Address: 205.240.230.226 Submet Mask: 255.255.255.255.258 Default Gateway: 205.240.230.129 Config By: DHCP DHOP Server: 205.240.230.129 TFIP Server: Not Specified Domain Name: 1fiw DNS Server: Not Specified VSS Server: Not Specified Jyslog Server: Not Specified Idle Timeout: 270 sec Web JetAdmin URL: Not Specified DLC/LLC Status: Ready

JetDirect configuration page

cleaning the printer

The hp business inkjet 3000 series printer does not require scheduled maintenance. However, you should clean the printer to keep it free of dust and debris.

guidelines for cleaning the printer

The following are the guidelines for cleaning the printer:

- Use a soft cloth moistened with mild detergent and water to clean the printer case.
- Do not touch the rollers as skin oil might result in poor print quality.

Warning Using other cleaners, such as alcohol or alcohol-based cleaners, might damage the printer.

steps for cleaning the printer

The following are the steps to clean the printer:

Turn the printer off.

Unplug the power cord.

Open the top cover of the printer.

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

Clean dust or dirt from the paper feed guides by using a dry, lint free cloth.

Close the top cover.

Plug in the power cord.

Turn on the printer.

caring for printheads

maintaining the printheads

The printheads for your printer have microscopic nozzles that can clog when exposed to the air for more than a few minutes. The printer is designed to prevent nozzles from drying out when the printer is idle and when it is turned off using the POWER button on the printer. A printhead that is not used for long periods of time can also clog, resulting in a noticeable decrease in print quality. To unclog the nozzles, clean the printheads.

message	description
CLEAN PRINTHEADS	nitiates the printhead cleaning process.
align printheads	nitiates the alignment process.

maintenance tasks using the LCD control panel

cleaning the printheads

Clean the printheads when lines or dots are missing from printed text or graphics. These defects occur when ink nozzles in the printheads are exposed to air for a prolonged period of time.

You need to perform basic maintenance tasks to improve print quality and the health of the affected printer parts.

To clean the printheads:

Press (select button) on the LCD control panel.

Press (down arrow button) to highlight CONFIGURE DEVICE, and then press (select button) to select CONFIGURE DEVICE.

Press (down arrow button) to highlight PRINT QUALITY, and then press (select button) to select PRINT QUALITY.

Press (down arrow button) to highlight CLEAN PRINTHEADS, and then press (select button) to select CLEAN PRINTHEADS.

aligning the printheads

The printheads are automatically aligned upon installation. Misaligned printheads produce ragged edges, stray dots, white lines, or banding on printouts. If your printouts look like the printheads are misaligned, you can align them through the LCD control panel.

To align the printheads:

Press (select button) on the LCD control panel.

Press (down arrow button) to highlight CONFIGURE DEVICE, and then press (select button) to select CONFIGURE DEVICE.

Press (down arrow button) to highlight PRINT QUALITY, and then press (select button) to select PRINT QUALITY.

Press (down arrow button) to highlight ALIGN PRINTHEADS, and then press (select button) to select ALIGN PRINTHEADS.

The printer prints a page with alignment patterns in 5 minutes.

replacing the printheads

Replace the printheads when the following messages appear on the LCD control panel:

- REINSTALL [COLOR] PRINTHEAD
- INCORRECT [COLOR] PRINTHEAD

To replace the printheads:

Make sure the printer is turned on.

Lift the printhead cover, and press the SELECT button on the LCD control panel.

Caution Do not attempt to force open the printhead latch. The printhead carriage will move to the left when the printer is turned on, enabling you to open the latch.

To open the latch, lift it from the rear (item 1 in the graphic) and then pull it forward and down to release the hook from the metal catch (item 2 in the graphic).

Lift and push the latch toward the back of the printer (item 3 in the graphic).

Remove each printhead from its package.

Remove the protective tape from each printhead.

Remove the plastic tab from each printhead by pulling down as indicated by the arrow on the tab.

Note The color order of the printheads does not correspond with the color order of the ink cartridges.



Insert printhead.

Press firmly on each printhead to ensure proper contact after installation.

Pull the latch all the way forward and down, and engage the catch with the hook (item 2 in the graphic). Push the latch towards the back of the printer. You might have to apply some pressure to close the latch.

Close the printhead cover and the ink cartridge cover.

Wait while the printer initializes the printheads. This can take a few minutes. When initialization is complete, an alignment page prints. If no alignment page prints, check to make sure there is media in the trays.

If the printer detects an error with a printhead, the carriage will move automatically when the printhead cover is opened.

If the printer does not detect an error or problem, the "tick" button needs to be pressed after opening the printhead cover to move the carriage.

caring for ink cartridges

maintaining ink cartridges

Ink cartridges generally do not require maintenance.

Note You do not have to replace all four ink cartridges when one of them is empty. Replace only the empty ink cartridge.

replacing ink cartridges -- when

The following LCD control panel messages are helpful when determining whether to install or replace ink cartridges:

- INSTALL <COLOR> CARTRIDGE . No ink cartridge is installed.
- NON HP <COLOR> CARTRIDGE . Non-HP cartridge is installed (appears first time only). Press SELECT to acknowledge.
- REINSTALL <COLOR> CARTRIDGE . Ink cartridge is present but the wrong one.
- ORDER <COLOR> CARTRIDGE . Ink level is low.
- **REPLACE <COLOR> CARTRIDGE** . Ink cartridge is empty.

replacing ink cartridges -- how

To replace an ink cartridge:

Make sure the printer is on (not necessary, but recommended).

Lift the ink cartridge cover.

Remove the new ink cartridge from its package.

Remove the empty ink cartridge by holding it firmly between the thumb and the forefinger and pull it out.



Align the colored arrows, and then insert the new ink cartridge into its color-coded slot. Press firmly on the cartridges until they snap into place to ensure proper contact. Close the ink cartridge cover.

ink terminology

- **Manufacture Date** Date on which the product begins its "life." Date on which the product "clock" starts.
- **Shelf Life** -- Length of time from Manufacture Date to Install-By Date. Maximum shelf life is 24 months.
- Install-By Date -- Date by which a PC/PH/IC should be installed in a printer to receive the full warranty period and optimal performance of the product.
- If cartridge is installed on or before Install-By Date, cartridge will expire after 30 months.
- If cartridge is installed after Install-By Date, cartridge will expire 54 months after manufacture date; ink cartridge will have an In-Printer Life shorter than 30 months.
- Cartridge cannot be used at or beyond 54 months after manufacture date.
- Printheads do not expire, but will likely wear out and fail over time (expected life ~2.5 years per printhead).
- In-Printer Life -- Length of time after the Install-By Date. Maximum In-Printer Life is 30 months from Install-By Date.
- **Warranty Interval** Begins on Manufacture Date and ends on End-of-Warranty Date. Warranty Interval is 6 months.
- **End-of-Warranty Date** -- The latest date that a product is **warranted** to be free from defects in material and workmanship, with no appreciable decrease in performance during the warranty period.
- End-of-Life Date A fixed date through which a product is **technically capable** of working with no appreciable decrease in performance.
- **Expiration Date** A printer-generated date calculated at the time a TIJ3.0 ink cartridge is installed.



navigating the user interface

Windows

The Properties dialog of an hp business inkjet 3000 printer driver includes the following tabs:

- **General** The General tab allows you to specify comments and separator pages, and print test pages.
- **Details** The Details tab allows you to specify ports, drivers, timeout settings, spool settings, and port settings.
- **Color Management** The Color Management tab allows you to control the color on your printer based on the type of media being used and the printer configuration.
- **Paper** The Paper tab allows you to specify quick sets; paper size, type, and source; print quality; and photo paper.
- Finishing The Finishing tab allows you to specify quick sets and document options.
- Effects The Effects tab allows you to specify quick sets, paper type, scaling, and watermarks.
- Color The Color tab allows you to specify quick sets and color options.
- **Basics** The Basics tab allows you to specify quick sets, number of copies, printing order, and orientation, and gain information about the printer driver.
- **Configure** The Configure tab allows you to specify printer model, paper handling options, paper destinations, paper sources, and other options.

HP Business Inkjet 3000 PCL 6 Pro	operties		? X
General Details Color Management	Paper Finishing Effects Co	lor Basics Configure	
HP Business Inkjet 3000 PCL	. 6		
Comment			
Separator page: (none)	<u>■</u> <u>B</u> rowse		
	Print <u>I</u> est Page		
	OK Cancel	Apply H	elp

HP Business Inkjet 3000 PCL 6 Properties	? ×
General Details Color Management Paper Finishing Effects Color Basics Configure	
HP Business Inkjet 3000 PCL 6	
Print to the following port:	
inkjet3000 (HP Standard TCP/IP Port) Add Port	
Print using the following driver:	
HP Business Inkjet 3000 PCL 6 New Driver	
Capture Printer Port End Capture	
Timeout settings	
Not selected: 15 seconds	
Transmission retry: 900 seconds	
Spool Settings Port Settings	
OK Cancel Apply H	elp

P Business Ink	et 3000 PCL 6 Properties	? ×
General Details	Color Management Paper Finishing Effects Color Basics Configure	
printer.	settings let you associate color profile(s) with your color Color profiles control the color on your printer based on the media being used and the printer configuration.	
Automatic:	Windows will automatically select the best color profile from the list of associated color profiles [Recommended]	
C <u>M</u> anuat	Manually select the default color profile for all output from this device from the list of associated color profiles	
	Default color profile: <none></none>	
Color Profiles c	urrently associated with this printer:	
	<u></u>	
	<u>_</u>	
	Add Bemove Set As Default	
	Tenero Servicesta	
	OK Cancel Apply H	ielp
IP Business Inkjet 3000 PCL 6 Properties - v1.0	? ×	
--	---	
General Details Color Management Paper Finishin Quick Sets Image: Color Management Paper Finishin Quick Sets Image: Color Management Paper Paper All Pages Image: Color Management Paper Paper All Pages Image: Color Management Paper Paper Size is: 8.5 by 11 inches Image: Custom Image: Custom Ivpe is: Image: Custom Image: Custom Source is: Auto Select Image: Custom	g Effects Color Basics Configure g Effects Color Basics Configure 8.5 by 11 inches 8.5 by 11 inches Print Quality Best Normal Details Fast Photo Paper Printing Photo Paper Printing	
OK	Cancel Apply Help	

P Business Inkjet 3000 PCL 6 Properties - v1.0	? ×
General Details Color Management Paper Finishing Effects Color Basics Configure Quick Sets	
Document Options Print on Both Sides Fip Pages Up Booklet Printing: Off It inches	
Pages per Sheet Print Page Borders Page Order: Right, then Down	
OK Cancel Apply H	elp

HP Business Inkjet 3000 PCL 6 Properties - v1.0	? ×
General Details Color Management Paper Finishing	Effects Color Basics Configure
Defaults Delete	8.5 by 11 inches
Eit To Page	
Erint Document On:	- <u>W</u> atermarks
Scale to Fit	(none)
100 % of Normal Size	- 1 mort 636 5 my
	Edit
(
ОК	Cancel Apply Help

HP Business Inkjet 3000 PCL 6 Properties - v1.0	? ×
General Details Color Management Paper Finishing Effects Color Basics Configure	
Color Options Print In Grayscale	
OK Cancel Apply He	lp

HP Business Inkjet 3000 PCL 6 Properties - v1.0		? X
General Details Color Management Paper Finishing Quick Sets Defaults Delete		
Copies 1 Copy Ordered Printing	8.5 by 11 inches	
Orientation ● Portrait ● Landscape ■ Rotated	About	
OK	Cancel Apply He	elp

HP Business Inkjet 3000 PCL 6 Propertie	s - v1.0	? ×
General Details Color Management Pape	r Finishing Effects Color Basics Configure Other Options More	
Paper Handling Options Duplexing Unit Allow Scaling from Large Paper Mopfer Enabled Optional Paper Destinations: (None) Optional Paper Sources: HP 700-Sheet Paper Tray		
	OK Cancel Apply He	:lp

Macintosh OS X

Printer: hp business inkjet 3000 Presets: Standard
Copies: 1 Collated Pages: O All From: 1 to: 1
Preview Save As PDF Cancel Print
Printer: hp business inkjet 3000 Presets: Standard
Pages per Sheet: 1 Layout Direction: Layout Direction: None
Preview Save As PDF Cancel Print

Printer:	hp business	inkjet 3000		•	
Presets:	Standard			;	
ıplex	•				
Print or	n Both Sides	Binding:	IJ	₽	
Preview	Save As PDF.)	G	ancel)	Pr

Printer:	hp business inkjet	3000	•
Presets:	Standard		•
Output Options			
Save as F	ile Format PD	F	Å T
(?) (Preview)	Save As PDF)	Can	cel Print

Presets: Error Handling	Standard	
	al reporting ailed report	
Tray Switching	J	
	ter's default o another cassette with the same alert	paper size

Printer:	hp busines	s inkjet 3000	•••••
Presets:	Standard		•
Paper Feed	•		
Feed pag	ges from:	Auto Select	
	Save As PD		(Cancel)

Printer: hp	business inkjet 3000	•
Presets: Sta	ndard	•
mage Quality	•	
Pr	int Quality Normal 🛟)
	<i>(b</i>)	
Preview Sav	e As PDF	(Cancel) Print

Printer:	hp business i	nkjet 300	00			
Presets:	Standard				•	
Color Options	•					
	🖂 Print	Color as	Grav			
	-					
		()		Reset All to	o Defaults	\supset
	<u></u>	~		G		
Preview	Save As PDF)		Canc	el Pr	int

	:)
Presets: Standard	•
nter Features	
Feature Sets: Set 1 🛟	
Job Retention: Off	
User Name: Use file sharing name 🔷 🛟	
Job Name: Use Document Name 🛟	
Watermark/Overlay: None	
Print Watermark: 🛛 All Pages 🔷 🛟	
Printer: hp business inkjet 3000	•
Presets: Standard	•
Presets: Standard Printer Features	_
Presets: Standard Printer Features Features 1 Features 2 Features 3 Features 4	2
Presets: Standard Printer Features Features 1 Features 2 Features 3 Features 4 Job Retention Off	2
Presets: Standard Printer Features Features 1 Features 2 Features 3 Features 4 Job Retention Off PIN (for Private Job) None	2
Presets: Standard Printer Features Features 1 Features 2 Features 3 Features 4 Job Retention Off PIN (for Private Job) None User Name Use file sharing name	2
Presets: Standard Printer Features Features 1 Features 2 Features 3 Features 4 Job Retention Off PIN (for Private Job) None	2

ummary	
Output Options	
Print to: Printer	
Layout	
Layout Direction: Left-Right-Top-Bottom	
Pages Per Sheet: 1	
Duplex	
Print on Both Sides: Off	
Copies & Pages	
Copies: 1, Collated	
Page Range: All Error Handling	
PPD for: HP Business Inkjet 3000 PS	

Macintosh OS 9

Printer: hp business inkjet 3000 😂	B.7.1 Destination: Printer
General 🗢	
Copies: 📘 🗌 Collated	
Pages: All	
🔾 From: 🔤 Ta	
Paper Source: All pages from:	Auto Select 🔷
First page from:	Tray 1 🗢
Remaining from:	Tray 1 🗘
Save Settings	Cancel Print

Printer: hp busi	ness inkjet 3000 Image: Second state
Print in:	🔾 Foreground (no spool file)
	Background
Print Time:	🔾 Urgent
	Normal
	○ Print at: 3:49 PM 🛓 09/22/2002 🔺
	O Put Document on Hold
Save Settings	Cancel Print

Printer: hp business ir	nkjet 3000 🜲	8.7.1 Destination: Printer 😫
Color Matching	÷	
Print Color:	Color/Grayscale	\$
Intent:	Auto selection	\$
Printer Profile:	O Use ColorSync Outp Generic CMYK P	
	Printer's Default	\$
Save Settings		Cancel Print
		071
Printer: hp business ir	nkjet 3000 🔶	8.7.1 Destination: Printer 🖨
Printer: hp business ir	nkjet 3000 ᅌ	
Cover Page		
Cover Page Print Cover Page: (• None	
Cover Page Print Cover Page: (
Cover Page Print Cover Page: (None Before Document 	Destination: Printer 🗲
Cover Page Print Cover Page: (None Before Document After Document	Destination: Printer 🗲

Printer: hp business inkjet 3000 Font Settings Font Documentation Annotate Font Keys Font Downloading	Destination: Printer \$
Changes from the Default Settings may affect p	rinting performance or appearance.
Preferred Format: 💿 Type 1 🔾 T	rueType
🗌 Always download needed fonts	
🗌 Never generate Type 42 format	Use Defaults
Save Settings	Cancel Print
Printer: hp business inkjet 3000	♦ Destination: Printer ♦
Job Logging	
If there is a PostScript™ error:	Job Documentation Folder —
No special reporting	
 Summarize on screen Print detailed report 	
Job Documentation	
Generate Job Copy	
🗌 Generate Job Log	Change
Save Settings	Cancel Print

Printer: hp business inkjet 3000
Layout 🗢
Pages per sheet: 1 1 Pages per sheet: 1 </th
Save Settings Cancel Print
Printer: hp business inkjet 3000 \$ Destination: Printer \$ Save as File \$
Format: PostScript Job
PostScript Level: Level 1 Compatible
Q Level 2 and 3
Data Format: 🛞 ASCII
O Binary
Font Inclusion: None
Save Settings Cancel Print

	8.7.1
Printer: hp business inkjet 3000	Destination: Printer
Watermark/Overlay	
Layer None Watermark	Font 🛛 Helvetica Bold 🗢 🛛 🙋
	Style Medium Outline 🜩
Pages 💿 All	Size 48 🜲
🔾 First Only	Angle 45° 🗢
Text Draft	Color Gray 🗢
Custom	Intensity Medium 🜩
Save Settings	Cancel Print
Printer: hp business inkjet 3000	♦ Destination: Printer ♦
Job Retention	
Job Retention	Destination: Printer
Job Retention	 Destination: Printer \$ User Name Use File Sharing Name Forms
Job Retention	 Destination: Printer + User Name Use File Sharing Name
Job Retention	 Destination: Printer \$ User Name Use File Sharing Name Forms
Job Retention	 Destination: Printer \$ User Name Use File Sharing Name Forms Job Name
Job Retention	 Destination: Printer \$ User Name Use File Sharing Name Forms
Job Retention	 Destination: Printer \$ User Name Use File Sharing Name Forms Job Name Use Document Name

Printer: hp business inkjet 3000 Printer Specific Options Print Color as Gray: Off Print Quality: Normal	8.7.1
Save Settings	Cancel Print
🗖 🧱 🖓 hp bus	iness inkjet 3000

🗆 🕲 h	np busi	ness in	kjet 3000 📃			
				Default I	O items Printer	
Name	Pages	Copies	Print Time			à
						4 >
					• •	11

	hp business inkjet 3000 Info
¢.	hp business inkjet 3000
Sho	w: General Information 😫
	Kind: desktop printer
	Type: LaserWriter 8
	Zone: *
Pr	i nter : hp business inkjet 3000
Ŷ	Yhere: Protable:
	Label: None 🗢
Com	ments:
⊢Pr	inting Memory Requirements
	Suggested Size: 350 K
	Minimum Size: 250 K
1	Preferred Size: 350 K

with the business inkjet 3000 Show: Status & Configuration Current Status: ◆ Configuration: (Sun, Sep 22, 2002, 3:48 PM) Printer Name: hp business ink jet 3000 > Zone: * * Product Name: hp business ink jet 3000 > PostScript™ Level: 3 > PostScript™ Version: 3010.107 > PostScript™ Revision: 0 > Resolution: 600 dpi > Total Memory Installed: 64 MB > Total Memory Available: 15.6 MB > Binary Communications Supported: Yes > Color Supported: Yes > PPD File: HP Business Ink jet 3000	Show: Status & Configuration Current Status: Current Status: Configuration: (Sun, Sep 22, 2002, 3:48 PM) Printer Name: hp business inkjet 3000 Zone: * Product Name: hp business inkjet 3000 PostScript™ Level: 3 PostScript™ Version: 3010.107 PostScript™ Revision: 0 Resolution: 600 dpi Total Memory Installed: 64 MB Total Memory Available: 15.6 MB Binary Communications Supported: Yes Color Supported: Yes	·	000 Info
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Printer Name: hp business inkjet 3000 Zone: * Product Name: hp business inkjet 3000 PostScript™ Level: 3 PostScript™ Version: 3010.107 PostScript™ Revision: 0 Resolution: 600 dpi Total Memory Installed: 64 MB Total Memory Available: 15.6 MB Binary Communications Supported: Yes Color Supported: Yes	Printer Name : hp business ink jet 3000 Zone : * Product Name : hp business ink jet 3000 PostScript™ Level : 3 PostScript™ Version : 3010.107 PostScript™ Revision : 0 Resolution : 600 dpi Total Memory Installed : 64 MB Total Memory Available : 15.6 MB Binary Communications Supported : Yes Color Supported : Yes PPD File : HP Business Ink jet 3000	Current Status: 🖓	
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hp business inkjet	hp business inkjet 3000 Info	
hp business inkjet 30	hp business inkjet 3000	
Show: Fonts	÷	
Albertus-ExtraBold Albertus-Medium		
AntiqueOlive		
AntiqueOlive-Bold		
AntiqueOlive-Italic		
Arial		
Arial-Bold		
Arial-BoldItalic		
Arial-Italic		
AvantGarde-Book		
AvantGarde-BookOblique		
AvantGarde-Demi		
AvantGarde-DemiOblique		
Bookman-Demi		
Bookman-Demiltalic		
Bookman-Light Bookman-Light		
Bookman-LightItalic		
CGOmega CGOmega-Bold		
CGOmega-BoldItalic		
CGOmega-Italic		
CGTimes		
CGTimes-Bold		
	Get Font List	
	Gerronceise	

advanced features

postscript printing

The following table identifies the operating system and PostScript driver correlation:

operating system	PostScript version number
Windows 9x, Me	Microsoft PScript Driver Version 4.00 and HP Business Inkjet 3000 PPD
Windows NT 4.0	Microsoft PScript Driver Version 4.01 and HP Business Inkjet 3000 PPD

operating system and	PostScript versions
----------------------	---------------------

printer feature	Windows 9x/Me	Windows NT
Paper type	Y	Y
Print quality	Y	Y
Print in grayscale	Y	Y
Handout (N-up printing)	Y	Y
Watermark	Y	Y
lob storage		Y

PostScript features available for each operating system

upgrading from an older version of Windows

After completing the upgrade to a new version of Windows, you must reinstall the PostScript printer driver.

setting paper type with the PostScript driver

operating system	location in printer driver
Windows 9x, Me	Paper tab, More Options
Windows NT 4.0	Advanced tab, Printer Features
Windows 2000, Windows XF	PAdvanced tab, Printing Defaults, Paper/Quality tab

setting paper type (Windows 9x) or media type (Windows NT 4.0)

paper-type options

HP Plain Paper; HP Premium Inkjet Paper; HP Premium Inkjet Heavyweight Paper, HP Photo Quality Paper, Semi Gloss; HP Photo Quality Paper, Matte; HP Premium Transparency; HP Premium Plus Transparency; HP Photo Paper, Glossy; HP Premium Photo Paper, Glossy; HP Premium Plus Photo Paper, Glossy; HP Premium Plus Photo Paper, Matte; HP Colorfast Photo Paper, Glossy; HP Brochure & Flyer Gloss; HP Brochure & Flyer, Matte. The Paper Type feature allows you to specify the type of paper on which you will be printing, such as plain paper or transparencies. Do not click HP Premium Transparencies when printing on regular paper.

Note HP does not recommend using stiff media, such as card stock.

setting print quality with the PostScript driver

operating system	location in printer driver
Windows 9x, Me	Paper tab, More Options
Windows NT 4.0	Advanced tab, Printer Features

print quality feature

print quality options

Best, Normal, Fast

Best prints the best quality possible. Normal is the recommended mode for everyday printing. Fast uses less ink, but the quality is not as high as normal.

print colors as gray feature

operating system	location in printer driver
Windows 9x, Me	Device Options tab, Printer Features
Windows NT 4.0	Advanced tab, Printer Features

print color as gray feature

options for printing in grayscale

On, Off

To activate grayscale printing, change the Print Color as Gray setting to on. This overrides your color settings and prints your documents in black and white (monochrome, grayscale). Grayscale means shades of gray, starting with white and ending with black. When a color document is printed in grayscale, colors are converted to their grayscale equivalents, which means that different colors are represented as different shades of gray.

This printer can produce up to 256 shades of gray. Color images that are printed as monochrome print faster and are easier to reproduce on monochrome devices such as copiers and fax machines. When Print Color as Gray is On, all of your documents will print as grayscale until the setting is changed to Off.

set pages per sheet

operating system	location in printer driver
Windows 9x, Me	Paper tab, Layout
Windows NT 4.0	Advanced tab, Printer Features

pages per sheet feature

options for setting pages per sheet

1, 2, and 4 pages per sheet

Windows NT 4.0 also offers 6, 9, and 16 pages per sheet, with all NT 4.0 settings in both portrait and landscape and rotated landscape orientation.

The Pages per Sheet option, sometimes called layout or n-up, specifies the number of pages to print on a single sheet of paper. The multiple pages appear decreased in size and arranged based on the number of pages printed on the sheet. The Pages per Sheet option does not work effectively with all page setup options. Some applications request a different resolution, page size, or paper source, or orientations for different pages of a document. Combining page setup options while using the Pages per Sheet option might produce unexpected print results.

watermark printing

The Watermark options allow you to specify that text be placed underneath (in the background) of an existing document. For example, you may want to have large gray letters reading Draft or Confidential placed diagonally across the first page or all pages of a document. You can also specify the font, size, angle, and style of the watermark.

operating system	location in printer driver
Windows 9x, Me	Device Options tab
Windows NT 4.0	Advanced tab, Printer Features

watermark printing feature

watermark/overlay

Options: None, Watermark, Overlay.

This selection specifies whether a watermark is printed. Overlay prints the watermark on top of any text or graphics, so that what appears beneath is not visible.

watermark page

Options: All Pages, First Page Only.

The First Page Only option prints only on the first page of the current document.

watermark

Options: Draft, Company Confidential, Company Proprietary, Company Private, Confidential, Copy, Copyright, File Copy, Final, For Internal Use Only, Preliminary, Proof, Review Copy, Sample, Top Secret, Urgent, Custom. The options listed are the available words that can be printed as a watermark. To turn watermark printing off, click None. If watermark printing is turned off, then the following watermark features are ignored.

watermark font

Options: Courier Bold, Times Bold, Helvetica Bold.

If you are printing a watermark, select one of the three font types.

watermark size

Options: 24, 30, 36, 42, 48, 54, 60, 66, 72, 78, 84, 90.

All option values are in degrees. The watermark can be positioned on the page at an angle in 15-degree increments. With zero (0) as normal readable text, the positive angles will rotate the text counter clockwise up to 90 degrees (vertical). The negative angles will rotate the text clockwise up to 90 degrees (vertical).

watermark style

Options: Narrow Outline, Medium Outline, Wide Outline, Wide Halo, Outline.

The style of the watermark defines the line thickness of the watermark word.

watermark color

Options: Gray, Red, Orange, Yellow, Green, Blue, Violet.

This sets the color of the watermark.

watermark intensity

Options: Darkest, Darker, Dark, Medium Dark, Medium, Medium Light, Light, Ligher, Lightest.

This sets the intensity of the watermark.

job storage

operating system	location in printer driver
Windows NT 4.0	Advanced tab, Printer Features

job storage feature

Options: Enabled, Disabled.

This allows you to store your print job on the printer's hard disk so you can access the print job later from the LCD control panel. The default setting is Enabled.

overview of toolbox

The Toolbox provides functions for trouble shooting and maintenance of HP Business Inkjet 3000. Toolbox supports shared connection, TCP/IP network connection, direct-connect over LPT, and USB using bidi Dot4 stack. The Toolbox needs to be installed on each machine that uses it.

user interface

Toolbox contains two tabs which displays the Printer status and Information.

status tab

Depending on the selected printer, this tab displays the status of the printer and the ink level information. Preferences can also be set for toolbox interface.

- **Printer selection:** Allows you to select a printer to monitor and lists printers that are compatible with the toolbox.
- **Status area:** Displays messages related to current printer status, such as Printing job, Top cover open, Ink Cartridge empty, etc.
- Ink information: Shows the ink levels for the four cartridges of the selected printer.
- **Preferences:** Allows you configure the toolbox behaviour for all printers that need to be monitored and maintained.

information tab

This tab provides the user with the functions to display printer Information. It also allows the user to get help on usage of printers.

- **Printer selection:** You can select the printer to view information.
- In the Embedded Web Server options group, Launch: The default web browser will be launched and will bring users to embedded web server in the printer when users click "Launch" buttoSn. If toolbox cannot resolve the port name of the current printer into an IP address, the button "Launch" will be disabled.
- In the Printer Information options group, MyPrintMileage: This button will launch the myPrintMileage data submission page in a browser window. Upon data submission the user is taken to the myPrintMileage Website.
- Printer Head Health: Displays a graphical interface of the print head condition.
- **Printer Hardware:** Displays the model, Firmware version, Duplexer info, hard disk info, RAM info and trays information.
- In the Help options:
- hp instant support: Launches the data submission page in a browser. Upon data submission, the user is taken to the hp instant support Web site.
- Register your printer: Provides online registration of the printer driver either by openning the link for online registration or by displaying a help screen, which contains the link.
- How do I: Provides help on maintenance activities of the printer.
- Troubleshooting: Provides helps on trouble shooting Printer, Printing, and Paper problems.
- Contact HP: Opens a help file that contains links to the HP Products and printer site for the specific printer model.

embedded web server

system requirements

To use the embedded Web server, you must have a TCP/IP-based network and a Web browser installed on your computer, either Netscape Navigator 4.7x or Microsoft Internet Explorer 5.0x and above. You do not need Internet access to open and use the embedded web server, however, some features will not be available.

Note The embedded web server can be accessed from any operating system that supports the TCP/IP protocol and a Web browser. The embedded Web server does not support IPX/SPX-based network printer connections and cannot be accessed with a parallel cable. You cannot view the embedded Web server pages from outside a firewall.

gaining access to the embedded web server

You can gain access to the embedded Web server in the following ways:

- From the Toolbox (Windows only): Launch the embedded Web server from the Information tab in the Toolbox. The default Web browser for the computer opens and displays the embedded Web server information.
- From a Web browser : In a supported Web browser on your computer, type the IP address assigned to the printer. For example, if the printer's IP address is 123.123.123.123.123, you would type http://123.123.123.123.123 into your Web browser.

If you do not know the IP address for the printer, it is listed on the printer configuration page. After you gain access to the embedded Web server, you can bookmark it so that you can return to it quickly in the future.

information pages

device status page

Device Status: This section displays the current status of the printer. This section also displays the (select button), PAUSE/RESUME, and CANCEL JOB buttons. When clicked, these buttons are equivalent to physically pushing the buttons on the printer.

Supplies: This section shows the life remaining of ink cartridges and printheads, with 0 percent representing a supply that is empty. This section also provides supplies part numbers. To order new supplies, click Order Supplies in the area on the left side of the window. To visit any Website, you must have Internet access.

Media: This section displays information about the installed trays, including the type and size of media loaded, as well as each tray's status. To change the tray settings, click Change Settings.

configuration page

Device Information: This section displays information about the printer, such as the model and serial number for the printer, the version number of the firmware, and the amount of memory installed.

Installed Personalities and Options: This section displays the version number of the printer's installed personalities, installed DIMMs and other storage devices, and printer security information.

Memory: This section displays the total amount of memory available for the printer, including the amount of driver workspace memory.

Paper Trays and Options: This section displays the default media size for each installed tray, and the total media capacity for each tray. It also shows whether an autoduplex unit is installed in the printer.

supplies status

This page displays gauges that indicate the remaining ink levels for each ink cartridge. It also provides supplies part numbers, the estimated number of pages remaining before supplies must be replaced, and how many pages have been printed so far. You can also find information on and links for ordering replacement supplies and recycling used supplies.

event log

This page shows the most recent events and errors in the printer event log. The most recent item appears at the top of the list.

usage page

Identification: This section displays the printer serial number, product name, and service ID. If the network administrator has assigned a name or asset number to the printer, these items are also displayed.

Usage Tools: This section shows how much of each media type and size has been used by the printer. It also lists how much media has been printed from each tray and how much ink has been used.

settings

The Settings pages of the embedded web server allow you to configure the printer from your computer. These pages can be password protected. Always consult with your network administrator before changing the printer configuration.

configure device

The Configure Device page displays the menus available in the printer's LCD control panel, except the service menu options. From the Configure Device page, network administrators can perform configuration functions from a computer instead of from the LCD control panel.

alerts

Notification Distribution Lists: This section allows you to add the e-mail addresses of the people who will receive electronic notification of printer events, such as ink supplies and media path events. You are provided with e-mail lists, which you can rename as needed.

You can also add up to two e-mail addresses to each list. In addition, this page lets you configure the outgoing e-mail server settings that the embedded web server uses when sending e-mail notification of printer events.

Select Events: This section allows you to select which types of printer events will prompt email notifications for each e-mail list. Click the type of printer event to set the threshold or condition under which an e-mail notification is sent. For example, for the Cartridge Low event, you can set the threshold to 20 percent. This means that e-mail notifications are sent to the e-mail lists you specified when an ink cartridge has 20 percent of its ink supply remaining.

email

Outgoing Mail: This section allows you to set the outgoing mail values for e-mail alerts.

Incoming Mail: This section allows you to set the incoming mail values to enable remote requests and commands sent to the printer.

AutoSend: This page allows you to automatically send printer usage information to HP. HP uses this information on the hp instant support page to help you understand your printing patterns. With this information, you can estimate the amount of ink and paper you use each month, which allows you to manage your printing supplies more effectively. If AutoSend is enabled, the embedded web server sends this usage information to HP.

Note Before you enable AutoSend, you must configure the outgoing e-mail server settings on the Notification page. HP will treat this information in the manner set out in the Hewlett-Packard Online Privacy Statement (http://www.hp.com/country/us/eng/privacy.htm).

Security: This section configures the password information and other security settings for the embedded web server and e-mail alerts. This information should be configured by the network administrator only.

other links

This page allows you to add additional links to the embedded Web server.

device information

This page displays information about the printer, such as the model and serial number for the printer, the version number of the firmware, and the amount of memory installed.

language

This page allows you to configure the language settings for the embedded Web server.

time services

This page allows you to define a network time server that the printer will use to synchronize its internal clock.

networking

The network pages of the embedded Web server allow the network administrator to configure the HP Jetdirect print server for the printer. This tab will not appear if the printer is connected to a network using anything other than an HP Jetdirect print server card.

Refer to the online help and to the HP Jetdirect Print Server Administrator's Guide for more information. This guide is located on the Starter CD.

other links

The following e-services are available from each embedded web server page. You must have an Internet connection to use these e-services. If you use a dial-up connection and did not connect when you first opened the embedded Web server, you must connect before you can visit these websites. Connecting might require that you close the embedded Web server and reopen it.

hp instant support

This page connects you to the HP website to help you find solutions. This service analyzes your printer error log and configuration information to provide diagnostic and support information specific to your printer. It also includes myPrintMileage, which helps you understand your printing patterns.

Access the hp instant support Web site to view the following information:

- Personalized printer information
- Printer usage pattern
- Error alerts
- Recommended actions to resolve errors
- Proactive announcement on release of firmware and drivers
- Direct access to printer reference materials, tips, and service options

myPrintMileage

This page keeps track of your printer usage information to help you plan the purchase of supplies. myPrintMileage displays the amount of ink you have used, whether you use more black or color ink, the average amount of media you use per month for each media type, the number of pages printed, and the estimated number of pages you can print with the amount of ink remaining.

myPrintMileage web pages are dynamically created.Bookmarking this site and connecting using the bookmark will not display the most current information. Instead, connect from the Toolbox by clicking myPrintMileage on the Information tab.

order supplies

This page shows the remaining life of the different ink supplies and the links to the HP website for ordering supplies, such as ink cartridges and print media.

product support

This page connects you to the support site for the printer. From this site, you can search for help regarding general topics.

hp web jetadmin

This page connects you to hp web jetadmin information.

hp instant support

hp instant support is a Web-based tool that provides you product-specific services, troubleshooting tips, and information about your printer's ink and media usage. With this information, you can diagnose and solve printer problems, and manage your printing activities and printer supplies more effectively.

hp instant support provides the following information about your printer:

- Notification of printer driver and firmware updates. When a firmware or driver update for your printer is available on the HP website, a message appears on the hp instant support homepage. Click the link within the message to go directly to the printer drivers downloads section of the HP website.
- **Resolutions for specific printer errors.** hp instant support provides immediate access to information that can help you resolve error messages specific to your printer. To see a description of the problem, as well as recommendations for solving or preventing the problem, click the link within the message. To see a list of past printer errors, click alerts on the left side of the hp instant support page.
- Managing ink and media usage (myPrintMileage). myPrintMileage helps you manage your printing activities and printer supplies. This tool tracks your printer usage information to help you plan the purchase of supplies.
- **Obtaining support services.** HP offers a variety of support services that can help you maintain your printer. hp instant support creates a list of the support services available for your printer. To learn more about these services or to purchase a service, click the appropriate link.
- Easy access to troubleshooting tips . To help you quickly resolve printer problems or prevent some problems from happening, hp instant support provides tips that are customized for your printer.

using hp instant support

You can use hp instant support from the Toolbox (if the computer is running Windows and the printer is connected to a network) or the embedded Web server.

Note Because Web pages used to display hp instant support (as well as myPrintMileage) are dynamically created, creating a bookmark or favorite for these Web pages and connecting using this bookmark or favorite will not display the most current information. Instead, connect from the embedded Web server or from the Toolbox.

to launch hp instant support from the Toolbox (Windows only)

Note To launch hp instant support from the Toolbox, the printer must be connected to a network.

Open the Toolbox.

On the Information tab, click hp instant support. The default Web browser opens and displays the current hp instant support information for your printer.

to launch hp instant support from the embedded Web server

Open a Web browser and type the IP address for the printer in the address box. The IP address is shown on the Configuration page.

In the Other Links section of any embedded Web server page, click hp instant support.

security and privacy

To use this tool, detailed information, such as serial number, error conditions, and status, is sent to HP. Hewlett-Packard respects your privacy and manages this information according to the guidelines outlined in the Hewlett-Packard Online Privacy Statement (http://www.hp.com/country/us/eng/privacy.htm).

Note To view all the data that is sent to Hewlett-Packard, select Source (for Internet Explorer) or Page Source (for Netscape) from the View menu in your Web browser.

mobile printing

driver

This printer comes with the hp mobile printing driver. The hp mobile printing driver loads on any portable PC and enables the user to print to any networked PostScript-enabled printer. Faster and far less complicated than adding a printer driver using Microsoft's "Add Print Wizard," the hp mobile printing driver is always within your Microsoft Windows application so you can achieve printing success in seconds with no technical capability required.

uses

Use the hp mobile printing driver to do the following:

- print from a conference room
- print at a satellite office
- print remotely from a home office

procedure

To use the hp mobile printing driver from within a Microsoft Windows application:

Initiate the standard "file print" routine.

Select HP Mobile Printing Driver from the list of printers.

Enter the printer's IP address or network path.

Send the print job.

Success with the hp mobile printing driver requires the user to know the printer's IP address or network path. This information can be obtained from the printer's LCD display or by printing a configuration page found in the printer's menu options. Some businesses have affixed labels with this information to their printers to expedite user access.

details

Additional information about hp mobile printing is available online at www.hp.com/go/mobileprintingdriver

changing default software settings

You can change printer settings from the LCD control panel, from the printer driver, and from a software application. If you want printing options to be available only in a particular application, change the settings from this application. After you quit the application, the printer settings will return to the defaults configured in the printer driver.

Note Settings in a software application always take precedence over settings in the printer driver or the LCD control panel.

If you want printing options to be available in all software applications you use on the computer, change the default settings in the printer driver.

change printer settings from a software application

To change printer settings from a software application, from the **File** menu, click **Print**, and then click **Setup** or **Properties**.


change global printing settings from the printer driver

If you want common printing options for all applications on the computer, change the default settings in the printer driver. The steps to change settings from the printer driver are:

Click Start , point to Settings , and then click Printers

Right-click the printer icon, and then choose the option for your operating system:

- For Windows 95, Windows 98, Windows ME, and Windows XP, click Properties.
- For Windows NT 4.0, click Document Defaults or Properties.
- For Windows 2000, click Printing Preferences or Properties.

Change the desired settings, and then click **OK**

change global printing settings from the printer driver in Mac OS 8.6 - 9.2.2

If you want common printing options for all applications on a Macintosh computer, change the default settings in the printer driver. The steps to change settings from the printer driver are:

	Cho	oser 📃 🗧
AppleShare Laser Writer 8		Select a PostScript Printer: HP Business Inkjet 2280TN hp business inkjet 3000 HP LaserJet 4050 Series HP LaserJet 8100 Series Print Biology Series Print Biology Ser

From the Desktop, click the Apple Menu, select the Chooser, select LaserWriter 8, select the HP Business Inkjet 3000 in the printer list to the right, click the Setup button below the printer list. A dialog window will open. Click on the Configure Button.

From the Configure PPD dialog window, there are 3 options and pull down menus to configure the PPD. These menus are Memory Configuration, Duplex Printing (for 2 sided printing) and Printer Disk. If more memory has been added, the Duplex Unit has been installed or a Hard Disk has been installed, you will need to manually modify these selections to match your upgraded HP Business Inkjet 3000 to take advantage of some of the upgraded features.

After changing the settings, click OK to return to the Chooser.

Current Printer Description File (PPD) Selected: "HP Business Inkjet 3000" Installable Options
Memory Configuration: 64 MB Duplex Unit (for 2-Sided Printing): Installed Printer Disk: Not Installed
Cancel OK

change global printing settings from the printer driver in Mac OS X - 10.2

If you want common printing options for all applications on a Macintosh computer, change the default settings in the printer driver. The steps to change settings from the printer driver are:



From the Desktop, double click Macintosh HD (or the name of your Hard Drive), and Applications : Utilities : and open the Print Center application.

A window will open showing all of the installed printers on your Macintosh. Select the HP Business Inkjet 3000.

Printers	Jobs	Windo
Show P	rinter L	ist
Make D	efault	ЖD
Add Pri	nter	
Delete	Printer	
Configu	ure Prin	ter
Show Ir	ıfo	96I 🕟
Show Jo	obs	жо
Stop Jo	bs	

Go to the Menu bar and select Printers, choose the Show Info (Command I) option. A dialog window will appear showing Printer Info. A pull down menu under the printer name will be pre-selected to PPD. Select this menu and choose "Installable Options"

There will be 3 options available to configure in this dialog window. A pulld down menu to change the amount of RAM, a check box to select whther or not the Duplex unit is installed, and a pull down menu to select if a hard disk is installed.

If you have already installed the printer driver prior to installing any of the above options in your HP Business Inkjet 3000, you will need to manually configure these options to match your printer to take advantage of some of the installed features you have added. If you installed any of the options prior to installing the printer driver under Mac OS X or 10.2, you will not need to configure any of these options as it was automatically configured for you on installation.

-	Printer Info
	hp business inkjet 3000
N	Installable Options
h	Memory Configuration: 64 MB
	Duplex Unit (for 2-Sided Printing)
	Printer Disk: Not Installed

troubleshooting advanced printer problems

symptom	solution
symptom	
problems with the printer	If the printer is used on a network, see the HP Jetdirect Print Server Administrator's Guide on the Starter CD.
the printer is not	check the printer LCD control panel for error
responding	messages Make sure the ink cartridges, printheads, and print
	media are loaded correctly. Also make sure that the printer
	cable is firmly connected from the printer to your computer and
	that the power cord is connected from your printer to the power receptacle.
	check the printer setup Ensure that the correct port (LPTx,
	where "x" is the port number) is selected and that the printer is
	connected directly to your computer. If your printer is connected to a switch box, complete one of the following tasks, and then
	try printing again:
	Make sure that you have selected the correct switch.
	Connect the printer directly to the computer without the switch box.
	check the power
	f the printer is turned on, make sure your printer is selected as
	the current or default printer. For information about setting the
	default printer, see the online Help for your computer's operating system.
	If the printer is not turned on, press (power button) on the
	printer. After a brief printer startup, you should see a steady green light (the Ready light) on the LCD control panel.
	Note If you tried to print when the printer was turned off, an alert message should have appeared on your computer. If the printer was off and you did not see a message when you tried to print, the printer setup might be incorrect. Uninstall the printer software by running the uninstaller program in the printer's program group or the Add/Remove Programs utility (Windows) or by selecting the uninstall option in the Installer (Mac OS). Then reinstall the software that came with your printer.
the printer Attention light blinks	This indicates an event that requires user intervention or an error has occurred. For example, a printer cover might not be closed properly, or the carriage might be jammed. check the LCD control panel If the message shows a printer error, see "LCD control panel messages." Follow the recommended actions to resolve the error.

	restart the printer If the LCD control panel displays the message XX.XXXX SERVICE ERROR, the printer might have a hardware problem. Press and hold (power button) to turn off the printer. Wait a few seconds, and then turn it on again. In most situations, this action solves the problem. If the message persists, your printer might need service. Write down the error code, and then go to hp instant support to learn more about possible causes for the message. See "hp instant support" for more information.
the printer Ready	the printer is offline and the LCD control panel
•	displays the message PAUSED Press (pause/resume
-	button) on the printer. The printer resumes printing the current
lurned on	job or returns to the READY state.
the printer shuts	check the power Make sure the power cord is connected
down	firmly to the printer and to a working power receptacle, and
unexpectedly	that the printer is turned on. The Ready light on the LCD control
blickpeciedly	panel should be green. Press and hold (power button) to turn
	off the printer, and then turn it on again.
nothing is printed	be patient Complex documents that contain many fonts,
	graphics, and color photos take longer to begin printing. The
	LCD control panel displays the message PROCESSING JOB
	and the Ready light blinks when the printer is processing
	information to be printed.
	check the power Make sure the power cord is connected
	firmly to the printer and to a working outlet, and that the printer
	is turned on. The LCD control panel should display some
	message and the Ready light should be green. Press and hold
	(power button) to turn off the printer, and then turn it on again.
	check the interface cable Make sure the interface cable
	(USB, parallel, or network) is connected properly.
	check the print media Make sure media is loaded correctly
	in the tray and that the print media is not jammed in the printer.
	try printing a demo page
	Press (select button) on the LCD control panel.
	Press (down arrow button) to highlight INFORMATION, and
	then press (select button).
	Press (down arrow button) to highlight PRINT DEMO, and then
	press (select button) to print the Demo page.
	check the printer setup Make sure the printer is selected as
	the current or default printer. Also, if your computer is running
	Windows, make sure that Pause Printing is not selected. Click
	Start, point to Settings, and then click Printers (Windows 98,
	Windows Millennium Edition, Windows NT 4.0, and Windows
	2000)Or- Click Start, and then click Printers and Faxes
	(Windows XP). Right-click the printer icon you want to check,
1	and then make sure that Pause Printing is not selected.

	the print to file option is selected in the printer driver If Print to File is selected in the printer driver, the print job will not print.
	Windows : In the printer driver, check that the Print to File option is not selected. From the software application, on the File menu, click Print. Make sure the Print to File option is not selected.
	Macintosh : On the main pop-up menu in the Print dialog box, make sure the Print to file option is not selected.
	check the network setup Make sure that your printer is properly set up in the network environment.
printer takes a	check your system configuration Make sure your
	computer meets the designated system requirements. Although
job	the printer is designed to function with a computer that meets the minimum system requirements, printer performance is optimized with a computer that meets the recommended system requirements.
	make sure the computer has sufficient hard-disk
	space If you are printing graphics-intensive files, make sure you have enough hard-disk space.
	make sure the port setting configuration in the
	computer is set to ECP (Windows 98 only) See the computer's manual for information on how to change your port setting, or contact your computer manufacturer.
	make sure the computer has enough resources
	available (Windows only) If less than 80 percent of the computer resources are available, printing could be significantly slower. To make more computer resources available, close all unused applications and resend your print job. If necessary, restart your system, and then resend your print job.

problems with the printer

symptom	solution
blank page is	check the LCD control panel for error messages
printed	
	check the printheads for tape Make sure you have
	removed the printhead protective tape from each ink nozzle.
	check the printer setup Make sure your printer is selected
	as the current or default printer.
	check the parallel port on your computer (Windows
	only) If you are using a parallel interface connection, make
	sure the printer is connected directly to the parallel port. Do not
	share the port with other devices, such as a Zip drive.
	make sure the media size or orientation settings are
text or graphics is	correct Make sure the media size and page orientation
wrong	selected in the software application match the settings in the
	printer driver.
	make sure the media is loaded correctly If everything on
	the page is slanted or skewed, check the following:
	Make sure the media width and length guides fit snugly but
	gently against the edges of the stack.
	If the optional multipurpose tray is installed in the Tray 1
	location, make sure that no more than 100 sheets of media or
	20 transparencies (up to 11 mm or 0.43 inch, stacked) are
	loaded in the tray.
	For Tray 2, make sure that no more than 300 sheets of media
	(up to 30 mm or 1.2 inches, stacked) are loaded in the tray.
	Tray 2 can hold a maximum of 50 transparencies.
	For optional Tray 3, make sure that no more than 700 sheets of
	media (up to 70 mm or 2.8 inches, stacked) are loaded in the
	ray. Tray 3 can hold a maximum of 50 transparencies.
	make sure the margin settings are correct If the text or
	graphics are cut off at the edges of the page, make sure the
	margin settings for the document do not exceed the printable
I ·	area of your printer.
text or graphics are cut off at the	make sure the orientation settings are correct The
	page orientation selected might not be correct for the document
edges of a page	you are printing.
	make sure the margin settings are correct If the text or
	graphics are cut off at the edges of the page, make sure the
	margin settings for the document do not exceed the printable area of your printer. The document margins must match or
	exceed a margin setting of 4 mm (0.13 inch).

	make sure the content fits on the page Content that is cut off might be outside the printable area. Or, the size of the document you are printing is larger than the media size in the main tray. Check if the layout of the document you are trying to print will fit on a media size supported by the printer, and then oad the correct media size. Make sure to select the correct page orientation. make sure the media is loaded correctly Make sure the
	media width and length guides fit snugly but gently against the edges of the stack. Also, make sure that the correct page orientation is selected.
	the software application cannot interpret print
	settings properly On the Starter CD, check the readme file for known software conflicts. Otherwise, check your software application manual, or contact the software manufacturer for more specific help for this problem.
the wrong fonts	make sure that fonts are used correctly in the
are printed	document Make sure you correctly apply the font you want to use. For example, in a graphics application, place the words in the desired size; do not enlarge by dragging and sizing.
	make sure the font is available in your computer The
	fonts used in the document might not match the fonts currently available in your computer or the type of font used is not designed to be printed. Make sure the font is available in your software application font selection box, and make sure it is a TrueType font. TrueType is a technology that can create fonts of any sizes from a basic font outline. TrueType fonts are scalable. They can be scaled at any time for use on the computer screen or the printer. This is the standard font-scaling technology in Windows.
	the wrong printer driver is selected Make sure your printer is selected as the current or default printer. For information about setting the default printer, see the online Help for your computer's operating system.
	the software application is conflicting with the printer The problem is likely a conflict related to the software application you are using. Contact the manufacturer of your software for help. On the Starter CD, see the readme file for a list of known conflicts with popular software applications.
text is jagged at the edges	make sure the correct type of font has been chosen Some software applications offer custom fonts or use bitmap images of text that have jagged edges when skewed, enlarged, or printed. By using TrueType fonts, you can ensure that the printer is able to print smooth fonts. When selecting a font, look for the TrueType icon.

	un incorrect modia turno in hotma and This sature
	an incorrect media type is being used This printer is designed to work well with most office paper types or quality 25
	percent cotton bond paper. Because it uses ink to produce an
	mage, media that accepts ink well produces the best results.
	Media that is heavily textured or does not accept ink well can
	cause graphics and text to print poorly. It is best to test a variety
	of media types before buying large quantities. Find a media
	ype that works well and is easy to purchase. HP Inkjet media
	are designed for the best quality results. To determine if the
	media type is the cause of the problem, try printing the same
	document on a type of media that has previously worked well
	with your printer.
	the software application is conflicting with the printer
	The problem is likely a conflict related to the software
	application you are using. Contact the manufacturer of your
	software for help. On the starter CD, see the readme file for a
	ist of known conflicts with popular software applications.
the printout is	the margin settings might be wrong The document
incorrect or part	margins must match or exceed a margin setting of 4 mm (0.13
of it is missing	inch).
	color print settings might be wrong The grayscale
	printing option is probably selected in the printer driver.
	Windows : In the printer driver, check that the color option is not
	set to print in black and white or grayscale. From the software
	application, on the File menu, click Print, and then click Setup or
	Properties. Make sure the Grayscale option is not selected.
	Macintosh OS 8.6 to Mac OS 9.2.2 : On the main pop-up
	menu in the Print dialog box, select Color Matching. Make sure
	he Black and White or Grayscale options are not selected on
	the Print Color pop-up menu.
	Macintosh OS X : On the main pop-up menu in the Print dialog
	box, select HP Image Quality. Make sure the Print Color as Gray
	option is not selected.
	the wrong printer driver is selected Make sure your
	printer is selected as the current or default printer. For
	information about setting the default printer, see the online Help
	or your computer's operating system.
meaningless	a cable connection is poor A common cause for nonsense
characters are	characters is a poor cable connection between the printer and
printed	computer. Make sure the cable connection at both ends is good
	and that the cable is securely fastened.
	the system needs to be restarted Turn off the computer.
	Press and hold (power button) to turn off the printer for a few
	seconds. Turn them both back on, and then try printing again.
	the wrong printer driver is selected Make sure your
	printer is selected as the current or default printer. For
	information about setting the default printer, see the online Help
	or your computer's operating system.
	• • • • • • •

the document file is damaged Occasionally, a document
file can become damaged. If you can print other documents
from the same software application, try to print using a backup
copy of your document, if available.
printout is slanted or skewed If media is twisting as it
leeds or margins appear crooked, the media guides might not
be pressed snugly but gently against the stack. Both the media
length and width guides must be gently pressed against the
stack.

problems with printing

troubleshooting supplies usage

The information on the Supplies Status Page is useful for monitoring supplies and ordering new supplies.

- **Ordering Information** : Shows the website address for ordering supplies, and where to locate phone numbers for ordering supplies from HP.
- **Supplies Status Information** : Shows the estimated remaining life (represented in graphical form as a gauge) for the supplies. This item shows ink cartridge serial numbers, the expiration date, maintenance information, and whether ink levels are low. It also shows printhead serial numbers and printhead health information.

To print a Supplies Status Page:

- Press the select button on the LCD control panel.
- Press the down arrow button to highlight INFORMATION, and then press select button to select INFORMATION.
- Press the down arrow button to highlight PRINT SUPPLIES STATUS PAGE, and then press the select button to print the Supplies Status Page.

troubleshooting media-related problems

printing problems

blank page is printed

- Check the LCD control panel for error messages.
- Check the printheads for tape: Make sure you have removed the printhead protective tapes that cover the ink nozzles.
- Check the printer setup: Make sure your printer is selected as the current or default printer.
- Check the parallel port on your computer (Windows only): If you are using a parallel interface connection, make sure the printer is connected directly to the parallel port. Do not share the port with other devices, such as a Zip drive.

media-handling problems

media-feed problems

- Print media is jammed in the printer: Check for jams.
- Printer feeds multiple sheets: Make sure that only one type of media is loaded in each tray.
- Media is not loaded correctly: Make sure the media width and length guides fit snugly against the edges of the stack. Also, make sure that the correct page orientation is selected.
- Trays or other components are not inserted properly: Check that all trays and covers are completely closed. Make sure the simplex unit or auto-duplex unit is installed properly.

tray cannot be inserted

• Something in the printer is blocking the tray: Check the slot where the tray fits to ensure that nothing is broken or jammed that would prevent the tray from being inserted. Check the cams (two small levers inside the tray drawer). If these cams get pushed in while the tray is out of the printer, the tray will not close completely when it is reinserted. If this happens, pull out the tray half-way, and then push it in again until it closes completely.

media is not picked up from a tray

- The tray size or type settings configured in the LCD control panel do not match the size or type selected in the printer driver. Make sure the correct media is loaded in the tray and the media width and length guides are pressed snugly against the stack. Next, check that the media size and type are set correctly in the LCD control panel.
- The media width guide is pressed too tightly against the stack: Check that the media width guide is pressed snugly but gently against the stack.
- The media stack exceeds the maximum stack height for the tray: Check the yellow label inside Tray 2 and Tray 3 for the maximum stack height. If the media exceeds this level, remove some of the media from the tray.
- Media is curled: Make sure the media you are using is not curled. Uncurl the media by gently bending it in the opposite direction of the curl. If media has been exposed to a humid environment, it might curl. Media should be stored in a cool, dry place.

• The media lift plate inside the tray is stuck in the lowest position: Pull out the tray halfway, and then close the tray completely. If the media still is not picked up from the tray, open the tray and reposition the media. Make sure the media width and length guides fit snugly against the stack. Firmly close the drawer.

media is not picked up from Tray 1 or the optional multipurpose tray

- Too much media is loaded: Tray 1 is designed to hold a single sheet of media. The optional multipurpose tray is designed to hold up to 100 sheets (10 mm or 0.4 inch, stacked) of standard weight media.
- Media is wrinkled or bent: Make sure the media is not wrinkled or bent. Remove media from Tray 1 or the optional multipurpose tray after use. Leaving media in the tray for several hours can cause the media to bend.
- Photo paper is loaded face-down: Because Tray 1 and the optional multipurpose tray provide a straight-through paper path, media must be loaded with the side to be printed on facing up.
- Media is not positioned correctly in the optional multipurpose tray: When loading media in the optional multipurpose tray, place the stack against the left edge of the tray, and then slide the media down to rest in the tray. Otherwise, the media size might not be detected properly. Check that the multipurpose tray width and length quides fit snugly against the media stack.

media output problem

• Pages are falling off the printer: Make sure the output bin extension is fully extended. The output bin holds about 300 sheets of media. Remove excess media from the output bin.

media-feed problems

incorrect media type or size

- The LCD control panel displays the message NOT FOUND [TRAY] [MEDIASIZE] [MEDIATYPE]. PRESS TO CONTINUE: The media loaded in a tray is not the same as the media selected in the printer driver or configured in the LCD control panel. To resolve a media mismatch, load the correct media in the designated tray and press the select button to print the entire print job, or press CANCEL JOB to delete the print job from the print queue. If you do not press the select button or CANCEL JOB, and the printer has selected the tray automatically, the printer attempts to draw media from the other tray. If the other tray is loaded with the correct size of media or media that is larger than the print job, the print job prints correctly.
- The LCD control panel displays the message NOT FOUND [TRAY] [MEDIASIZE] [MEDIATYPE]. PRESS TO CROP AND CONTINUE: The tray is loaded with media that is too small. If you press the select button, the printer crops the print job to fit it on the available media.
- To avoid media mismatches, find out which tray contains the media on which you want to print, and then select that tray in the printer driver.

media and carriage jams

tips for avoiding jams

- Make sure the printhead latch is properly engaged.
- Make sure nothing is blocking the paper path.
- Do not overload the trays. Tray 1 feeds a single sheet of media at a time. Tray 2 holds up to 300 sheets of media, and Tray 3 holds up to 700 sheets of media. The optional multipurpose tray holds up to 100 sheets of media. Be sure the media does not exceed the maximum stack height as indicated on the labels in each tray.
- Load media properly.
- Do not use media that is damaged, curled, or wrinkled. Do not use media with cutouts or perforations or media that is heavily textured or embossed.
- Avoid media that is too thin, has a slick texture, or "stretches" easily. Such media does not feed properly through the printer.
- Always use media that conforms with that listed in "Media and paper-handling specifications."

to clear jams

Because media may be jammed in more than one location inside the printer, complete all the steps below to ensure that all jams are removed.

Note: If the media tears when you try to remove it, make sure that all media fragments are removed from the printer before resuming printing.

Remove all media from the output bin.

Open the top cover to locate the jam. When you lift the top cover, the carriage should return to its position on the left side of the printer. If the carriage does not return to this position, move the carriage to either side.

Free any wrinkled media and pull the sheet toward you through the top of the printer.

Pull out Tray 1 and place it on a flat surface. Remove any wrinkled or curled media from the tray.

Grasp any jammed or torn media by both corners and pull up and out of the printer. Replace Tray 1.

Pull out the output bin and set it aside.

Pull out Tray 2 and place it on a flat surface. Remove any wrinkled or curled media from the tray.

If Tray 3 is installed, grasp the handle below the tray and pull it out until you feel some resistance. Use your other hand to grasp the side of the tray and lift up slightly. Remove Tray 3 from the printer and place it on a sturdy, level surface that completely supports the tray. Remove any wrinkled or curled media from the tray.

Caution Tray 3 can be heavy. Use two hands when removing and inserting Tray 3.

Remove the simplex unit or auto-duplex unit (whichever your printer has installed). To remove the simplex unit or auto-duplex unit, grasp the handle below the unit and pull it out of the printer. Set the unit aside.

Warning The printer contains metal parts that might be hot. Do not touch the metal parts inside the printer.

Look inside the printer. Grasp any jammed media with both hands and pull it towards you.

Slide the simplex unit or auto-duplex unit firmly back into the printer until it snaps into place.

Reinsert Tray 2 and Tray 3 into the printer. Use two hands to support Tray 3 while reinserting it.

Place the output bin on top of the Tray 2 case and push it into the printer until both sides snap into place.

After you clear the jam, close all trays and the top cover, and press (select button).

After the jam is cleared, the printer will attempt to reprint jammed pages when sufficient memory is available.

jam recovery

This printer automatically provides jam recovery, a feature that allows you to set whether the printer should attempt to automatically reprint jammed pages. The options are:

- AUTO Printer will attempt to reprint jammed pages when sufficient memory is available. This is the default setting for the printer.
- OFF Printer will not attempt to reprint jammed pages.
- ON Printer will reprint any jammed page. Additional printer memory is required for this setting, so overall printer performance may suffer.

To improve print speed and increase memory resources, you may want to disable jam recovery. If jam recovery is disabled, the pages involved in a jam will not be reprinted.

Note During the recovery process, the printer may reprint several good pages that were printed before the jam occurred. Be sure to remove any duplicated pages.

to change jam recovery settings

Press (select button) on the LCD control panel.

Press (down arrow button) to highlight CONFIGURE DEVICE, and the press (select button) to select CONFIGURE DEVICE.

Press (down arrow button) to highlight SYSTEM SETUP, and then press (select button) to select SYSTEM SETUP.

Press (down arrow button) to highlight JAM RECOVERY, and then press (select button) to select JAM RECOVERY.

Press (down arrow button) to highlight the desired setting, and then press (select button) to save the setting.

symptom	solution
printout is slanted	make sure media guides are snug If media is twisting as
or skewed	it feeds or margins appear crooked, the media guides might no
	be pressed snugly but gently against the stack. Both the media
	length and width guides must be gently pressed against the
	stack.
placement of the	make sure the media size or orientation settings are
	correct Make sure the media size and page orientation
wrong	selected in the software application match the settings in the
5	printer driver.
	make sure the media is loaded correctly If everything o
	the page is slanted or skewed, check the following:
	Make sure the media width and length guides fit snugly against
	the edges of the stack.
	For the optional multipurpose tray, make sure that no more than
	100 sheets of media or 20 transparencies (up to 10 mm or 0.3
	inch, stacked) are loaded in the tray.
	For Tray 2, make sure that no more than 300 sheets of media
	(up to 30 mm or 1.18 inches, stacked) are loaded in the tray.
	For Tray 3, make sure that no more than 700 sheets of media
	up to a 70 mm or 2.80 inches, stacked) are loaded in the tray
	Trays 2 and 3 can hold a maximum of 50 transparencies.
	make sure the margin settings are correct If the text or
	graphics are cut off at the edges of the page, make sure the
	margin settings for the document do not exceed the printable
	area of your printer.
text or graphics	make sure the orientation settings are correct The
are cut off at the	page orientation selected might not be correct for the document
edges of a page	you are printing.
	make sure the margin settings are correct If the text or
	graphics are cut off at the edges of the page, make sure the
	margin settings for the document do not exceed the printable
	area of your printer.
	make sure the content fits on the page Content that is
	cut off might be outside the printable area. Or, the size of the
	document you are printing is larger than the media size in the
	main tray. Check if the layout of the document you are trying to
	print will fit on a media size supported by the printer, and then
	oad the correct media size. Make sure to select the correct
	page orientation.
	make sure the media is loaded correctly Make sure the
	media width and length guides fit snugly against the edges of
	the stack. Also, make sure that the correct page orientation is
	selected.

troubleshooting print quality related problems

	the software application cannot interpret print settings properly Check the readme file for known software conflicts. Otherwise, check your software application manual, or call the software manufacturer for more specific help for this problem.
printout is	margin settings might be wrong Make sure the margin
incorrect or part	settings for the document do not exceed the printable area of
of it is missing	your printer.
	color print settings might be wrong The grayscale printing option is probably selected in the printer driver. <i>Windows:</i> In the printer driver, check that the color option is not set to print in black and white or grayscale <i>Mac OS 8.6 to Mac</i> <i>OS 9.2.2:</i> On the main pop-up menu in the Print dialog box, select Color Matching. Make sure the Black and White or Grayscale options are not selected on the Print Color pop-up menu. <i>Mac OS X:</i> On the main pop-up menu in the Print dialog box, select HP Image Quality. Make sure the Print Color as Gray option is not selected.
	wrong printer driver is selected Make sure your printer is selected as the current or default printer.
	symmetrical margins option makes the left and right margins equal and top and bottom margins equal (Windows only) If the page appears incorrect, make sure this setting is not selected in the printer driver.

page layout issues

symptom	solution
	make sure that fonts are used correctly in the
printed	document Make sure you correctly apply the font you want to
	use. For example, in a graphics application, place the words in
	he desired size; do not enlarge by dragging and sizing.
	make sure the font is available in your computer The
	fonts used in the document might not match the fonts currently available in your computer or the type of font used is not designed to be printed. Make sure the font is available in your software application's font selection box, and make sure it is a TrueType™ font. TrueType is a technology that can create fonts of any sizes from a basic font outline. TrueType fonts are scalable. They can be scaled at any time for use on the computer screen or the printer. This is the standard font-scaling technology in Windows.
	the wrong printer driver is selected Make sure your printer
	is selected as the current or default printer.
	the software application is conflicting with the printer The problem is likely a conflict related to the software application you are using. Contact the manufacturer of your software for help. See the release notes for a list of known conflicts with popular software applications.
lext is jagged at	make sure the correct type of font has been chosen
the edges	Some software applications offer custom fonts or use bitmap images of text that have jagged edges when skewed, enlarged, or printed. By using TrueType fonts, you can ensure that the printer is able to print smooth fonts. When selecting a font, look for the TrueType icon.
	an incorrect media type is being used This printer is designed to work well with most office paper types or quality 25 percent cotton bond paper. Because it uses ink to produce an image, media that accepts ink well produces the best results. Media that is heavily textured or does not accept ink well can cause graphics and text to print poorly. It is best to test a variety of media types before buying large quantities. Find a media type that works well and is easy to purchase. HP Inkjet media are designed for the best quality results. To determine if the media type is the cause of the problem, try printing the same document on a type of media that has previously worked well with your printer. The software application is conflicting with the printer
	The problem is likely a conflict related to the software application you are using. Contact the manufacturer of your software for help. See the release notes for a list of known conflicts with popular software applications.

meaningless	a cable connection is poor A common cause for nonsense	
characters are	characters is a poor cable connection between the printer and	
printed	computer. Make sure the cable connection at both ends is good	
	and that the cable is securely fastened.	
	the system needs to be restarted Turn off the printer and	
	computer for a few seconds, turn them both back on, and then try	
	printing again.	
	wrong printer driver is selected Make sure your printer is	
	selected as the current or default printer.	
	document file is damaged Occasionally, a document file can	
	become damaged. If you can print other documents from the same	
	software package, try to print using a backup copy of your	
	document, if available.	

text or graphic issues

symptom	cause	solution
ink is smearing	printout did not have	Solution 1: While printing documents that use a lot of ink, allow the document more time to dry before handling it. This is especially true for transparencies. Select Best mode in the printer driver to set a longer dry time for printing transparencies, if the print job is not being attended to personally. The paper type might be causing the smearing. Some types of paper do not accept ink well, which causes the ink to dry more slowly and results in smearing.
	Cause 2: Too much ink on the page is causing wrinkling.	Solution 2: Color documents with rich, blended colors might use excess ink, which wrinkles the page during printing and causes smearing. Try using the Normal or Fast print quality setting to reduce ink or use HP Premium Paper designed for printing vivid color documents.
	Cause 3: Printhead problem.	Solution 3: Align and clean the printheads.
	Cause 4: Media type is causing the smearing.	Solution 4: Some types of media do not accept ink well, which causes the ink to dry more slowly and results in smearing.
	been exposed to a	Solution 5: If media has been exposed to a humid environment, it might be difficult to achieve the correct drying time, especially when printing with heavy color saturation. Print on a fresh ream of media that has been stored in a cool, dry place.
ink is not filling the text or graphics completely		Solution 1: Try removing and then reinstalling the ink cartridges. Ensure to snap them firmly into place.
	Cause 2: The ink cartridge is out of ink	Solution 2: The ink cartridge might be out of ink. Replace the empty ink cartridge.
	Cause 3: An incorrect or poor paper type is being used	Solution 3: Some paper types are not suitable for use with the printer.
	Cause 4: The wrong print quality mode is being used	Solution 4: Try printing using Best print quality mode.

low or excess use of ink in printouts

low or excess use of ink in printouts

symptom	cause	solution
Printouts are faded or dull- colored	Cause 1: Fast print quality is selected	Solution 1: The Fast mode option is good for printing drafts. To achieve better-colored printout, select Normal or Best print quality in the printer driver. Use the Fast mode to print at a faster rate.
	Cause 2: An incorrect media type print setting is being used	Solution 2: When printing on transparencies or other special paper types, select the corresponding paper type in HP's Print Settings dialog box. Use this dialog box to gain access to printer features from a software application, such as a word- processing and graphics application. Use the printer driver to select print quality, page orientation, paper type, and paper size.
	Cause 3: An incorrect media ype is being used	Solution 3: Some paper types are not suitable for use with the printer.
	Cause 4: An ink cartridge is low on ink	Solution 4: Check that all the lines are connected and printed properly. If the lines are broken, the ink cartridge is probably out of ink. Replace the ink cartridge with a new one. However, if the ink cartridge has been recently replaced, the cartridge is probably bad.

troubleshooting incorrect color printouts

Colors are	Cause 1: The grayscale	Solution 1: The grayscale printing
printing as	printing option is selected in	option is probably selected in the
black and white	the printer driver.	printer driver.
or the wrong		Click Start, point to Settings, and
colors are		then click Printers (Windows 95,
printing		Windows 98, Windows
		Millennium Edition, Windows NT
		4.0, and Windows 2000) or
		Printers and Faxes (Windows XP).
		Right-click the printer icon, and
		then click Properties (Windows 95,
		Windows 98, and Windows
		Millennium Edition), Document
		Defaults (Windows NT 4.0), or
		Printing Preferences (Windows
		2000 and Windows XP).
		For the PCL 5C printer driver,
		make sure the Print In Grayscale
		check box is cleared on the Color
		tab.
		Click OK.

The wrong colors are printing	Grayscale option is selected in the printer driver	Solution 1: The grayscale printing option is probably selected in the printer driver. Windows: In the printer driver, check that the color option is not set to print in black and white or grayscale. Mac OS Mac OS 8.6 to Mac OS 9.2.2: On the main pop-up menu in the Print dialog box, select Color Matching. Make sure the Black and White or Grayscale options are not selected on the Print Color pop-up menu. Mac OS X: On the main pop-up
		grayscale. Mac OS
		Print dialog box, select Color
		and White or Grayscale options
		menu in the Print dialog box, select
		HP Image Quality. Make sure the
		Print Color as Gray option is not selected.
		The wrong printer driver is
		selected in the software
		application: Make sure the correct printer driver is selected in the
		application.
		The printer is not configured
		correctly: Print a Configuration
		page. If no color appears on the
		Configuration page, contact HP support.
		Printheads are clogged or need
		cleaning: Whenever print quality
		noticeably decreases, it is a good
		idea to clean the printheads.
	Cause 2: The color cartridge is	
	• •	completely wrong, the printer
		might have run out of one or more colors of ink.
	Cause 3: The printheads are	Solution 3: Whenever print quality
	clogged or need cleaning	noticeably decreases, it is a good
		idea to clean the printheads.

Bleeding colors in printout		Solution 1: Some paper type settings (such as transparency) and print quality settings (such as Best) require more ink than others.
		Choose different print settings in the printer driver. Also, make sure
		that the correct paper type is selected in the printer driver.
	Cause 2: An incorrect paper type is being used	Solution 2: Some paper types are not suitable for use with the printer.
	Cause 3: The ink cartridges have been refilled	Solution 3: HP does not guarantee or support refilled ink cartridges. Refilling processes and the use of incompatible inks might disrupt the intricate printing system, potentially resulting in reduced print quality and even printer
		damage.
Colors do not line up properly	•	Solution 1: The printheads on the printer are automatically aligned
with each other		when a printhead is replaced. However, print quality might improve by aligning the printheads.
	Cause 2: Graphics in the document are not placed properly	Solution 2: Use the zoom or print preview feature of the software to check for gaps in the placement of graphics on the page.
Color prints		Solution 1: Color printouts have an
inconsistently	is low: Check the ink cartridge	inconsistent finish
0	levels on the LCD control	
new ink	panel, print a Supplies Status	
cartridge	Page, or use the embedded web server to view the	
	remaining life of ink cartridges.	
	If you are using a non-HP ink	
	cartridge or a refilled ink	
	cartridge, none of these	
	sources provide information	
	about low or empty non-HP ink	
	cartridges.	
	0	Solution 2: Use smooth media,
		such as a high-quality paper made for inkjet printers.
	the ink cartridges, making sure	
	that they snap firmly into	
	place.	

troubleshooting incorrect color printouts

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Module



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how the printer works

how the printer works

The printer driver converts the page seen on the computer screen into a dot pattern described by a series of commands (a PCL or PS language file) which are relayed to the formatter of the printer. The commands include the style, size, and the type of graphics, the graphics placement, and color treatment. The formatter optimizes the commands for specific characteristics of the printer such as how many dots-per-inch the printer is capable of printing. The writing system then creates a rectangular array of pixels, called a raster image, based on these commands. This image is then relayed to the marking engine of the printer, to be printed.

The marking engine controls and coordinates the firing of the printhead nozzles, and the movement of the paper feed and carriage drive mechanisms. The paper feed system moves the paper through the printer, allowing the printheads to cover the entire page with ink. The printer uses the rollers of the pick mechanism to pick the page from the Input tray and transfer it to the converger, where it is properly aligned and then transfered to the linefeed system. The linefeed system moves the page forward as the Carriage drive mechanism

moves the printheads back and forth across the width of the page, carefully controlling the position and speed of the printheads.

As the printheads traverse the page, they fire ink droplets from the nozzles to the surface of the page to form the images and characters of the printed page. The nozzles are positioned just above the surface of the page, the exact distance is important and is called the pen-to-paper spacing (PPS). Each nozzle can fire ink droplets to the page at a rate of up to 36,000 times per second. The ink droplets are absorbed and the page is transfered to the output mechanism. As the page exits the printer, it is dried by the post-heater, then ejected into the output tray.

After completing a print job, the carriage and printheads return to their original parked position, beyond the edge of the paper path, where the Service Station performs maintenance. The printhead nozzles are fired to clear the nozzles of any ink residue and then wiped to remove any remaining ink deposits.

writing systems

The hp business inkjet 3000 series produce photo-quality color images using:

- color control
- resolution enhancements
- •

color control

The hp business inkjet 3000 series printing system produces a wide range of color using enhanced color layering with HP's Photo Resolution Enhancement technology (PhotoREt III). Variable ink-drop volume, using fade resistant inks places up to 20 drops of ink in a single dot that creates finer color control and produces five times the number of colors provided by PhotoREt II printers.

resolution enhancements

PhotoREt III enables business inkjet printers to produce photo-quality color images. PhotoREt III's new halftoning algorithms, and specially developed photo paper work together to deliver outstanding image quality and performance. PhotoREt III enables faster color print speeds without sacrificing print quality. The maximum resolution for both color and black&white printing is 2400 x 1200 dpi.

printer interfaces



The hp business inkjet 3000 series has three I/O interface types:

Universal Serial Bus (USB) interface.

IEEE 1284-B parallel Centronics interface

(2) hp EIO Interfaces

Universal Serial Bus (USB) interface

The USB interface provides bi-directional communication allowing Windows computers to receive and display printer status information.

IEEE 1284-B parallel Centronics interface

Firmware in the printer supports the following modes of Centronics operation through the 1284-B parallel interface port. Most computers can operate in all three modes:

- Compatibility: unidirectional data flow from the computer to the printer.
- Nibble: unidirectional mode data flow from the printer to the computer.
- Extended Capabilities Port (ECP): true bi-directional communication between the printer and computer.

Computers can switch between Compatibility and Nibble modes to establish limited twoway (bi-directional) communication. ECP mode allows Windows computers to receive and display printer status information.

hp EIO Interface

In addition, the printer offers the Enhanced Input/Output (EIO) interface, which is a generalpurpose interface for Hewlett-Packard peripherals used to expand the printer's capabilities with a network card or added memory. EIO is based on a high-performance 32-bit PCI bus that provides a substantial increase in I/O bandwidth over the older 16-bit MIO interface.
EIO offers the following interface accessories and added functionality:

- Addition of a 10GB EIO hard disk for print job storage, and the storage of additional fonts and forms.
- Addition of an EIO Jet Direct network card for fast printing, network installation, and ease of use.
- Addition of an EIO Jet Direct 802.11b wireless network card for wireless printing and networking.



The paper transfer sequence (paper path) involves four main systems:

- pick and separation system
- converger system
- linefeed system
- output system

•

pick and separation system

The pick motor activates the gear train that lowers the pick arm to pick a sheet of paper. The paper is picked up by the pick roller and passed to the separation trough. The separation roller moves the paper towards the deflected separation pad where friction is used to separate the paper into individual sheets. The paper is then passed to the converger.

converger system

The converger positions and aligns the paper for printing and feeds it into the print zone using a large set of rollers driven by the converger motor.

linefeed system

Once the page has entered the print zone, the linefeed roller, powered by the linefeed motor moves the paper forward. The plastic encoder disk on the linefeed roller maintains linefeed accuracy while the carriage assembly moves across the page applying ink. A vacuum is used in the printzone to remove dust or other particles. After printing, the paper is transferred to the output system.

output system

The simplexer or duplexer contain the output mechanism, driven by the output motor. Starwheel rollers are used to minimize smudging as the paper is ejected. The post-heater dries the page as it is slowly ejected from the printer, minimizing smudging against the previously printed page. If a duplexer is installed, and duplexing configured, the page is drawn back into the printer for printing on the opposite side of the page.

ink supply station



The Ink Supply Station (ISS) performs the following functions:

- holds ink cartridges
- supplies ink to the printheads
- collects excess ink
- •

supplying ink to the printheads

The ISS supplies the printheads with ink using positive pressure provided by a pump located underneath each ink cartridge port. The Ink Distribution System (IDS) subassembly extracts ink from the cartridges using a needle which forms a pressurized seal with the ink cartridge. The ink is then transferred to the printheads through the ink tube.

collecting excess ink

The ISS collects excess ink should the ink system rupture. A sponge (ink-absorber) located in the ISS support bracket is used to absorb the ink. The ISS is also designed to collect spilled ink from the service station, should excesive ink flow out of the service station ink-waste bucket. This happens when evaporation rate is slower than spitting rate especially when printing exceeds 3600 pages per day, given a low temperature, high humidity environment. The ink-reservoir attached to the power supply will transfer the ink to the ISS reservoir.

carriage system



The carriage systems performs the following functions:

- holds printheads
- drives printheads across the page
- •

driving printheads across the page

The carriage system drives the printheads across the page using a motorized belt. The belt loops around the belt tensioner pulley and the carriage motor pulley. The carriage assembly is fastened to one side of the belt so that as the belt moves, the carriage traverses the page.

The encoder strip runs through the carriage assembly and is attached at either side of the print mech chassis. The encoder strip is an encoded, filmstrip that helps maintain the accuracy of the carriage's position during printing. The carriage PCA, part of the carriage assembly, reads the encoder strip and sends feedback on the carriage's position to the main logic PCA.

service station



The service station performs functions that help keep the printhead nozzles in top working condition. These functions include:

- spits ink
- wipes printheads
- caps printheads
- •

spitting ink

The printer spits ink to help clear clogged nozzles. Spitting occurs when the printer is powered on and before and after printing

wiping printheads

Wiping removes dust, dried ink, and foreign particles from the outside of the printhead nozzles. To remove the debris from the wiper before it goes for the next wipe, the wiper goes through a scrapper. The scrapper is a part of the wiping mechanism. Wiping occurs before, after, or during printing.

capping printheads

Capping is done to prevent the printheads from drying up. The service station motor moves the service station base to place the caps under the printheads, capping the printhead nozzles. This is the default printhead position.

duplexer vs. simplexer



Simplexer functions include:

- managing output of paper
- providing access to paper jams

Duplexer functions include:

- managing output of paper
- providing access to paper jams
- prints both sides of the page
- managing output of paper

The output system is located in both the simplexer and duplexer. The gears of the output system are driven by the output motor located on the print mech chassis. A combination of output rollers, pinch rollers, and starwheels are used to eject the paper to the output tray. Small ramps are included in the output mechanism to support the page as it is dried and to prevent bulldozing into the output tray.

providing access to paper jams

Both the simplexer and duplexer are removable to help troubleshoot and eliminate paper jams. The duplexer sensors are used to detect paper jams

duplexing printed pages

The duplexer provides the capability of printing on both sides of the page, one side at a time, without user intervention. It is a front-end type to allow printed media to completely pass through the post-heat zone before re-directed back through the duplex path. The paper is supported by output ramps before it is redirected back to the converger.



extending media capacity

Tray 3 extends media capacity with the capability of holding 700 sheets of 20lb paper. Tray 3 is similar to Tray 2 with an identical pick and separation mechanism and media size sensors. The tray also has a presence sensor (optical) located in the rear of the tray path. The elevator mechanism on Tray 3 is driven by a dedicated motor activated by an optical sensor.

Tray 3

power supply



providing power to printer components

The power supply unit supplies the power required by the printer to operate properly. It accepts any input voltage of 110 or 240 VAC and provides +3.3V, +5V, and 12V DC to the different electronic subsystems.

electronics

Printed Circuit Assemblies (PCAs) included in the printer:

- main logic PCA
- compton PCA
- linefeed encoder PCA
- carriage PCA
- Tray 1 interconnect PCA
- EIO interface PCA

Electric motors included in the printer:

- pick motor
- linefeed motor
- carriage motor
- output motor
- service station motor

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item	description
main logic PCA	Contains the print engine and supports all internal logic and user
	interfaces with the printer, including the control panel.
compton	Handles communication with the computer, processes PCL or PS
formatter PCA	commands, and controls EIO devices.
linefeed encoder	Provides linefeed position feedback by reading the plastic
PCA	encoder disk, and sending feedback to the logic PCA.
carriage PCA	Reads the encoder strip and sends feedback on the carriage's
	position to the logic PCA.
ElO interface	nterfaces EIO devices with the formatter PCA and links the logic
PCA	PCA and formatter PCA via a PCI (Protocol Control Information)
	bus.
Tray 1	nterfaces with Tray 1 electronics such as sensors
interconnect PCA	

PCA components and their functions

item	description
pick motor	Drives the pick and separation mechanism (pick roller, separation roller, and separation pad).
converger motor	Drives the converger roller
linefeed moto	rDrives the linefeed roller
carriage motor	Drives the carriage assembly laterally across the page during printing

	Drives the output system in the duplexer or simplexer unit. If a
	duplexer unit is installed, the output motor will drive duplexing
	unctions.
service station	Drives the wiping and capping of the printheads
motor	

electric motors and their functions

formatter PCA



The formatter PCA board (compton PCA) performs the following functions:

- communicates with the computer
- processes PCL or PS commands
- controls EIO devices
- •

communicating with the computer

The formatter communicates with the computer via the USB or IEEE 1284 parallel interfaces.

processing PCL or PS commands

PCL or PS commands are processed by the formatter and translated to Page Description Language (PDL) commands which are then sent to the logic PCA. PDL is a common intermediary language that allows for greater commonality between operating systems and the print engine.

controlling EIO devices

The formatter controls any installed EIO devices such as the JetDirect print servers or the optional harddisk, used for storing print jobs.



The main logic PCA board performs the following functions:

- contains the writing system and marking engine
- supports all internal logic for the printer
- •

writing system and marking engine

The writing system takes PDL commands from the formatter PCA and produces a rasterized image. Color matching, half toning and any other ink mitigation algorithms are applied to the image, and it is transfered to the marking engine. The marking engine controls and coordinates the firing of the printhead nozzles, and the movement of the paper feed and carriage drive mechanisms as the rasterized image is applied to the page.

printer internal logic

The main logic PCA contains the firmware and controls all internal logic, including the control panel, LCD display and all peripheral systems such as the heating and vacuum systems.

sensors

Sensors are used to provide feedback on the state of various printer components. Sensor types implemented for the 3000 series include mechanical switches, optical sensors, and sensing capability implemented in the firmware. Optical sensors function using a mechanical arm (tripped by movement) or a flag located on the component itself to interrupt the light path of the sensor. The following sensors are included in the 3000 series:

Component presence and open / close sensors

- access door open sensors
- tray detection sensor
- tray open sensor
- duplexer open sensor

Media presence and size sensors

- tray empty sensor
- media size sensor
- transparency sensor
- media top sensors

Paper path sensors

- handover sensor
- linefeed encoder
- carriage encoder

Supplies sensors

- ink supply sensor
- printhead info
- •

item	description
access door	Detects the status of an access door (open or closed). This is an
sensor	optical sensor (without a mechanical arm) implemented for the
	main access door and ink supply station access door.
tray detection	Detects the presence of Tray 1(trough or multi-purpose) and Tray 3.
sensor	This sensing capability is implemented in the printer firmware.
tray open	Detects the status of a paper tray (open or closed). This is
sensor	implemented using an optical sensor for both Tray 2 and Tray 3
duplexer /	Detects the type and status (open or closed) of a duplexer or
simplexer open	simplexer unit. This is implemented using an optical sensor
and type sensor	detecting duplexer/simplexer presence and a optical sensor that
	detects paper edge. This sensor also detects the presence of a
	paper jam in the duplex path.

component presence / type and open / close sensors

item	description
tray empty	Detects the absence of media during printing. This sensor is also
sensor	known as an Out of Paper Sensor (OOPS). This is an optical sensor
	implemented for Tray 2 and Tray 3.
media size	Detects the size of the media present in a tray. This sensor is a
sensor	printed circuit board (PCB) with three switches located on the printer
	mech frame, underneath the tray path. The three switches are
	actuated by the media adjustment tabs located on the tray. This is
	implemented for both Tray 2 and Tray 3.
transparency	This sensor detects the use of transparency media, enabling the
sensor	printer to automatically switch to transparency-printing mode. This is
	implemented using an optical sensor located between the pick and
	converger systems. The light path of the sensor is interrupted by
	opaque paper but not transparencies.
Tray 2 media	Detects when the media stack in tray 2 has reached the top of the
top sensor	ray. This is a non-electronic mechanical arm which causes the
	spring-loaded elevator mechanism to raise the media.
Tray 3 media	Detects when the media stack in tray 3 has reached the top of the
op sensor	ray. This is an optical sensor with a mechanical lever which senses
	when the paper has reached the top of the tray, stopping the
	elevator motor from continuing to raise the media.

media presence and size sensors

item	description
handover sensor	Detects the transfer of media from the pick system to the converger system. This is implemented using an optical sensor located on the converger.
linefeed encoder	Detects movement of the media through the printzone. Implemented using encoder electronics and an encoder disk located on the main roller. The line feed encoder is used to position the paper accurately during printing.
carriage encoder	Detects the movement of the carriage system. Implemented using encoder electronics and an encoder strip located underneath the carriage. This sensor is used to control the lateral movement of the carriage during the printing sequence.

paper path sensors

item	description
ink supply	Detects the presence and status of ink supplies. This sensing
sensor	capability is Implemented in the printer firmware.
printhead	Detects the presence and status of the printheads. This sensing
info	capability is Implemented in the printer firmware.

supplies sensors

vacuum system



holding the page flat during printing

The vacuum system is used to hold the page flat during printing, keeping it away from the carriage to maintain consistant pen-to-paper spacing (PPS). The vacuum system consists of a vacuum pump and a channel that connects to the printzone.

aerosol system



removing fine particles from the printzone

The aerosol system removes ink aerosols (fine ink particles) from the printzone as ink is fired from the printhead nozzles. The aerosol system consists of a filter, vacuum fan and channel suspended before the output system. Ink aerosols can coat the inside of the printer and foul optical sensors, and encoders causing the printer to malfunction. post-heater system



drying the page before ejection

The post-heating system helps increase the printer output speed by decreasing the drying time for each printed page. Smudging is also minimized as each page is ejected or sent through the duplexing unit. The heating system consists of a heating element, a fan and a channel suspended before the output system.

LCD messages

LCD messages include:

- status messages
- warning messages
- error messages
- critical error messages

status messages

Status messages reflect the current state of the printer. They indicate normal printing operation and require no action to clear them. They change as the state of the printer changes. Whenever the printer is ready, not busy, and has no pending warning messages, the status message READY is if the printer is online.

warning messages

Warning messages indicate data and print errors. These messages typically alternate with the READY and STATUS messages and remain displayed until the SELECT button (check mark icon) is pressed.

error messages

Error messages communicate that some action must be performed, such as adding paper or clearing a paper jam. Some error messages are auto-continuable. If AUTO-CONTINUE=ON, the printer will continue normal operation after displaying auto-continuable error message for 10 seconds

critical error messages

Critical error messages indicate a device failure. Some of these messages can be cleared by pressing and holding the POWER button (circular icon) to turn the printer off then on again. These messages are not affected by AUTO CONTINUE settings. If a critical error persists, service is required.

item	description
NITIALIZING	The printer is initializing. Please wait.
READY	The printer is idle and ready to accept print jobs.
POWERING OFF	The POWER button (circular icon) has been pressed and held, and the printer is preparing to turn off.
POWERSAVE ON	The printer's powersave mode is activated. No action is required. If you want to exit powersave mode, press any button on the LCD control panel.
WARMING UP	The printer is warming up. Please wait.
Please Wait	Please wait. Printer has been placed offline while job is being processed. Press (pause/resume button) to resume processing job.

PAUSED The printer has been paused and is currently off lir not process any print jobs currently in the queue. T feature is useful when performing minor maintenar on the printer, like loading paper or replacing ink cartridges. Press the PAUSE / RESUME button (rigl icon) to switch the printer to READY mode to contin	
printing.	nce tasks ht error nue
DEPRESSURIZING The printer is purging the air in the ink delivery tub	bes.
WAIT FOR XX Please wait until the process is complete.	
MINUTES	
WAIT FOR PRINTER The printer needs to reinitialize. It will automatical	. turn
TO REINITIALIZE itself off, and then turn itself on again. Please wait	
ACCESS DENIED Access to this menu or menu item requires a PIN (F	
Identification Number). Please enter the correct pa	ssword
or contact the IT administrator.	
NCORRECT PIN An incorrect PIN has been entered. Please enter th	e correct
PIN or contact the IT administrator.	
SETTING SAVED The control panel setting has been saved. No action	on
required.	
PRINTING The Configuration page is being printed. Please w	rait
CONFIGURATION	un.
PRINTING EVENT The event log is being printed. Please wait.	
LOG	
PRINTING FILE The file directory of the hard drive is being printed	. Please
DIRECTORY wait.	
PRINTING FONT LIST The list of available fonts is being printed. Please v	vait.
PRINTING MENU The menu map is being printed. Please wait.	
МАР	
MAP PRINTING NOZZLE The nozzle test page is being printed. TEST PAGE is printed automatically after printhead cleaning is complete.	
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PRINTING NOZZLE The nozzle test page is being printed. The nozzle test page is being printed. The nozzle test page is being printed cleaning is complete. PRINTING SUPPLIES The supplies status page is being printed. Please we status PRINTING USAGE The usage page is being printed. Please wait. PAGE PRINTING ALIGNING The printer is aligning the printheads. Please wait. PRINTHEADS The printer is cleaning the printheads. Please wait. CLEANING The printer is cleaning the printheads. Please wait. CALIBRATING COLOR The printer is calibrating the color. Please wait. CALIBRATION The color calibration process has been canceled. F CALIBRATION The printer is calibrating the linefeed. Please wait.	vait.
PRINTING NOZZLE The nozzle test page is being printed. The nozzle test page is being printed. The nozzle test page is being printed cleaning is complete. PRINTING SUPPLIES The supplies status page is being printed. Please we status PRINTING USAGE The usage page is being printed. Please wait. PAGE The printer is aligning the printheads. Please wait. PAGE The printer is cleaning the printheads. Please wait. PRINTING The printer is cleaning the printheads. Please wait. PRINTHEADS The printer is cleaning the printheads. Please wait. CALIBRATING The color calibration process has been canceled. Flexible wait until the process is completely canceled. CALIBRATING The printer is calibrating the linefeed. Please wait. CALIBRATING The printer is calibrating the linefeed. Please wait.	vait.
PRINTING NOZZLE The nozzle test page is being printed. The nozzle test page is being printed. The nozzle test page is being printed cleaning is complete. PRINTING SUPPLIES The supplies status page is being printed. Please we status PRINTING USAGE The usage page is being printed. Please wait. PAGE PAGE ALIGNING The printer is aligning the printheads. Please wait. PRINTHEADS The printer is cleaning the printheads. Please wait. CLEANING The printer is calibrating the color. Please wait. CALIBRATING COLOR The color calibration process has been canceled. F CALIBRATION The printer is calibrating the linefeed. Please wait. CALIBRATING The printer is calibrating the linefeed. Please wait. CALIBRATION The printer is calibrating the linefeed. Please wait. CALIBRATING The printer is calibrating the linefeed. Please wait. CALIBRATING The printer is calibrating the linefeed. Please wait. CALIBRATING The printer is calibrating the linefeed. Please wait. CALIBRATING The printer is calibrating the linefeed. Please wait.	vait.
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PROCESSING	The printer is printing a print job from tray XX. Please wait.
[JOBNAME] FROM	
TRAY XX	
PROCESSING	The printer is printing a print job. Please wait.
[JOBNAME]	
PROCESSING	The printer is printing the Xth copy of Y copies of a print
[JOBNAME] COPY [X]	
OF [Y]	
CANCELING	The printer is canceling a print job. No action is required.
JOBNAME]	ine priner is concerning a prini job. No action is required.
· · · · · · · · · · · · · · · · · · ·	The CANCEL JOB button (X icon) has been pressed, but
	there are currently no print jobs in the queue to cancel.
UNABLE TO MOPY	A request to print multiple copies of a print job was
JOB [JOBNAME]	received. The printer was unable to accept the request, and
	only one copy of the print job will be printed. Possible
	reasons could be problems with the memory, hard disk or
	configuration. Check to see if a hard disk is installed in the
	printer.
UNABLE TO STORE	A request to store a print job was received. The printer was
IOB [JOBNAME]	unable to accept the request. Possible reasons could be
[3]	problems with the memory, hard disk or configuration.
	Check to see if a hard disk is installed in the printer.
DELETING	The printer is deleting a print job. No action is required.
[JOBNAME]	
	The printer is processing a print job that requires both sides
IOB	of the paper to be printed on. The printer prints one side of
ЮВ	the page, holds the page momentarily, and then fully
	retracts the page into the printer before printing the other
	side of the page. Do not remove or disturb the paper until
	the printer fully releases it.
CLEARING EVENT	The printer is clearing its event log. The event log is a
LOG	record of past printer events. No action is required.
EVENT LOG EMPTY	The event log is empty. The event log is a record of past
	printer events. No action required.
PEFORMING PAPER	A paper path test has been initiated. The printer will
PATH TEST	continue feeding paper through the paper path until the
	CANCEL JOB button (X icon) is pressed.
CLEARING PAPER	The printer is attempting to clear residual paper from the
PATH	paper path. Please wait until it is complete.
EIO X DISK	The EIO hard drive is initializing. Please wait.
INITIALIZING	Ŭ
EIO X DISK	The EIO hard drive is spinning up. Please wait.
SPINNING UP	
FLASH DISK X	A new flash DIMM installed in slot X is initializing. Do not
NITIALIZING	urn off the printer.
	Fonts and programs are being loaded into the system RAM.
XX	Do not turn off printer.

RESETTING FACTORY	The printer is resetting the menu settings to factory defaults.
Settings	Please wait.
RECEIVING UPGRADE	The printer is currently receiving the firmware upgrade file.
	Please wait.
PERFORMING	The printer firmware is currently being upgraded. Please
UPGRADE	wait.
RESEND UPGRADE	The firmware upgrade process was not successful. Please
	send the firmware upgrade file again.

status messages

item	description				
COLOR	The color calibration has failed. Make sure plain letter or A4				
CALIBRATION	paper is loaded in the printer, and then start the color				
FAILED	calibration from the LCD control panel.				
DATA RECEIVED	The printer has received some print job data, but not enough to start printing. It will time out and cancel the job after the time-out period if all the required data is not received. The I/O time-out period can be set in the LCD control panel.				
[FS] DEVICE FAILURE	The specified file system device has failed.				
[FS] FILE	A file system command was received and attempted to				
	perform an illogical operation, such as downloading a file to a non-existent directory.				
[FS] FILE SYSTEM IS FULL	The hard disk is full. Delete stored files in the file system.				
[FS] IS WRITE PROTECTED	The hard drive is write protected				
linefeed	The linefeed calibration has failed. Make sure plain letter or				
Calibration Failed	A4 paper is loaded in the printer, and then start the linefeed calibration from the LCD control panel.				
NON HP	The printer has detected a third party ink cartridge or				
	cartridges not provided by HP. Printer damage resulting from the use of ink cartridges not approved by HP could affect the printer's warranty. If you are certain all ink cartridges being used in the printer are genuine HP ink cartridges, please contact HP.				
ORDER [COLOR]	The [COLOR] ink cartridge is running low on ink or is near				
Cartridge	expiration. Be prepared to replace it with a new ink cartridge.				
ORDER [COLOR]	The printhead health has reached the low threshold. The				
PRINTHEAD	printhead can continue to be used until the REINSTALL [COLOR] PRINTHEAD message is shown.				

ORDER SUPPLIES	This message indicates one or both of the following: One or more of the ink cartridges are running low on ink or are nearing expiration. The health of one or more of the printheads is low. Press the SELECT button (check mark icon) for more information regarding specific ink cartridges and printheads. Be prepared to replace the specific ink cartridges and/or printheads with new ink cartridges and/or printheads.
PRINTHEAD	The printhead alignment has failed. Make sure plain letter or
ALIGNMENT FAILED	A4 paper is loaded in the printer, and then start the printhead
	alignment from the LCD control panel.
PRINTHEAD	The printhead cleaning has failed. Make sure plain letter or
CLEANING FAILED	A4 paper is loaded in the printer, and then start the printhead
	cleaning from the LCD control panel.
SIZE DETECTED BY	The printer automatically detected the paper size loaded in
	Tray X. Only certain standard sizes, such as A4 and Letter,
TRAY X [TYPE][SIZE]	can be automatically detected by the printer trays. No action
	is required.
TRAY XX EMPTY	Please load Tray XX with media.
[TYPE][SIZE]	
TRAY XX OPEN	Please close Tray XX. If the tray appears to be closed, it might
	not be closed properly. Pull out the tray and close it firmly.
TRAY XX	The printer is able to automatically detect the paper size
[TYPE][SIZE]	loaded in Tray XX. Only certain standard sizes, such as A4
	and Letter can be automatically detected by the printer paper
	rays. No action is required.

warning messages

item	description
CLOSE COVERS	The covers are open or not closed completely. Close all covers to continue printing. If you need to replace a printhead, the printer must be in printhead replacement mode.
NSERT OR	Tray XX is open or has been removed. Insert or close Tray XX to
Close tray XX	allow printing to continue. If the tray appears to be closed, it might not be closed properly. Pull out the tray and close it firmly.
INSTALL DUPLEX	The optional auto-duplex unit or the simplex unit is missing. One
OR SIMPLEX UNIT	of these units must be installed before printing can proceed.
load tray XX	Tray XX is configured for a specific media type and size
[TYPE] [SIZE]	required for a print job that has been sent, but the tray is empty. Load the specified media type and size into Tray XX. To override this message and use a media type and size that is available in another tray, press the SELECT button (check mark icon).

USE [TYPE] [SIZE] FROM TRAY N INSTEAD?	This message is shown when you press the SELECT button (check mark icon) to print the current job from another tray. Press and (up and down arrow button) to scroll through the list of available trays. Press the SELECT button to select the desired
	ray.
REMOVE MEDIA IN TRAY 1	A media is detected in Tray 1 that prevents printing from continuing. This is valid if the source tray selected is not Tray 1.
MANUALLY FEED [TYPE] [SIZE]	The print job requires a specific media type and size that is not currently available, or the print job has specified the Tray 1 as
	he source tray. Load the specified media type and size into Tray 1. To override this message and use a media type and size that is available in another tray, the SELECT button (check
	mark icon).
Chosen Personality	The printer is not able to process the print job because the requested personality (printer language) is not available. The
NOT AVAILABLE	ob was canceled and no pages were printed. Resend the print ob using a supported personality (PCL 5c, PCL 6, or PS 3 emulation).
INSTALL SUPPLIES	At least one supply is missing or is installed incorrectly in the printer, and another supply is missing, installed incorrectly, out, or low. Press the SELECT button (check mark icon) for more information about specific ink cartridges and printheads. Install any missing ink cartridges and printheads. If all are installed, remove the ink cartridges and printheads. Verify that you are using the correct ink cartridges and printheads, and then firmly reinsert them into the printer. You might need to repeat this several times. Be prepared to replace the specific ink cartridges
	and/or printheads with new ink cartridges and/or printheads.
REINSTALL	More than one ink cartridge or printhead is faulty, and more
SUPPLIES	than one ink cartridge is empty or has expired. Replace the supplies to continue printing.
NCORRECT	At least one supply is incorrect and another supply is missing,
SUPPLIES	installed incorrectly, out, or low. Press the SELECT button (check mark icon) for more information about specific ink cartridges and printheads. Install any missing ink cartridges or printheads. Press the SELECT button to display the status of the printer supplies on the LCD control panel. If all supplies installed, remove the ink cartridges and printheads. (Verify that you are using the correct ink cartridges and printheads, and then firmly reinsert them into the printer. You might need to repeat this
	several times. If a printhead is still listed as one of the incorrect supplies, clean the printhead contacts. If the printhead is still listed after cleaning, install a new printhead. Be prepared to replace the specific ink cartridges and/or

	The Supplies Low setting in the LCD control panel System Setup menu is set to Stop, and more than one supply item is low, or one or more ink cartridges is nearing expiration. If the Auto Continue setting in the System Setup menu is set to On, the printer continues printing until the supplies are empty or the ink cartridges expire. Otherwise, press the SELECT button (check mark icon) to continue printing.
REPLACE SUPPLIES	More than one ink cartridge is empty or has expired and needs to be replaced. Press the SELECT button (check mark icon) for more information about specific ink cartridges.
PRINTHEADS AND CLOSE COVERS	The printhead cover is open and the printer is in printhead replacement mode. Replace the printhead(s) and close the printhead cover.
CARTRIDGE	The [COLOR] ink cartridge is either not installed or is installed incorrectly. Install the ink cartridge. If already installed, remove and reinstall it. Do this several times. If the problem persists, replace the ink cartridge.
[COLOR] CARTRIDGE	An ink cartridge is faulty. Replace the ink cartridge to continue printing.
INCORRECT [COLOR] CARTRIDGE	An incorrect or faulty ink cartridge has been installed in the [COLOR] ink cartridge slot. Remove the ink cartridge. Verify that you are using the correct ink cartridge, and then firmly reinsert it into the printer. You might need to repeat this several times. Replace the ink cartridge with a new ink cartridge if the problem persists.
CARTRIDGE	This message is displayed when the supplies low setting in the LCD control panel system setup menu is set to Stop, and either a low ink level is reached, or the ink cartridge is nearing expiration. If the Auto Continue setting in the System Setup menu is set to On, the printer continues printing until the ink cartridge runs out of ink. Otherwise, press the SELECT button (check mark icon) to continue printing.
	An ink cartridge is empty or has expired. Replace the ink
Cartridge Non Hp	cartridge to continue printing. A new, non-HP ink cartridge has been installed. This message is
	displayed until you install an HP ink cartridge. Any printer
DETECTED	repair required as a result of using non-HP supplies is not covered under HP warranty. To override this message, press the CANCEL JOB button (X icon)
PRINTHEAD	The printhead is either not installed or is installed incorrectly. Install the printhead, or open the printhead cover and put the printer in printhead replacement mode Remove the printhead. Verify that you are using the correct printhead, and then firmly reinsert it into the printer. If the message persists, clean the printhead contacts. If more than one printhead is missing, the NCORRECT SUPPLIES message is displayed.

REINSTALL	A defective printhead has been detected. Verify that you are
[COLOR]	using the correct printhead, and then firmly reinsert it into the
PRINTHEAD	printer. If the message persists, clean the printhead contacts. If
	hese procedures do not clear the message, install a new
	printhead. If more than one defective printhead is detected, the
	NCORRECT SUPPLIES message is displayed.
NCORRECT	A printhead is installed in the incorrect slot and the cover is
	closed. Open the printhead cover and put the printer in
	printhead replacement mode. Remove the printhead. Verify that
	you are using the correct printhead, and then firmly reinsert it
	into the printer. If the message persists, clean the printhead
	contacts. If these procedures do not clear the message, install a
	new printhead. If more than one printhead is incorrect, the
	NCORRECT SUPPLIES message is displayed.
EIO DISK X NOT	The EIO hard disk in slot X is not working correctly. Press and
FUNCTIONAL	hold the POWER button (circular icon) to turn the printer off.
	Remove and then firmly reinsert the EIO hard disk. Turn the
	printer back on. If the problem persists, replace the EIO hard
	disk.
13.JJ.NT JAM	A media jam has occurred in the auto-duplex unit area.
INSIDE DUPLEXER	
13.JJ.NT JAM	A jam has occurred inside the top cover area.
INSIDE TOP	
COVER	
13.JJ.NT JAM IN	A media jam has occurred in the Tray 1 area.
TRAY 1	
13.JJ.NT JAM IN	A media jam has occurred in the Tray X area (where X=1, 2, or
TRAY X	3).
MEMORY	printer's internal memory. To continue printing, press the
	SELECT button (check mark icon). Only the data that fits in the
	printer's internal memory is printed. The remainder of the job is
21 PAGE TOO	orinter's internal memory is printed. The remainder of the job is canceled.
21 page too Complex	printer's internal memory is printed. The remainder of the job is canceled. The page decompression process was too slow for the printer.
21 PAGE TOO COMPLEX	orinter's internal memory is printed. The remainder of the job is canceled. The page decompression process was too slow for the printer. Press the SELECT button (check mark icon) to continue printing.
	printer's internal memory is printed. The remainder of the job is canceled. The page decompression process was too slow for the printer. Press the SELECT button (check mark icon) to continue printing. There may be some data loss on the page that was being
COMPLEX	printer's internal memory is printed. The remainder of the job is canceled. The page decompression process was too slow for the printer. Press the SELECT button (check mark icon) to continue printing. There may be some data loss on the page that was being formatted when the error occurred.
COMPLEX 22 EIO X BUFFER	orinter's internal memory is printed. The remainder of the job is canceled. The page decompression process was too slow for the printer. Press the SELECT button (check mark icon) to continue printing. There may be some data loss on the page that was being formatted when the error occurred. The printer's EIO card in slot X has overflowed its I/O buffer
COMPLEX	printer's internal memory is printed. The remainder of the job is canceled. The page decompression process was too slow for the printer. Press the SELECT button (check mark icon) to continue printing. There may be some data loss on the page that was being formatted when the error occurred. The printer's EIO card in slot X has overflowed its I/O buffer during a busy state. Press the SELECT button (check mark icon)
Complex 22 EIO X BUFFER Overflow	printer's internal memory is printed. The remainder of the job is canceled. The page decompression process was too slow for the printer. Press the SELECT button (check mark icon) to continue printing. There may be some data loss on the page that was being formatted when the error occurred. The printer's EIO card in slot X has overflowed its I/O buffer during a busy state. Press the SELECT button (check mark icon) to resume printing. Some data will be lost.
Complex 22 EIO X BUFFER Overflow 22 Parallel I/O	printer's internal memory is printed. The remainder of the job is canceled. The page decompression process was too slow for the printer. Press the SELECT button (check mark icon) to continue printing. There may be some data loss on the page that was being formatted when the error occurred. The printer's EIO card in slot X has overflowed its I/O buffer during a busy state. Press the SELECT button (check mark icon) to resume printing. Some data will be lost. The printer's parallel buffer has overflowed during a busy state.
Complex 22 EIO X BUFFER Overflow	printer's internal memory is printed. The remainder of the job is canceled. The page decompression process was too slow for the printer. Press the SELECT button (check mark icon) to continue printing. There may be some data loss on the page that was being formatted when the error occurred. The printer's EIO card in slot X has overflowed its I/O buffer during a busy state. Press the SELECT button (check mark icon) to resume printing. Some data will be lost. The printer's parallel buffer has overflowed during a busy state. Press the SELECT button (check mark icon) to resume printing.
Complex 22 EIO X BUFFER Overflow 22 Parallel I/O BUFFER Over	printer's internal memory is printed. The remainder of the job is canceled. The page decompression process was too slow for the printer. Press the SELECT button (check mark icon) to continue printing. There may be some data loss on the page that was being formatted when the error occurred. The printer's EIO card in slot X has overflowed its I/O buffer during a busy state. Press the SELECT button (check mark icon) to resume printing. Some data will be lost. The printer's parallel buffer has overflowed during a busy state. Press the SELECT button (check mark icon) to resume printing. Some data will be lost.
Complex 22 EIO X BUFFER Overflow 22 Parallel I/O BUFFER Over 22 USB I/O	printer's internal memory is printed. The remainder of the job is canceled. The page decompression process was too slow for the printer. Press the SELECT button (check mark icon) to continue printing. There may be some data loss on the page that was being formatted when the error occurred. The printer's EIO card in slot X has overflowed its I/O buffer during a busy state. Press the SELECT button (check mark icon) to resume printing. Some data will be lost. The printer's parallel buffer has overflowed during a busy state. Press the SELECT button (check mark icon) to resume printing. Some data will be lost. The printer's USB buffer has overflowed during a busy state.
Complex 22 EIO X BUFFER Overflow 22 Parallel I/O BUFFER Over 22 USB I/O BUFFER	printer's internal memory is printed. The remainder of the job is canceled. The page decompression process was too slow for the printer. Press the SELECT button (check mark icon) to continue printing. There may be some data loss on the page that was being formatted when the error occurred. The printer's EIO card in slot X has overflowed its I/O buffer during a busy state. Press the SELECT button (check mark icon) to resume printing. Some data will be lost. The printer's parallel buffer has overflowed during a busy state. Press the SELECT button (check mark icon) to resume printing. Some data will be lost. The printer's USB buffer has overflowed during a busy state. Press the SELECT button (check mark icon) to resume printing.
Complex 22 EIO X BUFFER Overflow 22 Parallel I/O BUFFER Over 22 USB I/O BUFFER Overflow	printer's internal memory is printed. The remainder of the job is canceled. The page decompression process was too slow for the printer. Press the SELECT button (check mark icon) to continue printing. There may be some data loss on the page that was being formatted when the error occurred. The printer's EIO card in slot X has overflowed its I/O buffer during a busy state. Press the SELECT button (check mark icon) to resume printing. Some data will be lost. The printer's parallel buffer has overflowed during a busy state. Press the SELECT button (check mark icon) to resume printing. Some data will be lost. The printer's USB buffer has overflowed during a busy state. Press the SELECT button (check mark icon) to resume printing. Some data will be lost.
Complex 22 EIO X BUFFER Overflow 22 Parallel I/O BUFFER Over 22 USB I/O BUFFER	printer's internal memory is printed. The remainder of the job is canceled. The page decompression process was too slow for the printer. Press the SELECT button (check mark icon) to continue printing. There may be some data loss on the page that was being formatted when the error occurred. The printer's EIO card in slot X has overflowed its I/O buffer during a busy state. Press the SELECT button (check mark icon) to resume printing. Some data will be lost. The printer's parallel buffer has overflowed during a busy state. Press the SELECT button (check mark icon) to resume printing. Some data will be lost. The printer's USB buffer has overflowed during a busy state. Press the SELECT button (check mark icon) to resume printing.

41.3	An incorrect media size is loaded in Tray XX. Check that the
UNEXPECTED	media loaded in the tray matches the size setting in the LCD
SIZE IN TRAY XX	control panel.
41.5	An incorrect media type is loaded in Tray XX. Check that the
UNEXPECTED	media loaded in the tray matches the type setting in the LCD
TYPE IN TRAY XX	control panel.
55.X PRINTER	The engine is not communicating with the formatter.
ERROR	
68.X	One or more printer settings saved in the non-volatile storage
PERMANENT	device is invalid and has been reset to its factory default.
STORAGE ERROR	Printing can continue, but there may be some unexpected
	behaviors because an error occurred in permanent storage.
	Press the SELECT button (check mark icon) to clear the message.
	X is: 0 for onboard NVRAM, 1 for removable disk (flash or
	hard)
68.X	A non-volatile storage device is full. Printing can continue, but
Permanent	here may be some unexpected behaviors because an error
STORAGE FULL	occurred in permanent storage. Press the SELECT button (check
	mark icon) to clear the message. X is: 0 for onboard NVRAM,
	1 for removable disk (flash or hard)
68.X PERM.	A non-volatile storage device is failing to write. Printing can
STORAGE WRITE	continue, but there may be some unexpected behaviors
FAIL	because an error occurred in permanent storage. Press the
	SELECT button (check mark icon) to clear the message. X is: 0
	for onboard NVRAM, 1 for removable disk (flash or hard)

error messages

item	description
49.XXXX	A critical firmware error has occurred. Press and hold the POWER
PRINTER	button (circular icon) to turn off the printer, and then turn it back on
ERROR	o clear the error.
53.XY.ZZ	An error occurred on some memory of the printer.
PRINTER	
ERROR	
8X.YYYY EIO	The EIO accessory card in slot X has encountered a critical error.
ERROR	

critical error messages

paper handling

Paper handing strategy includes:

- hardware features
- Tray 2 and Tray 3
- Tray 1 manual feed trough (MF) and multi-purpose tray (MP)
- duplex unit
- tray selection
- paper size selection
- setting the multi-purpose tray paper size
- setting the paper size in cassette trays
- support for custom paper sizes
- maxwell supported paper sizes
- paper type selection
- media types supported

basic hardware features

Tray 2 and Tray 3 (optional)

The following can be detected for Trays 2 and 3:

- Absence of paper in the cassette
- Closing of the cassette
- Size of paper in the cassette
- Error conditions associated with the cassette

In addition, the following can be detected for Tray 3:

- Absence of the cassette
- Lifting of the cassette

The following cannot be detected:

- Amount of paper in the cassette.
- Type of media in the cassette

Tray 1 - manual feed trough (MF) and multi-purpose tray (MP) (optional)

The following can be detected for Tray 1:

- Absense of the tray
- Presense of paper in the tray

The following cannot be detected:

- Size of paper in the tray
- Type of media in the tray

Because the tray is unable to detect the paper size currently installed in it, the printer must rely on the formatter firmware to indicate the size that will be printed from it. If the user

specifies an incorrect paper size installed in the tray, the possibility for a mis-print error will exist. The formatter firmware will limit envelopes to simplex printing (the back side of a duplex page would be printed on a second envelope).

duplex unit

The printer supports duplex printing through the duplex unit. For duplex printing, the frontside of the paper is printed first in normal orientation. Once the front-side finishes printing, the paper is sent to the duplex unit where the paper is physically flipped over. The printer then pulls the paper from the duplex unit and prints the back-side. The printer will then alternate, pulling paper from the input paper tray or the duplex unit.

sensors

The printer supports media size/type error detection using the following sensors:

- Transparency sensor
- Out-of-Paper sensing capability to measure page length
- Envelope sensor
- •

tray selection

All input paper trays are considered auto-selectable except for Tray 1 (MF or MP), which can only be selected with an explicit manual feed printing request. This means the formatter firmware can select from any of the input paper trays that satisfy a paper size/media name request. For example, if more than one input paper tray had the same size and type paper, the formatter could continue printing without user intervention by switching to a paper tray containing the same size and type paper when the currently selected paper tray is empty or removed.

In the case where a paper tray is specified, the paper tray is first checked to see if it contains the requested size (and type if also specified) and if so the printer will use that paper tray. Otherwise, the printer will look for the requested size and type in another tray.

Finding the correct size and type of paper implies searching all available input trays automatically for that paper. If the search fails, the printer can request the correct paper size & type to be loaded by the user . If the user loads the correct paper size and type, the printer will consider the request satisfied and printing will resume. Otherwise, the user may override the paper request by using a different size and/or type paper so that printing may continue.

paper size selection

All input trays (with the exception of Tray 1) can detect the size of paper currently installed. The printer will only support those paper sizes the trays can physically support (including custom). If the printer driver does not specify a paper size or requests a size not supported by the printer, the firmware will format the page to the default paper size. The default paper size is set by the factory to Letter or A4 (depending on the intended country of that printer) and can be changed by the user via the control panel (in service mode).

setting the multi-purpose tray paper size

The multi-purpose tray does not automatically detect the paper size it currently contains. Therefore, the user must inform the formatter firmware, via the control panel, what size paper is present in the tray.

setting the paper size in cassette trays

The cassette trays auto-detect several standard paper sizes. Other non-detectable standard sizes will physically fit in these cassettes, however non-detectable sizes will need to be specified in the control panel

support for custom paper sizes

The printer supports different sizes of custom paper. Custom sizes can be configured via the paper handling menu of the LCD control panel. The default values for the dimensions are the largest physical dimensions supported in the printer. Certain small paper sizes cannot be duplexed due to the physical limitations of the duplex unit. It is the responsibility of the printer driver software to restrict the user to allowable sizes.

supported paper sizes

Paper Size	Control Panel Name	Tray 1 (MF Trough / MP Tray)	-	Duplex Unit
Letter (8.5" x 11.0")	LETTER	Yes	Yes	Yes
Executive (7.25" x 10.5")	EXEC	Yes	Yes	Yes
Legal (8.5" x 14.0")	legal	Yes	Yes	Yes
A4 (210.0mm x 297.0mm)	A4	Yes	Yes	Yes
IIS B5 (182.0mm x 257.0mm)	B5 JIS	Yes	Yes	Yes
ISO B5 (176.0mm x 250.0mm)	B5 ISO	Yes	Tray 2 only	No
IIS Executive (216mm x 330mm)	IISEXEC	Yes	Yes	Yes
A6 (Euro Postcard)(105.0mm x 148.5mm)	A6	Yes	No	No
IIS Postcard(148.0mm x 100.0mm)	IPOST	Yes	No	No
IIS Double Postcard(148.0mm x 200.0mm)	IPOSTD	Yes	No	No
Com10 Envelope (4.12" x 9.5")	СОМ10	Yes	No	No
Monarch Envelope (3.87" x 7.5")	MONARC	Yes	No	No

C5 Envelope (6.38" x	C5	Yes	No	No
9.01")				
DL Envelope (4.33" x	DL	Yes	No	No
8.66")				
*	CUSTOM	Yes	Yes	Yes

supported paper sizes

paper type selection

Unlike paper sizes, the cassette trays have no mechanism to automatically detect the currently installed media type. Therefore, the user (or printer administrator) must inform the printer, via the control panel or a system utility, what media type is contained in each of the paper trays.

media types supported

The predefined media types supported by the printer are listed in the table below. The media type is the ASCII string reported by the formatter firmware and is the string used by the printer driver to select a media type for a given page or pages. The control panel name is used in control panel messages. Unlike the control panel names, the predefined media types are NOT localized (at the printer) for each of the supported languages.

If the printer driver does not specify a media type, size or tray for a given page, the formatter firmware will set the requested media type to the default media type. If the printer driver does not specify a media type but specifies a tray number, the firmware will set the media type to that of the tray selected according to the requested tray number. If the printer driver requests a media type for a given page that is not currently supported by the printer, the formatter firmware will force the printer into Manual Feed mode. This will result in a Manual Feed Paper Mount Request.

Media Name	Control Panel Name (Long)		Tray 2 & 3 (Cassette trays)	Duplexe r
Any	ANY	No	Yes	N/A
Plain Paper	PLAIN	Yes	Yes	Yes
HP Photo Quality	PHOTO QUALITY	Yes	Yes	Yes
Paper, Matte	MATT			
HP Premium Inkjet	PREMIUM INKJET	Yes	Yes	No
Paper				
HP Premium Inkjet	PREMIUM IJ	Yes	Yes	Yes
Heavyweight Paper	HEAVY			
HP Brochure &	BROCHURE	Yes	Yes	Yes
Flyer, Matte	MATTE			
HP Photo Paper,	PHOTO GLOSS	Yes	Yes	No
Glossy				
HP Premium Photo Paper, Glossy	PM PHOTO GLOSS	Yes	Yes	No

HP Premium Plus	РМ+ РНОТО	Yes	Yes	No
Photo Paper,	GLOSS			
Glossy				
HP Premium Plus	РМ+ РНОТО	Yes	Yes	No
Photo Paper, Matte	MATTE			
HP Colorfast Photo	COLORFAST	Yes	Yes	No
Paper, Glossy	рното			
HP Photo Quality	PHOTO QUALITY	Yes	Yes	Yes
Paper, Semi Gloss	GLOS			
HP Brochure &	BROCHURE	Yes	Yes	Yes
Flyer, Gloss	GLOSS			
HP Premium Inkjet	PREMIUM	Yes	Yes	No
Transparency	TRNSPRNCY			
HP Premium Plus	PREMIUM+	Yes	Yes	No
Inkjet Transparency	TRNSPRNCY			

supported media types

key driver improvements

The 3000 series includes the following driver improvements:

- compact PCL5 driver file size
- no EXE file in the printer driver
- no I/O contention problem between PCL5 and PS drivers
- robust network status solution
- support Novell printing configurations (NDPS and HP Gateway)

supported printer languages

The 3000 series supports the following printer languages:

- PCL6
- PCL5c
- PS

	decontration			
languag	description			
е				
PCL6	Object-based language			
	Designed to generate small print files ideal for printing over a network			
	Uses less memory and CPU time on the computer than HPA			
	Use to print from Windows 95/98/ME/2000/XP			
PCL5c	Object-based language			
	Designed to generate small print files ideal for printing over a			
	network			
	Uses less memory and CPU time on the computer than HPA			
	Use to print from Windows 95/98/ME/2000/XP			
PS	PostScript language			
	Designed for compatibility with PostScript level 3 needs			
	Use to print from Windows 95/98/ME/2000/XP			
	Use to print from Macintosh, Unix, and Linux			

printer languages

driver features and compatibility

Driver features include:

- basic printing features
- office focus features
- retail / small business features
- Smart features

Compatibility features include:

- compatible operating systems
- compatible enterprise network systems
- ٠

basic printing features

feature	PCI	.6 PC	L5c PS3
fast/normal/best print modes	Y	Y	Y
paper size/type/source	Y	Y	Y
custom paper size	Y	Y	Y
prientation	Y	Y	Y
number of copies	Y	Y	Y
ordered printing	Y	Y	

basic printing features

office focus features

feature	PCL5	PCL6	PS3
use different paper for first page	Y	Y	Y
use different paper for back page	Y	Y	Y
auto duplex	Y	Y	Y
zoomsmart	Y	Y	Y
print page borders	Y	Y	Y
watermark	Y	Y	Y
symmetrical margins	Y	Y	
emulate laserjet margins	Y	Y	
quick sets	Y	Y	Y
pantone color matching	Y	Y	Y
concept preview	Y	Y	Y
booklet printing	Y	Y	Y
colorsmart	Y	Y	
ink volume (using the toolbox)	Y	Y	

office focus features

retail / small business features

feature	PCL5	PCL6	PS3
booklet printing	Y	Y	Y
photoret	Y	Y	Y
NT form	Y	Y	
available tray	Y	Y	
size/type tray	Y	Y	

retail / small biz personal features

smart features

- ink level gauge (LCD & driver)
- media width (A4 vs. A3) sensing
- transparency sensing
- remote printer status, configuration & diagnostics with Embedded web server Auto pen alignment
- text based control panel with Job cancel button

operating systems compatibility:

The hp business inkjet 3000 series is compatible the following operating systems:

- MS Win95/98/ME
- MS WinNT 4.0
- MS Win2000/XP
- MacOS 8.1-9.5
- MacOSX
- Linux
- Unix Variants
- IBM OS/2 Warp
- MS-DOS

enterprise network compatibility:

The hp business inkjet 3000 series is compatible the following enterprise systems:

- Windows Terminal Services
- Citrix METAFRAME
- Novell ZenWorks
- NDPS
- Novell Netware 5.0/4.x

operating system & driver matrix

operating system	PCL6	PCL5	PS
Win95/98/ME	W, i	W, d	MS, o
WinNT 4.0	W, i	W, d	MS, o
Win 2000/XP	W, i	M, d	M, i
---------------	------	--------	------
MacOS 8.1-9.5			A, i
MacOSX			A, i
Linux			G, d
Unix Variants			G, d
OS/2 Warp		\sim	l, o
MS-DOS	D, o	D, o	D, o

operating system & driver matrix

W = HP Wizard driver, MS = Microsoft PS driver + PPD, M = HP Mombi driver, A = Apple PS Laserwriter driver + PPD, G = Gnu GPr PS driver + PPD, I = IBM PS driver + PPD, D = HP Deskjet 1600C driver

i = included with the product CD, d = downloadable from the web, o = other

files copied during installation

Installed files include:

- software toolbox (optional)
- MS USB Printing System (Win98/Me)
- Win95/98/Me Printer Drivers
- WinNT4.0 Printer Driver
- Win2000/XP Printer Drivers
- uninstaller
- MacOS 8.6-9.5
- MacOSX
- •

software toolbox (optional)

The target directory for software toolbox on a Win95/98/Me/NT4/2000/XP system is: C:\Program Files\Hewlett-Packard\hp business inkjet 3000 series\ToolBox

item	description
HPWETBX.EXE	Toolbox Executable
HPWEBUS.DLL	Status Server
HPWEC95.DLL	Common Services
HPWESVB.DLL	Basic Printer Services
HPWESVC.DLL	Printer Services
HPWETRE.DLL	Toolbox Resources
HPJCMN1.DLL	Federation SNMP
HPJPTS1.DLL	Federation SNMP
HPJSNM1.DLL	Federation SNMP
HPSFOOEW.DLL	Embedded Web Server Services
MSVCRT.DLL	MSVC run-time library
HPWEERR.INI	Script for toolbox resource test
HPWETBX.HLP	Toolbox Windows Help File
HPWETBX.CHM	Toolbox Compiled HTML Help
HHCTRL.OCX*	Microsoft HTML Help Control

software toolbox files

MS USB printing system (Win98/Me)

The target directory for MS USB printing system (Win98/Me) on a Win98 system is:

- Printer driver to C:\Windows\system32\drivers\
- Port monitor to C:\Windows\system
- INF file to C:\Windows\inf

item description

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USBPRINT.SYS	Microsoft USB Printer Driver (kernel mode)
USBMON.DLL	Microsoft USB Port Monitor
HP30USB.INF	Add Printer INF file
HP30USB.CAT	Catalog File

MS USB printing system (Win98/ME) files

Win95/98/ME printer drivers

The target directories for the printer drivers on a Win95/98/Me system are:

- Driver files: C:\Windows\system
- INF file: C:\Windows\inf

PCL5 drivers

files	files
HPBAFD16.DLL	Appflags DLL
HPBFAB.DDU	Keep Driver
HPBFAB16.DLL	OS Code Thunk 16
HPBFAB32.DLL	OS Code Thunk 32
HPBFTM16.DLL	HP PFM Library 16
HPBFTM32.DLL	HP PFM Library 32
HPBF7430.DRV	Driver File
HPBF7430.PMD	Driver Data File
HPBF7430.HLP	Driver Help File
HP3000P5.INF	Add Printer INF file
HP30P59X.CAT	Catalog File
HPDMC16.DLL	DMC Driver 16
HPDMC32.DLL	DMC Driver 32
HPBFXMMA.DLL	Mutex DLL
HPIJ3000.CFG	DMC Configuration File
HPBCFGRE.DLL	Configuration Editor Resource File (Not installed)

Win95/98/ME PCL5 files

PCL6 drivers

files	files
HPBAFD16.DLL	Appflags DLL
HPBFAB.DDU	Keep Driver
HPBFAB16.DLL	OS Code Thunk 16
HPBFAB32.DLL	OS Code Thunk 32
HPBFTM16.DLL	HP PFM Library 16
HPBFTM32.DLL	HP PFM Library 32
HPBF7420.DRV	Driver File
HPBF7420.PMD	Driver Data File
HPBF7420.HLP	Driver Help File

HP3000P6.INF	Add Printer INF file
HP30P69X.CAT	Catalog File
HPDMC16.DLL	DMC Driver 16
HPDMC32.DLL	DMC Driver 32
HPBFXMMA.DLL	Mutex DLL
HPIJ3000.CFG	DMC Configuration File
HPBCFGRE.DLL	Configuration Editor Resource File (Not installed)
HPWELMN.DLL	Language Monitor

Win95/98/ME PCL6 driver files

PS drivers

files	files	
HP3000.PPD	Postscript Printer Description File	
PSCRIPT.DRV	Microsoft Postscript Driver	
PSCRIPT.HLP	Microsoft Driver Help File	
PSCRIPT.INI	Microsoft Configuration File	
FONTS.MFM	Microsoft Font Metric File	
CONLIB.DLL	Microsoft Shared Library	
HP3000PS.INF	Add Printer INF file	
HP30PS9X.CAT	Catalog File	

Win95/98/ME PS driver files

WinNT4.0 printer drivers

The target directories for the printer drivers on a WinNT 4.0 system are:

- Driver files: C:\WinNT\system32\spool\drivers\w32x86
- Driver files (kernel mode): C:\WinNT\system32\spool\drivers\w32x86\2
- INF file: C:\WinNT\inf

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PCL5 drivers

files	files
HPBAFD32.DLL	Appflags DLL
HPBFTM32.DLL	OS Code Thunk 32
HPBF7430.DLL	Driver Config File
HPBF7432.DLL	Driver File
HPBF7434.PMD	Driver Data File
HPBF7430.HLP	Driver Help File
HP3000P5.INF	Add Printer INF file
HPCDMC32.DLL	DMC Driver 32
HPIJ3000.CFG	DMC Configuration File
HPBCFGRE.DLL	Configuration Editor Resource File (Not installed)
HPBMINI.DLL	Enterprise Auto Configuration (EAC) File
HPBF7434.HPI	EAC File

ATL.DLL	EAC File
HPBMIAPI.DLL	EAC File
HPBNRAC2.DLL	EAC File
HPBOID.EXE	EAC File
HPBOIDPS.DLL	EAC File
HPBPRO.EXE	EAC File
HPBPROPS.DLL	EAC File
HPJCMN2U.DLL	EAC File
HPJIPX1U.DLL	EAC File
HPNRA.EXE	EAC File
HPPAPMLO.DLL	EAC File
HPPAPMLO.EXE	EAC File
HPPAPTSO.DLL	EAC File
HPPASNM0.DLL	EAC File

WinNT4.0 PCL5 driver files

PCL6 drivers

files	files
HPBAFD32.DLL	Appflags DLL
HPBFTM32.DLL	OS Code Thunk 32
HPBF7420.DLL	Driver Config File
HPBF7422.DLL	Driver File
HPBF7424.PMD	Driver Data File
HPBF7420.HLP	Driver Help File
HP3000P6.INF	Add Printer INF file
HPCDMC32.DLL	DMC Driver 32
HPIJ3000.CFG	DMC Configuration File
HPBCFGRE.DLL	Configuration Editor Resource File (Not installed)
HPBMINI.DLL	Enterprise Auto Configuration (EAC) File
HPBF7424.HPI	EAC File
ATL.DLL	EAC File
HPBMIAPI.DLL	EAC File
HPBNRAC2.DLL	EAC File
HPBOID.EXE	EAC File
HPBOIDPS.DLL	EAC File
HPBPRO.EXE	EAC File
HPBPROPS.DLL	EAC File
HPJCMN2U.DLL	EAC File
HPJIPX1U.DLL	EAC File
HPNRA.EXE	EAC File
HPPAPMLO.DLL	EAC File
HPPAPMLO.EXE	EAC File
HPPAPTSO.DLL	EAC File
HPPASNM0.DLL	EAC File

WinNT4.0 PCL6 driver files

PS drivers

files	files	
HP3000.PPD	Postscript Printer Description File	
PSCRIPT4.DLL	Microsoft Postscript Driver (v4.5)	
PSCRIPT4.HLP	Microsoft Driver Help File	
PS4UI.DLL	Microsoft User Interface DLL	
PSCRIPT.NTF	Microsoft Device Font Information	
HP3000PS.INF	Add Printer INF file	
HPBJRPS4.DLL		
HPBJRPS4.INI		
HPBJRUI4.DLL	lob Retention Files	
HPBJSTR4.DLL		
HPBOEM80.NTF		

WinNT 4.0 PS driver files

Win2000/XP printer drivers

The target directories for the printer drivers on a Win2000/XP system are:

- Driver files: C:\WinNT\system32\spool\drivers\w32x86
- Driver files (user mode): C:\WinNT\system32\spool\drivers\w32x86\3
- INF file: C:\WinNT\inf

• PCL5 drivers

files	files
HPBAFD32.DLL	Appflags DLL
HPBFTM32.DLL	OS Code Thunk 32
HPBF743E.DLL	Driver Config File
HPBF743G.DLL	Driver File
HPBF7431.PMD	Driver Data File
HPBF743E.HLP	Driver Help File
HP3000P5.INF	Add Printer INF file
HP30P52K.CAT	Catalog File
HPCDMC32.DLL	DMC Driver 32
HPIJ3000.CFG	DMC Configuration File
HPBMINI.DLL	Enterprise Auto Configuration (EAC) Files
HPBF743I.HPI	EAC File
HPBMIAPI.DLL	EAC File
HPBNRAC2.DLL	EAC File
HPBOID.EXE	EAC File
HPBOIDPS.DLL	EAC File
HPBPRO.EXE	EAC File
HPBPROPS.DLL	EAC File
HPJCMN2U.DLL	EAC File
HPJIPX1U.DLL	EAC File

HPNRA.EXE	EAC File
HPPAPMLO.DLL	EAC File
HPPAPTSO.DLL	EAC File
HPPASNM0.DLL	EAC File

Win2000/XP PCL5 driver files

PS drivers

files	files			
PSCRIPT5.DLL	Microsoft Postscript Driver (v5.0)			
PSCRIPT5.DLL	Microsoft User Interface DLL			
PSCRIPT.HLP	Microsoft Driver Help File			
PSCRIPT.NTF	Microsoft Device Font Information			
HPPRN04.DLL	Print Processor			
HPCUI04.DLL				
HPCPRD04.DLL				
HPWM5300.PPD	Postscript Printer Description File			
HPWM5300.XML				
HPMOMBI3.DTD				
HPCSTR04.DLL				
HPCLJX04.HLP				
HPW3000S.INI				
HPOEM.NTF				
HPCDMC32.DLL	DMC Driver 32			
HPIJ3000.CFG	DMC Configuration File			
HPBCFGRE.DLL	Configuration Editor Resource File (Not installed)			
HP3000PS.INF	Add Printer INF file			
HP30PS2K.CAT	Catalog File			
HPBMIAPI.DLL	Enterprise Auto Configuration (EAC) File			
HPBOID.EXE	EAC File			
HPBOIDPS.DLL	EAC File			
HPBPRO.EXE	EAC File			
HPBPROPS.DLL	EAC File			
HPPAPTSO.DLL	EAC File			
HPPASNMO.DLL	EAC File			
HPPAPMLO.DLL	EAC File			
HPZIPR12.DLL	EAC File			
HPZIPT12.DLL	EAC File			
HPZISN12.DLL	EAC File			
HPZINW12.DLL	EAC File			
HPZIPM12.DLL	EAC File			

Win2000/XP PS driver files

WinXP64 printer drivers

The target directories for the printer drivers on a Win2000/XP system are:

- Driver files: C:\WinNT\system32\spool\drivers\w32x86
- Driver files (user mode): C:\WinNT\system32\spool\drivers\w32x86\3
- INF file: C:\WinNT\inf

PCL5 & PCL6 drivers

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files	files
HP3000P5.INF	Add Printer INF file
HP30P564.CAT	Catalog File
HPCLJX04.HLP	
HPCMAC04.GPD	
HPCRD04.DLL	
HPCSTR04.DLL	
HPCUI04.DLL	
HPMOMBI3.DTD	
HPPRN04.DLL	Print Processor
HPW30005.INI	
HPW30005.INI	Driver Data File
HPWM5300.XML	
HPWMAC04.GPD	
PCL5ERES.DLL	
STDNAMES.GPD	
UNIDRV.DLL	
UNIDRV.HLP	
UNIDRVUI.DLL	
UNIRES.DLL	
HPCDMC64.DLL	DMC Driver 64
HPIJ3000.CFG	DMC Configuration File

WinXP64 PCL5 & PCL6 driver files

PS drivers

files	files	
HP3000PS.INF	Add Printer INF file	
HP30PS64.CAT	Catalog File	
HPCLJX04.HLP		
HPCPRD04.DLL		
HPCSTR04.DLL		
HPCUI04.DLL		
HPMOMBI3.DTD		
HPOEM.NTF		
HPPRN04.DLL		
HPW3000S.INI		

HPWM5300.PPD	Postscript Printer Description File	
HPWM5300.XML		
PS5UI.DLL	User Interface DLL	
PSCRIPT.HLP	Driver Help File	
PSCRIPT.NTF	Device Font Information	
PSCRIPT5.DLL	Postscript Driver	
HPCDMC64.DLL	DMC Driver 64	
HPIJ3000.CFG	DMC Configuration File	

WinXP64 PS driver files

uninstaller

The target directory for uninstaller on a Win95/98/Me/NT4/2000/XP system is: C:\Program Files\Hewlett-Packard\hp business inkjet 3000 series\Uninstall

item description			
_ISDEL.EXE	The install engine cleanup utility		
SETUP.EXE	Uninstaller executable		
_SETUP.DLL	Resource DLL used by setup.exe		
layout.bin			
lang.dat	Localized strings for the language selection dialog		
OS.DAT	OS data file		
INST32I.EX	InstallShield's 32-bit install engine		
_SYS1.HDR	InstallShield's header file		
_USER1.HDR	InstallShield's header file		
DATA1.HDR	InstallShield's header file		
setup.ins	Compiled install program		
SETUP.LID	InstallShield's language definition file		
ciuninst.ini	General Uninstaller Information File		
setup.ini	InstallShield's initialization file		
DATA.TAG	Tag file used for disk image identification		
_SYS1.CAB	InstallShield's cabinet file for its support files		
_USER1.CAB	Cabinet file for other support files		
DATA1.CAB	Data cabinet file for compressed components		
<compname>.HUF</compname>	Installed components information files		

uninstaller files

MacOS 8.6-9.5 PS printer drivers

The target directories for the printer drivers on a Win2000/XP system are:

- PPD file: Macintosh HD (or the name of your Hard Drive) : System Folder : Extensions : Printer Descriptions : HP Business Inkjet 3000
- Desktop Print Spooler: Macintosh HD (or the name of your Hard Drive) : System Folder : Extensions : Desktop Print Spooler
- Desktop Print Monitor: Macintosh HD (or the name of your Hard Drive) : System Folder : Extensions : Desktop PrintMonitor

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MacOSX 10.0.0-10.2.1 PS printer drivers

The target directories for the printer drivers on a Win2000/XP system are:

- PPD file: Macintosh HD (or the name of your Hard Drive) : Library : Printers : PPDs : Contents : Resources : en.lproj
- Print Dialog Extensions in: Macintosh HD (or the name of your Hard Drive) : Library : Printers : hp : Frameworks :

troubleshooting process

Quick troubleshooting steps includes:

- check the printer setup
- check printer connectivity
- check the computer
- •

check the printer setup

- Plug in and power on the printer, allowing it to initialize.
- Check the LCD control panel for an error message.
- Ensure the printheads and ink cartridges are properly installed
- Print a demo page. If the demo page is generated, the printer is working properly.

check printer connectivity

- Check that the USB or parallel cable between the printer and the computer or HP JetDirect print server is connected securely.
- If the printer is networked, check that the network cable is connected securely, and the link-light is on.

check the computer

- If the printer is networked, check that the network is accessible from the computer.
- Ensure the driver settings are properly configured. (correct printer selected, print job is not sent to a locked tray, etc.)
- Check the driver version. If the problem is that the printer prints a nonsense version of the document, updating the driver may solve the problem. Visit the HP Web site to download the latest drivers.
- Check that too many programs are not open when trying to perform a task. Close programs that are not in use, or restart the computer before attempting the task again.
- Print a test page. If the test page is generated, the printing sequence is working properly.

jam rates

Media feed errors include:

- jam rates
- multi-feed rates
- •

jam rates

A jam rate is the number of times the printer will have a paper jam per X number or pages.

Tray 2 and 3

- special media Max. 1 per 500 pages
- labels Max. 1 per 500 pages
- OHT Max. 1 per 500 pages

Manual feed / Multipurpose tray

- heavy weight media Max. 1 per 500 pages
- Envelopes Max. 1 per 500 pages
- Post cards Max. 1 per 500 pages
- OHT Max. 1 per 500 pages

multi-feed rates

A multi-feed rate is the number of times the printer will incorrectly pick multiple sheets of paper per X number or pages.

Tray 2 and 3

- special media Max. 1 per 500 pages
- labels Max. 1 per 500 pages
- OHT Max. 1 per 500 pages

crew/user-replaceable parts

The following parts are the user replaceable parts or CREW parts that can be fixed by the Customer Care Center:

 Door - Main Access SVC #C8116-67002 			
 Assy - Manual Trough SVC 	#C8116-67009		
• Assy - O/P Tray SVC	#C8116-67010		
• Assy - Tray 2 SVC	#C8116-67011		
• Assy - Door Access SVC #C81	16-67012		
 Assy - Pick Roller SVC 	#C8116-67019		
 Assy - Separation Roller SVC 	#C8116-67020		
 Snap-On Foot SVC 	#C8116-67023		
 Cover - DIMM SVC 	#C8116-67030		
 Assy - Simplexer SVC 	#C8116-67062		
 Assy - Duplexer SVC 	#C8116-67063		
• Assy - Tray 3 SVC	#C8116-67071		
• MP Tray 1 SVC	#C8116-67072		

repackaging the printer for return to hp

When repackaging the printer:

remove ink supplies.

remove trays and accessories

pack the printer

remove ink supplies

To remove the ink cartridges and printheads:

Lift the printhead / ink cartridge access cover. on the right side of the printer.

Carefully remove the ink cartridges from the ink supply station.

Press the SELECT button (checkmark icon). This unlocks the carriage assembly from the parked position.

Lift the printhead cover lock-lever and carefully remove the printheads from the carriage assembly.

To remove the printheads when the printer does not power on:

Remove the warranty void label from the stopper-latch located on the right side cover above the printhead cover lock-lever.

Unclip the stopper-latch from the printer right side cover, and slide the stopper-latch out to the left.

Lift the printhead cover lock-lever and carefully remove the printheads from the carriage assembly.

remove trays and accessories

Remove Tray 1 or trough from the rear of the printer.

Remove Tray 2 from the front of the printer.

Remove the duplexer or simplexer from the front of the printer.

Remove the output tray, pulling it straight out.

Remove EIO accessories (JetDirect card, hard disk)

Remove the printer from the Tray 3 base.

pack the printer

Pack the printer, ensuring that the printer is not turned upside down during transportation.

Pack Tray 2, Tray 1 / rear trough, the output tray, and Tray 3 separately.

setting up an exchanged unit

When setting up an exchanged unit: install Tray 3 base unit (if applicable) install duplexer or simplexer unit install manual feed trough or multi-purpose tray (Tray1) install Tray 2 install the output tray install EIO cards (jetdirect, etc.) install ink supplies power on the printer

product escalation path by region

Product escalation path offered by region:

- USA
- Canada
- Latin America
- Europe
- Asia Pacific
- •

USA

Support Flow: End Customer->Call Center->Response Center->Division->

Escalation Flow: End Customer->Call Center->Response Center->Division->

Canada

Support Flow: End Customer->Call Center->Response Center->Division-> Escalation Flow: End Customer->Call Center->Response Center->Division->

Latin America

Support Flow: End Customer->Call Center->Response Center->Division-> Escalation Flow: End Customer->Call Center->Response Center->Division->

Europe

Support Flow: End Customer->Call Center->Response Center->Division-> Escalation Flow: End Customer->Call Center->Response Center->Division->

Asia Pacific

Support Flow: End Customer->Call Center->Response Center->Division-> Escalation Flow: End Customer->Call Center->Response Center->Division-> Module





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menu map

ienu map (commo	on functions)	1
INFORMATION	PAPER HANDLING 2	
PRINT MENU MAP	TRAY 1 SIZE=	
PRINT CONFIGURATION 2	TRAY 1 TYPE= 2 PLAIN	
PRINT SUPPLIES S 3	TRAY 2 SIZE= 3 LETTER	
SUPPLIES STATUS 4	TRAY 2 TYPE= 4	
BLACK CARTRIDGE: 1		
CYAN CARTRIDGE: 2		
MAGENTA CARTRIDGE: 3		
YELLOW CARTRIDGE: 4		
BLACK PRINTHEAD: 5		
CYAN PRINTHEAD: 6		
MAGENTA PRINTHEAD: 7		
YELLOW PRINTHEAD: 8		
PRINT USAGE PAGE 5		
PRINT DEMO		
PRINT PCL FONT LIST 7		
PRINT PS FONT LIST 8		

menu map

To print a menu map:

- 1. Press the SELECT button (check-mark icon) on the LCD control panel.
- 2. Press the DOWN button (down arrow icon) to highlight INFORMATION and then press SELECT.
- 3. Press the DOWN button to highlight PRINT MENU MAP, and then press SELECT.

The control panel menu structure

The LCD control panel displays the following menus:

- retrieve job menu
- information menu
- paper handling menu
- configure device menu
- printing submenu
- print quality submenu
- system setup submenu
- I/O submenu
- resets submenu
- diagnostics menu

If a JetDirect EIO card is installed, the following will be displayed:

• configure device: I/O: JetDirect menu

retrieve job menu

The retrieve job menu displays all stored jobs. You can scroll through the list to find and select a specific job. If the printer has no stored jobs, the LCD control panel displays the message NO STORED JOBS.

information menu

message	value	description
PRINT MENU MAP	N.A.	Prints a map of the printer menu structure.
PRINT CONFIGURATION		Prints a page describing current configuration settings (such as firmware version, model, accessories installed, I/O support, or other details). If an HP Jetdirect print server is installed, a second page will be printed, which displays the settings for the HP Jetdirect print server.
PRINT SUPPLIES STATUS PAGE		Prints the estimated remaining life for the supplies and lists statistics on the total number of pages and jobs processed. This item also shows ink cartridge manufacture date, serial number, page counts, and maintenance information.
SUPPLIES STATUS	N.A.	Displays the supplies status in a scrollable list.
PRINT USAGE PAGE		Prints a count of all media sizes that have passed through the printer; lists whether they were simplex, duplex, monochrome, or color; and reports the page count.
PRINT DEMO	N.A.	Prints a demonstration page.
PRINT FILE DIRECTORY		Prints the name and directory of files stored on an optional hard disk.
PRINT PCL FONT LIST	N.A.	Prints the available PCL fonts.
PRINT PS FONT LIST	N.A.	Prints the available emulated PostScript (PS) fonts.

information menu description

paper handling menu

message	value	description
TRAY 1 SIZE		Selects media size loaded in Tray 1. Default = LETTER
ТҮРЕ		Selects media type loaded in Tray 1. Default = PLAIN
TRAY 2 SIZE		Displays the current size configuration for the tray. Sizes are detected by the printer tray. To use a custom size, load the media in the tray and adjust the length and width guides to fit snugly against the media. Default = LETTER
TRAY 2 TYPE		Selects media type loaded in tray 2. Default = PLAIN
TRAY 3 SIZE	A4 JISB5 JEXEC CUSTOM ANY CUSTOM	Displays the current size configuration for the tray. Sizes are detected by the printer tray. To use a custom size, load the media in the tray and adjust the length and width guides to fit snugly against the media. This item is displayed only whenTray 3 is installed. Default = LETTER

TRAY 3	ANY PLAIN PHOTO GLOSS Selects media type loaded in Tray	/
TYPE	PHOTO QUALITY GLOSS PHOTO β. This item is displayed only whe	en
	QUALITY MATTE PREMIUM INKJET Tray 3 is installed. Default = PLAI	Ν
	PREMIUM IJ HEAVY BROCHURE	
	GLOSS BROCHURE MATTE PM	
	Photo gloss PM+ Photo	
	GLOSS PM+ PHOTO MATTE	
	PREMIUM TRNSPRNCY	
	PREMIUM+ TRNSPRNCY	
	COLORFAST PHOTO	

paper handling menu description

configure device menus

printing submenu

message	value	description
COPIES	1 - 32000	Sets the number of copies to print. Default = 1
DEFAULT PAPER SIZE	LETTER LEGAL EXECUTIVE A4 A6 ISOB5 JISB5 JEXEC JPOST JPOSTD COM10 ENVELOPE MONARCH ENVELOPE C5 ENVELOPE DL ENVELOPE CUSTOM	Sets the default media size. Default = LETTER
DEFAULT CUSTOM PAPER SIZE	unit of measure X dimension Y dimension	Sets the unit of measurement and dimensions for jobs that have no dimensions. The values can be set independently and apply to any jobs that are sent without dimensions. Default = INCHES
PAPER TYPE	ANY PLAIN PHOTO GLOSS PHOTO QUALITY GLOSS PHOTO QUALITY MATTE PREMIUM INKJET PREMIUM IJ HEAVY BROCHURE GLOSS BROCHURE MATTE PM PHOTO GLOSS PM+ PHOTO GLOSS PM+ PHOTO MATTE PREMIUM TRNSPRNCY PREMIUM+ TRNSPRNCY COLORFAST PHOTO	Sets a default media type. Default = PLAIN
DUPLEX	OFF ON	This item appears only when an auto-duplex unit is installed. Set the value to ON to print on both sides (duplex) or OFF to print on one side (simplex) of a sheet of paper. For more information, see "Load paper and configure media types and sizes." Default = OFF

DUPLEX BINDING	long edge short edge	This item appears only when an auto-duplex unit is installed and the duplex option is on. Choose the binding edge when duplexing (printing on both sides of paper). For more information, see "Load paper and configure media types and sizes." Default = LONG EDGE
override A4/ letter	NO YES	Sets the printer to print an A4 job on letter-size paper when no A4 paper is loaded, or to print a letter-size job on A4 paper when no letter-size paper is loaded. Default = NO
MANUAL FEED	OFF ON	Feeds media manually. Default = OFF
Courier Font	REGULAR DARK	Selects a version of the Courier font. Default = REGULAR
WIDE A4	NO YES	Changes the printable area of A4 paper so that eighty 10-pitch characters may be printed on a single line. Default = NO
PRINT PS ERRORS	OFF ON	Prints a list of PS errors. Default = OFF
PCL	Form length orientation Font source font number Font pitch symbol set Append cr to lf	Configures settings for printer control language (PCL), also known as the printer personality.

configure device: printing submenu description

print quality submenu

message	value	description
ALIGN	N.A.	Begins the printhead alignment process.
PRINTHEADS		
COLOR	N.A.	Begins the color calibration process.
CALIBRATION		
linefeed	N.A.	Begins the linefeed calibration process.
CALIBRATION		
CLEAN	N.A.	Begins the printhead cleaning process.
PRINTHEADS		
REPLACE	N.A.	Moves the printhead carriage to allow users to replace
PRINTHEADS		the printheads.
DEFAULT	DRAFT	Selects the default level for print quality. This setting is
QUALITY LEVEL	NORMAL	used if the print job contains no print-quality selection.
	BEST	Default = NORMAL

	AUTO	Selects the normal mode for print quality. SPEED prints
MODE	SPEED	at the best possible speed, with less concern for print
printing	QUALITY	quality. QUALITY prints at a predetermined quality level with less concern for print speed. AUTO
		combines speed and quality settings depending on the health of the printhead. Default = AUTO

configure device: print quality submenu description

system setup submenu

message	value	description
IOB STORAGE LIMIT		Sets the maximum number of jobs that can be stored on the printer. (This item appears only if the printer has an optional hard disk installed.) Default = 32
IOB HELD TIMEOUT	OFF 1 HOUR 4 HOURS 1 DAY 1 WEEK	Sets how long the printer stores a copy of the iob on its optional hard disk. (This item appears only if the printer has an optional hard disk installed.) Default = OFF
TRAY BEHAVIOR	USE REQUESTED TRAY MANUALLY FEED PROMPT	Specifies settings for the tray-selection behavior. USE REQUESTED TRAY requires the printer to print from only the tray specified. MANUALLY FEED PROMPT requires you to press (select button) on the LCD control panel before printing begins.
POWERSAVE TIME	2 minutes 15 minutes 30 min utes 1 hour 90 minutes 2 hours 4 hours	Reduces power consumption when the printer has been inactive for an extended period. Default = 30 MINUTES
PERSONALITY	AUTO PCL PS	Sets the default personality to automatic switching, PCL, or PostScript emulation. Default = AUTO
Clearable Warnings	IOB ON	Sets the length of time that a clearable warning is displayed on the LCD control panel. If JOB is selected, warnings are displayed until the end of the current job. If ON is selected, warnings are displayed until you press (select button). Default = JOB
auto Continue	OFF ON	Determines printer behavior when the system generates an Auto Continuable error. Default = ON
SUPPLIES LOW	STOP CONTINUE	Sets the printing action to be taken when the low supplies setting is reached for ink catridges only. low supplies. Default = CONTINUE
LANGUAGE	A list of available anguages appears	Sets the default language. Default = ENGLISH

configure device: system setup submenu description

message	value	description
I/O TIMEOUT	5 - 300	Sets the length of time (in seconds) that the printer waits for remaining data for a print job. After this time, the printer prints the print job. Default = 15.
PARALLEL INPUT	HIGH SPEED ADVANCED FUNCTIONS	Accesses two options: HIGH SPEED enables fast parallel port communication with the host. If the printer is connected to an older computer, you may want to disable this option. ADVANCED FUNCTIONS allows you to enable or disable the bi- directional parallel communication. If you disable this option, the host will not receive any messages from the Printer Status and Alerts software.
EIO X JETDIRECT	TCP/IP IPX/SPX APPLETALK DLC/LLC LINK SPEED	Accesses submenus for an EIO accessory, such as the HP Jetdirect print server.

I/O submenu

configure device: I/O submenu description

resets submenu

message	value	description
restore Factory Settings		Restores all values (except those for an HP Jetdirect print server) to the predetermined factory values of the printer. CAUTION:
		Use the restore option on this menu with caution. You can lose printer configuration settings when you select these items. Reset the printer only when you want to restore the printer's default settings or when the communication between the printer and computer has been interrupted.
POWERSAVE	OFF ON	Enables and disables Powersave. Default = ON

configure device: resets submenu description

diagnostics menu

message	description
PRINT EVENT	Prints the last 50 entries in the printer's event log, starting with
LOG	the most recent event.
SHOW EVENT	Displays the last 50 events on the LCD control panel display,
LOG	starting with the most recent event.
PAPER PATH	Tests the paper handling features of the printer.
TEST	

diagnostics menu description

JetDirect menu

messag	value	description
е		
,	enable configure method manual settings	Enable or disables the TCP/IP menu and set the TCP/IP protocol parameters. In the TCP/IP menu, you can specify BOOTP=YES or DHCP=YES for TCP/IP parameters to be automatically configured by a BootP or DHCP server when the printer is turned on. If you specify BOOTP=NO and DHCP=NO, you can manually set the following TCP/IP parameters from the LCD control panel: Each byte of the IP address (IP) Subnet Mask (SM) Syslog Server (LG) Default Gateway (GW) Idle Timeout period (default is 270 seconds; 0 disables the timeout) When setting IP numbers, press (up arrow button) to increase the number by 1. Press (select button) to make your selection.
	ENABLE FRAME TYPE	Enables the IPX/SPX menu, which you can use to set the IPX/SPX protocol parameters. In the IPX/SPX menu, you can specify the frame type parameter used on your network. The default is AUTO, which automatically sets and limits the frame type to the one detected. For Ethernet cards, frame type selections include EN_8023, EN_II, EN_8022, and EN_SNAP. For Token Ring cards, frame type selections include TR_8022 and TR_SNAP. In the IPX/SPX menu for Token Ring cards, you can also specify NetWareSource Routing parameters, which include SRC RT=AUTO (default), OFF, SINGLE R, or ALL RT.
APPLETALK	ENABLE	Enables or disables the AppleTalk protocol.
DLC/LLC	enable	Enables or disables the DLC/LLC protocol.
link speed	link speed Mode	Manually sets the link speed (10 or 100 Mbs) and mode (Full or Half Duplex).

configure device: I/O: JetDirect menu description

demo page





hp business inkjet 3000 series

fast, cost effective, full featured color printer for workgroups

breakthrough speeds

up to 14ppm monochrome and 8ppm color in Normal mode; up to 21ppm monochrome and 18ppm color in Fast mode.

built for business

high-capacity ink cartridges and lowest cost of ownership with robust duty cycles of up to 30,000 pages per month.

intelligent networking

connect to the network as easily and reliably as any hp LaserJet printer with PCL 5,6 & PS 3 as a standard.

www.hp.com

demo page

To print a demo page:

- 1. Press the SELECT button (check-mark icon) on the LCD control panel.
- 2. Press the DOWN button (down arrow icon) to highlight INFORMATION, and press SELECT.

3. Press the DOWN button (down arrow icon) until PRINT DEMO is highlighted, then press SELECT.

The demo page verifies printer functionality but does not verify functionality of the computer to printer connection. The demo page is also known as a sample page. Print a demo page to diagnose problems and to verify functionality of the printer hardware.

configuration page



configuration page

1 - JetDirect Pa	ge			
HP JetDirect Configu atus: I del Number: Indware Address: Immare Version: It Config: to Negotiation: Inifacturing ID: Ite Manufactured: - Security Setting min Password: L/TLS: It Expires: N MP Versions: N MP Versions: MP Set Cmty Name: cess List: Ital Packets Received: tal Packets Received: tal Packets Received: aning Errors Received: tal Packets Received: tal Packets Received: isst Name: Address: 22 ist Name: Address: 22 ist Name: Server: 20 TP Server: 20 TP Server: 20 TP Server: 20 TP Server: NS Server: NS Server: NS Server:	uration 1/0 Card Ready 36057A 0001E6580A87 R.22.09 100TX HALF On c22414490 C22 11/2001 gs	IPX/SP Status: Primary Frame Type: Network Frame Type Unknown EN_802,2 NOT CONFIGURED Node Name: NOS CONTExt: Attached Server: SAP Interval: Attached Server: SAP Interval: Mame: Type 1: Type 2: Node Number: Node Number: Nod	Initializing Auto Select Royd 17 tWare	

EIO configuration page

To print a configuration page:

- 1. Press the SELECT button (check-mark icon) on the LCD control panel.
- 2. Press the DOWN button (down arrow icon) to highlight INFORMATION and then press SELECT.
- 3. Press the DOWN button (down arrow icon) until PRINT CONFIGURATION PAGE is highlighted, then press SELECT.

general printer configuration

The printer configuration page provides information on printer identification and firmware versions, hardware configuration in terms of trays, RAM, installable options (personalities, expansion RAM, EIO cards), networking, and consumables status. A configuration page verifies printer hardware functionality but does not verify the functionality of the computer to printer connection.

item	description
printer information	Shows general printer information such as firmware version number, model name, and memory installed.
event log	Shows the number of entries in use, maximum number of entries, and the last three events on the LCD control panel, starting with the most recent.
installed personalities and options	Shows the printer languages (personalities) in use, and contents of the printer's DIMM slots and EIO slots.
memory	Shows the amount of RAM and Automatic Resource Saving Information.
security	Shows whether the LCD control panel is locked and whether a password is enabled.
paper trays and options	Shows the printer's installed trays and their media type and size settings.

EIO device configuration

For each EIO expansion card installed, an EIO configuration page will be printed. A JetDirect configuration page will be available on the 3000n and 3000dtn, or if a JetDirect EIO module is installed on the printer.

item	description
hp jetdirect	Shows general information about the JetDirect card such as
configuration	firmware version number, model number, and network hardware address.
security settings	Shows admin password, SSL settings (for the embedded web server), SNMP community name, and access list.
network statistics	Shows ethernet network statistics such as total packets transmitted, total packets received, and errors such as collisions and bad packets.
TCP/IP	Shows TCP/IP protocol settings such as host name, IP address, subnet mask, default gateway, DNS and WINS servers.
IPX/SPX	Shows IPX/SPX protocol settings such primary frame type.
novell/netware	Shows Novell/Netware settings such as node name, NetWare mode, and Novell directory services settings such as NDS tree name and context.
appletalk	Shows AppleTalk protocol settings such name, zone, network number and node number.
DLC/LLC	Shows DLC/LLC status

JetDirect EIO configuration page description

supplies status page



supplies status page

To print a supplies status page:

- 1. Press the SELECT button (check-mark icon) on the LCD control panel.
- 2. Press the DOWN button (down arrow icon) to highlight INFORMATION, and press SELECT.
- 3. Press the DOWN button (down arrow icon) until PRINT SUPPLIES STATUS PAGE is highlighted, then press SELECT.

Print a supplies status page to determine the longevity of ink supplies and to diagnose problems related to low ink levels. HP product numbers, serial numbers, and ordering information are listed, in addition to recycling information for returning supplies to HP.

usage page

			01H53			
Product Name: hp	p business ink	jet 3000				
Usage Totals			-			
PRINTER		SIMPLEX		DUPLEX		
Page Size	Count	Units	Count	Units	Total 0.0	
LETTER	255	1.0	2	2.0	259.0	
LEGAL A4	0	1.3	0	2.6 2.0	0.0	
EXECUTIVE	0	0.8	0	1.6	0.0	
ENVELOPE # ENVELOPE M	0	0.4	**	**	0.0	
ENVELOPE C	0	0.6	**	**	0.0	
ENVELOPE D B5(JIS)	0	0.4	**		0.0	
CUSTOM	0	1.0	0	2.0	0.0	
POSTCARD(J DPOSTCARD(0	0.5		**	0.0	
EXECUTIVE(0	1.1	0	2.2	0.0	
A6 85(1S0)	0	1.0	**	**	0.0	
TOTAL PRINTER USAG	ε	1.0			259.0	
C. T. Dissiph						
Total Black Inh	Usage (ml)	8.28				
Total Cyan Ink	Usage (ml)	1.65				
Total Magenta	Ink Usage (ml) 1.65				
		,				

usage page

To print a usage page:

- 1. Press the SELECT button (check-mark icon) on the LCD control panel.
- 2. Press the DOWN button (down arrow icon) to highlight INFORMATION, and press SELECT.
- 3. Press the DOWN button (down arrow icon) until PRINT USAGE PAGE is highlighted, then press SELECT.
Print a usage page to determine the total number and type of pages printed and total amount of ink used since the printer was manufactured.

verifying settings



9. 1	Wait for the LCD display to show "Install Supplies";
10. (Open the printhead cover;
	Wait for the carriage to move to the "change printhead" position. If the carriage does not move to the "change printhead" position, press the SELECT (green tick or check) button once while the printhead cover is open;
	Open the printhead latch on the carriage and install the printheads that were removed from the defective printer;
	Close the printhead latch. Make sure the hook engages with the steel catch. If not, the carriage will jam repeatedly;
14. (Close the printhead and ink cartridge covers;
16. 17. 18.	 While waiting for the printer to complete self-calibration, use the information from the printed menu map to configure the replacement printer in the same way the defective printer was configured. This includes (but is not limited to) the following items: a. Tray paper types and sizes (from the PAPER HANDLING menu); b. Default custom paper size settings in the CONFIGURE DEVICE/PRINTING menu; c. The PCL settings in the CONFIGURE DEVICE/PRINTING menu; d. The system setup settings in the CONFIGURE DEVICE/SYSTEM SETUP menu; e. The tray behavior settings in the CONFIGURE DEVICE/SYSTEM SETUP menu; f. The I/O settings in the CONFIGURE DEVICE/RESETS menu; h. All other appropriate control panel menu settings; i. All configuration settings for any JetDirect EIO network cards and/or JetDirect network boxes; Once self-calibration is complete and successful and the printer is idle (no activity and LCD display shows READY), print a demo page from the INFORMATION menu and an appropriate test page from a computer connected to the printer to verify proper function. If any of the self-calibration procedures do not complete successfully, manually repeat the faile self-calibration procedure using the menu items from the CONFIGURE DEVICE/PRINT QUALITY menu; Pack the defective printer in the packaging used for the replacement unit;
Edwin H Product : Business Hewlett 1 Telnet: 8 DID: +6	d and written by: IAN Support Manager s Printing Division (BPD) Packard Singapore 831 6530 5 6361 6530 dwin-vk_han@hp.com

before making modifications to the printer

Before you tear down a printer or as you are replacing a printer, use this customer service checklist to gather printer configuration information so you can properly configure the printer afterwards. Gathering this information is especially important if you anticipate replacing entire printer, the Logic PCA, restoring the factory settings (RESET menu), or resetting the HP JetDirect EIO Print Server card. You need to keep this information for your reference, especially during troubleshooting and any subsequent reinstallation procedures that you may need to perform.

You will need this to check the serial number of the NVRAM during the final hardware test.

after repairs are complete

After you repair the printer, reprogram it with the user's customized settings that you have already noted. After you have reset all the customized settings, reprint a menu map and configuration page and check it against the original to ensure that all the settings are correct. Ensure that all the customized settings have been reset, before returning the printer to the customer.

service menu

To access the service menu:

- 1. Press the SELECT button (check-mark icon) on the LCD control panel.
- 2. Press the DOWN button (down arrow icon) to highlight SERVICE MENU and then press SELECT.
- 3. Enter the 6 digit PIN (Personal Identification Number) number and press SELECT.
- The factory set PIN number follows the format: MMTTTTYY.
- M is the (2 digit) month the product was released
- Y is the (2 digit) year the product was released
- TTTT is the product series (eq. 3000).

message	value	description
CLEAR EVENT	N.A.	Clears all events listed in the Event Log. This feature can
LOG		be useful when tracking an issue.
TOTAL MONO	0-	Tracks the number of pages printed using only black.
PAGES	9999999	Default = 9
TOTAL COLOR	0-	Tracks the number of pages printed using any color
PAGES	9999999	other than black. Default = 9
SERIAL	N.A.	Displays the printer serial number. The serial number
NUMBER		displayed in the LCD control panel should match the
		serial number tag located on the rear of the printer.
Service ID	N.A.	Displays a number for printer administrators to reference
		when contacting customer support.
COLD RESET	Letter A4	Specifies the default paper size after a cold reset.
PAPER		

service menu description

boot menu

To access the boot menu:

- 1. Turn off the printer.
- 2. Press and hold the DOWN button (down arrow icon), and turn the printer on.
- 3. When the LED lights are lit continuously, and the LCD displays "064mb" with two rows of asterisks (******), release the DOWN button.
- 4. Press the UP button (up arrow icon) once.
- 5. Press the RESUME button (right arrow icon) once.

message	description
SKIP DISK LOAD	Boots the printer so that it will not execute any stored print jobs
	hat may be queued on the hard drive.
SKIP CALIBRATION	Boots the printer to READY mode without performing any of the
	printer calibration procedures.
MANUFACTURIN	Skips all the mechanical initialization procedures. Printer boots
G	directly to READY mode. This is useful for getting the printer
	ready for firmware flashing if you are having difficulty booting
	and initializing the printer.
NVRAM INIT	Resets ALL NVRAM values, including any installed EIO
	letDirect cards, the serial number stored in NVRAM and the
	service ID. Please exercise caution. If the EIO JetDirect NVRAM
	values (IP address, settings, etc.) need to be maintained,
	remove the card from the printer before performing a NVRAM
	NIT.

boot menu description

align printheads



align printheads process

To begin the automatic printhead alignment process:

- 1. Press the SELECT button (check-mark icon) on the LCD control panel.
- 2. Press the DOWN button (down arrow icon) until CONFIGURE DEVICE is highlighted, then press SELECT.
- 3. Press the DOWN button until PRINT QUALITY is highlighted, then press SELECT.

4. Press the DOWN button to highlight ALIGN PRINTHEADS, then press SELECT. The printhead alignment process is used to align the printheads.

clean printheads



To begin the automatic printhead cleaning process:

- 1. Press the SELECT button (check-mark icon) on the LCD control panel.
- 2. Press the DOWN button (down arrow icon) until CONFIGURE DEVICE is highlighted, then press SELECT.
- 3. Press the DOWN button until PRINT QUALITY is highlighted, then press SELECT.

4. Press the DOWN button until CLEAN PRINTHEADS is highlighted, then press SELECT.

The printhead cleaning process is used to clean the printheads.

replace printheads



replace printheads process

To begin the printhead replacement process:

- 1. Press the SELECT button (check-mark icon) on the LCD control panel.
- 2. Press the DOWN button (down arrow icon) until CONFIGURE DEVICE is highlighted, then press SELECT.
- 3. Press the DOWN button until PRINT QUALITY is highlighted, then press SELECT.

4. Press the DOWN button until REPLACE PRINTHEADS is highlighted, then press SELECT.

The printhead replacement procedure is used to determine if printheads need replacement.

color calibration process



To begin the color calibration process:

- 1. Press the SELECT button (check-mark icon) on the LCD control panel.
- 2. Press the DOWN button (down arrow icon) until CONFIGURE DEVICE is highlighted, then press SELECT.
- 3. Press the DOWN button until PRINT QUALITY is highlighted, then press SELECT.

4. Press the DOWN button until COLOR CALIBRATION is highlighted, then press SELECT.

The color calibration process is used to calibrate the color.

linefeed calibration process



linereea calibration paç

To begin the linefeed calibration process:

- 1. Press the SELECT button (check-mark icon) on the LCD control panel.
- 2. Press the DOWN button (down arrow icon) until CONFIGURE DEVICE is highlighted, then press SELECT.
- 3. Press the DOWN button until PRINT QUALITY is highlighted, then press SELECT.
- 4. Press the DOWN button until LINEFEED CALIBRATION is highlighted, then press SELECT.

The linefeed calibration process is used to adjust the swath height error and line height.

exploded view



s. no.	part name	part number	service level	bar code
1.	Bulkpack - Maxwell Base SVC	C8116-	NV	
		67001		
2.	Door-Main Access SVC	C8116-	CREW	
		67002	- D /	
3.	Cap - Side Left SVC	C8116-	NV	
4.	Cover Rear SVC	67003 C8116-	NV	
4.	Cover Redr SVC	67004		
5.	BELT, A-SIZE SVC	C8116-	V	
р. 		67005	v	
6.	Cover-Front Left SVC	C8116-	NV	
с. Г		67006		
7.	Cover-Rail Left SVC	C8116-	NV	
		67007		
8.	Cover-Rail Right SVC	C8116-	NV	
		67008		
9.	Assy-Manual Trough SVC	C8116-	CREW	
		67009		IA ANNI AANN AANN AANN
10.	Assy-O/P Tray SVC	C8116-	CREW	
		67010		
11.	Assy-Tray 2 SVC	C8116-	CREW	
		67011	-	
12.	Assy-Door Access SVC	C8116-	CREW	
1.0		67012		
13.	Assy-Case Main SVC	C8116-	NV	
14.	Assur Care Diskt SVC	67013 C8116-	NV	
14.	Assy-Cap Right SVC	67014		
15.	Assy-Keypanel SVC	C8116-	NV	
13.		67015		
16.	Assy-Cover Front Right SVC	C8116-	NV	
		67016		
17.	Stopper-Latch SVC	C8116-	NV	
		67017		
18.	Label-Warranty Void SVC	C8116-	NV	
		67018		
19.	Assy-Pick Roller SVC	C8116-	CREW	
		67019		
20.	Assy-Separation Roller SVC	C8116-	CREW	
		67020		10 01111 00111 00110 11011 001
21.	Assy-MSS Tray2 SVC	C8116-	NV	
		67021		
22.	SPRING-XBIAS, DUPLEXER SVC	C8116-	NV	
		67022		

23.	Snap-on Foot SVC	C8116- 67023	CREW	
24.	SENSOR-TRANSPARENCY SVC	C8116- 67024	NV	
25.	SOLENOID-OVERDRIVE SVC	C8116- 67025	NV	
26.	PCA-ANALOG, A-SIZE SVC	C8116- 67026	NV	
27.	Box-Engine SVC	C8116- 67027	NV	
28.	Box-Formatter SVC	C8116- 67028	NV	
29.	Assy-Box-EIO SVC	C8116- 67029	NV	
30.	Cover-DIMM SVC	C8116- 67030	CREW	
31.	Cover-Formatter SVC	C8116- 67031	NV	
32.	PCA-Compton SVC	C8116- 67032	NV	
33.	PCA-Interconnect Tray1 SVC	C8116- 67033	NV	
34.	Assy-PS Module SVC	C8116- 67034	NV	
35.	Assy-Cable, Maxwell Left SVC	C8116- 67035	NV	
36.	Assy-Cable Maxwell Right SVC	C8116- 67036	NV	
37.	Harness 1-Power Supply SVC	C8116- 67037	NV	
38.	Harness-Power On SVC	C8116- 67038	NV	
39.	ASSY-FELT OILER, 4-PENSVC	C8116- 67039	V	
40.	Tray-Reservoir SVC	C8116- 67040	NV	
41.	COVER-CONNECTOR, 4-PEN SVC	C8116- 67041	V	
42.	ASSY-TRAILING CABLE SVC	C8116- 67042	V	
43.	Assy-Carriage SVC	C8116- 67043	V	
44.	PCA-MAIN, OFFICE SVC	C8116- 67044	V	
45.	Envelope Adjust SVC	C8116- 67045	NV	
46.	ASSY-BELT TENSIONER SVC	C8116- 67046	NV	

47.	ASSY-SERVICE STATION, 4-PEN	C8116-	NV	
10		67047		
48.	ASSY-INK SUPPLY STATION, A- SIZE SVC	C8116- 67048	NV	
49.	ASSY-REPLACEABLE IDS, A-SIZE	C8116-	NV	
50.	SVC ASSY-OVERDRIVE SVC	67049 C8116-	NV	
		67050		
51.	ASSY-CONVERGER GUIDE, FRONT SVC	C8116- 67051	V	
52.	ASSY- CONVERGER	C8116-	V	
5.0		67052		
53.	ASSY-CONVERGER GUIDE, LOWER SVC	C8116- 67053	V	
54.	ASSY POSTHEATER	C8116-	NV	
	W/AEROSOL, A-SIZE SVC	67054		
55.	Blower-Vacuum SVC	C8116-	NV	
		67055		
56.	BEARING-CONVERGER ROLLER	C8116-	V	
	SVC	67056		
57.	Assy-Separation Trough SVC	C8116-	V	
		67057		
58.	Tray 2/3-RP Guide SVC	C8116-	V	
50		67058		
59.	Assy-Edge Sensor SVC	C8116- 67059	V	
60.	STRAP-BLOWER MOUNTING	C8116-	NV	
	svc	67060		
61.	SHIELD-EMI, FLEX CABLE SVC	C8116-	NV	
		67061		
62.	Assy-Simplexer SVC	C8116-	CREW	
		67062		
63.	Assy-Duplexer SVC	C8116-	CREW	
		67063		
64.	Assy-PCA Linefeed encoder SVC	C8116-	V	
		67064		
65.	Ferrite Core CP SVC	C8116-	NV	
		67065		
66.	Spring-encoder svc	C8116- 67066	NV	
67.	ENCODER STRIP, A-SIZE SVC	C8116-	NV	
	, _	67067		
68.	Support-Front Left SVC	C8116-	NV	
		67068		
69.	Titanium SVC	C8116-	NV	
		67069		
70.	Assy-Elevator Drive SVC	C8116-	NV	
		67070		10 8000 8000 8800 1880 880

71.	Assy-Tray 3 SVC	C8116- 67071	CREW	
72.	MP Tray 1 SVC	C8116- 67072	CREW	

exploded view parts

teardown tree

teardown tree



hp 3000 teardown tree, part 1



hp 3000 teardown tree, part 2

predicted high failure rate parts

part name	part number	AFR%
Door - Main Access SVC	C8116-67002	10
Assy - O/P Tray SVC	C8116-67010	10
Assy - Tray 2 SVC	C8116-67011	10
Assy - Door Access SVC	C8116-67012	10
label - Warranty Void SVC	C8116-67018	8
Bulkpack - Maxwell Base SVC	C8116-67001	7
ASSY-REPLACEABLE IDS, A-SIZE SVC	C8116-67049	7
ASSY-SERVICE STATION, 4-PEN	C8116-67047	6
Assy - Simplexer SVC	C8116-67062	6
Cap - Side Left SVC	C8116-67003	5
Cover - Rear SVC	C8116-67004	5
Cover - Front Left SVC	C8116-67006	5
Assy - Case Main SVC	C8116-67013	5
Assy - Cap Right SVC	C8116-67014	5
Assy - Keypanel SVC	C8116-67015	5
Assy - Cover Front Right SVC	C8116-67016	5
Stopper - Latch SVC	C8116-67017	5
Cover - DIMM SVC	C8116-67030	5
ASSY-INK SUPPLY STATION, A-SIZE SVC	C8116-67048	5

These parts need repair on a more frequent basis.

predicted high failure rate parts (in order of AFR%)

Parts not listed in the above table have an AFR% of less than 5.



The tools required to disassemble the printer are:

- 1. flathead screwdriver
- 2. long torx drivers (T10 and T20)
- 3. probe
- 4. phillips-head screwdriver
- 5. needle-nosed and standard pliers

crew parts

Door-Main Access SVC

C8116-67002



- 1. Open the door.
- 2. Note the orientation of the plastic hinges. Guard against breakage.
- 3. From the back of the printer with hands low on the door, pull the door straight back to release the hinges.

Assy-O/P Tray SVC

C8116-67010



Remove the part by following these steps:

1. Remove the output tray by pulling it straight out of the printer (do not lift it).



C8116-67011



Remove the part by following these steps:

1. Slide tray 2 straight out.

Assy-Simplexer SVC

C8116-67062



Remove the part by following these steps:

- 1. A D printed in the upper left corner indicates a duplexer is installed, otherwise it is a simplexer.
- 2. Grab the center of the bottom of the simplexer/duplexer and pull it straight out.

Assy-Duplexer SVC

C8116-67063



Remove the part by following these steps:

- 1. A D printed in the upper left corner indicates a duplexer is installed, otherwise it is a simplexer.
- 2. Grab the center of the bottom of the simplexer/duplexer and pull it straight out.

Assy-Manual Trough SVC

C8116-67009



The manual trough is in the back of the printer. This same bay is used for the MP Tray 1. Grab the center of the bottom of the manual trough (tray 1) and pull it straight out.

MP Tray 1 SVC

C8116-67072



The manual trough is in the back of the printer. This same bay is used for the MP Tray 1. Grab the center of the bottom of the manual trough (tray 1) and pull it straight out.



Remove the part by following these steps:

- 1. The DIMM cover is just below tray 2 in the back of the printer.
- 2. Insert a small, flathead screwdriver into the slot at the top of the cover.
- 3. Push down gently and remove the DIMM cover.

Assy-Door Access SVC

C8116-67012



Remove the part by following these steps:

- 1. Fully open the access door.
- 2. Note how the upper part of the door is attached to the hinge unit.
- 3. Pull straight back, applying pressure close to the hinges, to remove the door without damaging the hinges.

Snap-on Foot SVC

C8116-67023



Remove these first:

- 1. Door-Main Access SVC
- 2. Assy-Door Access SVC
- 3. Assy-Cap Right SVC
- 4. Cap Side Left SVC
- 5. Assy-Cover Front Right SVC

Remove the part by following these steps:

- 1. Use needlenosed pliers to push the core of the foot down from the top of the foot (inside the printer).
- 2. Once the core is removed, the foot can be easily pulled from the printer.

3. Assy-Pick Roller SVC C8116-67019



First, remove these parts:

- 1. Output Tray
- 2. Tray 2
- 3. Simplexer/Duplexer.

- 1. Reach in through the Simplexer/Duplexer bay to access the roller.
- 2. Pinch the plastic tab at the left end of the roller and slide it off the shaft.

Assy-Separation Roller SVC

C8116-67020



First, remove these parts:

- 1. Output Tray
- 2. Tray 2
- 3. Simplexer/Duplexer.

- 1. Reach in through the Simplexer/Duplexer bay to access the roller.
- 2. Pinch the plastic tab at the left end of the roller and slide it off the shaft.

Assy-Tray 3 SVC

C8116-67071



Tray 3 is in Titanium. Simply slide Tray 3 out of Titanium.

non V-coded parts

PCA-Interconnect Tray1 SVC

C8116-67033



First, remove these parts:

Tray 1

- 1. Remove the two screws securing the PCA.
- 2. Pull the wire connector from the back of the PCA.

SPRING-XBIAS, DUPLEXER SVC

C8116-67022



First, remove these parts:

- 1. Output Tray
- 2. Duplexer

- 1. The spring is on the right side behind the plastic rail that the duplexer slides into.
- 2. To remove the plastic rail, you need to slide it toward the center of the printer, but first, you need to release a locking tab. The locking tab is located in the center of the plastic rail.
- 3. Use a flat screwdriver to gently bend the plastic tab away from the wall (toward the center of the duplexer bay) while gently pushing the rail toward the center of the printer. When the tab is bent out just enough, the rail will slide forward.
- 4. Take off the rail.
- 5. Maneuver the spring out of the metal slots.

Titanium SVC

C8116-67069



Remove the part by following these steps:

- 1. Use two people to lift the printer.
- 2. Lift the printer off of Titanium.

Assy-Elevator Drive SVC

C8116-67070



First, remove these parts:

Titanium

- 1. Remove the paper tray from Titanium.
- 2. Turn over Titanium and find the elevator drive cover.
- 3. Remove the four screws in the cover.
- 4. Ease out the elevator drive.
- 5. Separate the wire connector going to the drive motor.
Assy-MSS Tray2 SVC

C8116-67021



First, remove these parts:

- 1. Output Tray
- 2. Tray 2
- 3. The media sensor is attached to the bottom of the printer, under Tray 2.

Then remove this part by following these steps:

- 1. Separate the wire connector leading to the media size sensor assembly.
- 2. Use needlenosed pliers to release the tabs securing the media size sensor assembly to the underside of the printer.

Cap - Side Left SVC

C8116-67003



Remove the part by following these steps:

- 1. Remove two screws from the back.
- 2. Pull the cover straight back.

Assy-Cap Right SVC

C8116-67014



Remove the part by following these steps:

- 1. Remove three screws: two from the back and one from the top (inside).
- 2. Pull the cover straight back.

Cover Rear SVC

C8116-67004



First, remove these parts:

- 1. Door-Main Access SVC
- 2. Assy-Door Access SVC

- 3. Assy-Cap Right SVC
- 4. Cap Side Left SVC

Then remove this part by following these steps:

- 1. Remove five screws: three from the top, one from the left side, and one from the bottom.
- 2. Note that the DIMM cover will be removed with the back cover.
- 3. Note the plastic connections in the center of the back cover window. Guard against breakage.
- 4. Gently pull the cover straight back, minding any installed DIMM cards.

Assy-Cover Front Right SVC

C8116-67016



First, remove these parts:

- 1. Ink Cartridges
- 2. Assy-Door Access SVC
- 3. Assy-Cap Right

- 1. Remove two screws, one on the right side of the cover and one on the left.
- 2. Rock cover forward and remove.

ASSY-INK SUPPLY STATION, A-SIZE SVC

C8116-67048



First, remove these parts:

- 1. Ink Cartridges
- 2. Assy-Door Access SVC
- 3. Assy-Cap Right SVC
- 4. Cover Right Front SVC

- 1. Separate the two wire connectors in the front of the ISS.
- 2. Pull the two wire connectors from the corner and right side of the ISS.
- 3. Remove the groundwire screw from the bottom center of the ISS.
- 4. Remove the two screws on the top left of ISS to free up the removable ink delivery system (RIDS) on the left side of the ISS.
- 5. Lift off the RIDS and gently set it aside.
- 6. Grasp the front, top of the ISS firmly and ease it out.

Assy-PS Module SVC

C8116-67034



First, remove these parts:

- 1. Assy-Door Access SVC
- 2. Assy-Cap Right SVC

- 1. Pull the wire connector from the front of the PS module.
- 2. Free the wires in the back of the PS module from their retaining clips and pull the two wire connectors from the back.
- 3. Remove one screw on the back of the printer and three from the right side.
- 4. Slide the PS module straight out of the printer to the right.

Tray-Reservoir SVC

C8116-67040



First, remove these parts:

- 1. Assy-Door Access SVC
- 2. Assy-Cap Right SVC
- 3. Assy-PS Module SVC

Then remove this part by following these steps:

1. Remove the two screws that secure the tray to the top of the PS module.

Blower-Vacuum SVC

C8116-67055



First remove Assy Cap-Side Left (C8116-67003).

- 1. Disconnect the vacuum wires from the PCA-Analog.
- 2. Remove one screw from the top of the vacuum and move the strap.
- 3. Remove the vacuum blower from the printer.
- 4. The plastic vacuum blower cap can be separated from the metal body.

5. STRAP-BLOWER MOUNTING SVC

C8116-67060



Remove the Cap - Side Left SVC and Blower-Vacuum SVC.

- 1. With the strap hanging down, use the needle-nose pliers to squeeze the lockingtab end of the strap.
- 2. Ease the locking-tab end up through the slot.

PCA-ANALOG, A-SIZE SVC

C8116-67026



First remove Assy Cap-Side Left (C8116-67003).

- 1. Pull the six wire connectors from the PCA.
- 2. Remove one screw from the top of the PCA and one from the side.
- 3. Remove the PCA from the printer (front first to free it from its retainer).

Envelope Adjust SVC

C8116-67045



Remove the Cap-Side Left to access the envelope adjust solenoid.

Then remove this part by following these steps:

- 1. Separate the wire connector leading to the solenoid.
- 2. Squeeze the front and back of the plastic cage surrounding the solenoid.
- 3. The envelope adjust solenoid will easily come out. The spring, rod, and actuator are held together only by tension when installed. As soon as they are removed, they will tumble apart.

Label-Warranty Void SVC

C8116-67018



Peel off the label prior to removing the stopper latch.

Stopper-Latch SVC

C8116-67017



Remove the warranty void label.

Then slide out the stopper latch.

ASSY-SERVICE STATION, 4-PEN SVC

C8116-67047



First, remove these parts:

- 1. Assy-Door Access SVC
- 2. Access Cover
- 3. Right Cap
- 4. Release the carriage from its locked position by following the appropriate procedure (<u>with power</u> or <u>without power</u> on page 5-95). Slide the carriage to the left out of the way of its home area.

Then remove this part by following these steps:

- 1. Follow the wire harness leading from the Service Station Assy to two wire connectors. Unplug those two connectors.
- 2. With a long screwdriver, reach through the main case toward the back of the printer to remove two screws that secure the top of the Service Station Assy to the printer frame.
- 3. Remove one additional similar screw from the printer frame near the front of the printer in the carriage home area. The Service Station Assy will drop down toward the power supply.
- 4. Slide the Service Station Assy out of the printer with wires attached.

SOLENOID-OVERDRIVE SVC

C8116-67025



First, remove these parts:

Cap - Side Left SVC

- 1. Separate the wire connector leading to the solenoid.
- 2. Remove the two screws that secure the solenoid to the printer (inside the Simplexer/Duplexer bay).
- 3. Remove the solenoid from the printer.

ASSY-OVERDRIVE SVC

C8116-67050



First, remove these parts:

- 1. Cap Side Left SVC
- 2. SOLENOID-OVERDRIVE SVC

- 1. Reach in through the Simplexer/Duplexer bay and grasp the center of the overdrive.
- 2. Slide it to the left and the right side of the shaft will be free.
- 3. Note the flat slot on the left end of the shaft. Slide it out of the left side.

Assy-Keypanel SVC

C8116-67015



- 1. Open the Main Access Door
- 2. Remove the two screws securing the Keypanel Assy.
- 3. Tilt the Keypanel Assy forward and pull the two wire connectors (and one wire retainer) from the assembly.
- 4. Continue tilting the Keypanel Assy forward and remove it from the printer.

Cover-Formatter SVC

C8116-67031



First, remove these parts:

- 1. Door-Main Access SVC
- 2. Assy-Door Access SVC
- 3. Assy-Cap Right SVC
- 4. Cap Side Left SVC
- 5. Cover Rear SVC

- 1. Remove the four screws from the left side of the formatter box.
- 2. Slide the formatter cover to the left and remove it.

Box-Formatter SVC

C8116-67028



First, remove these parts:

- 1. Door-Main Access SVC
- 2. Assy-Door Access SVC
- 3. Assy-Cap Right SVC
- 4. Cap Side Left SVC
- 5. Cover Rear SVC
- 6. Cover-Formatter SVC

Then remove this part by following these steps:First, remove these parts:

- 1. Pull the two wire connectors from the Compton PCA.
- 2. Remove one screw from the lower right inside corner of the formatter box.
- 3. Remove one screw from the upper right outside corner of the formatter box.
- 4. Remove the formatter box, including the Compton PCA.

PCA-Compton SVC

C8116-67032



First, remove these parts:

- 1. Door-Main Access SVC
- 2. Assy-Door Access SVC
- 3. Assy-Cap Right SVC
- 4. Cap Side Left SVC
- 5. Cover Rear SVC
- 6. Cover-Formatter SVC
- 7. Box-Formatter SVC

Then remove the PCA from the box by following these steps:

- 1. Removing the six screws securing the PCA to the box.
- 2. Lift it out of the box by the parallel connector on the left side.

SHIELD-EMI, FLEX CABLE SVC

C8116-67061



Before removing the EMI shield, remove these parts:

- 1. Door-Main Access SVC
- 2. Assy-Door Access SVC
- 3. Assy-Cap Right SVC
- 4. Cap Side Left SVC
- 5. Cover Rear SVC
- 6. Cover-Formatter SVC

Remove the EMI flex cable shield.

Box-Engine SVC

C8116-67027



First, remove these parts:

- 1. Door-Main Access SVC
- 2. Assy-Door Access SVC
- 3. Assy-Cap Right SVC
- 4. Cap Side Left SVC
- 5. Cover Rear SVC
- 6. Cover-Formatter SVC
- 7. Box-Formatter SVC

- 1. Disconnect the two ribbon cables from the main PCA inside the engine box.
- 2. Slide the ribbon connectors up through the top of the engine box.
- 3. Pull the wire connectors (six of them) from the main PCA.
- 4. Remove one screw from the outside upper right corner of the engine box and one from the inside lower right corner.
- 5. Slide the engine box to the left and out of the printer with the PCA inside (feeding all the wires through the bottom of the box.
- 6. Remove the main PCA from the engine box by removing the seven screws that secure it to the box.

Assy-Box-EIO SVC

C8116-67029



First, remove these parts:

- 1. Door-Main Access SVC
- 2. Assy-Door Access SVC
- 3. Assy-Cap Right SVC
- 4. Cap Side Left SVC
- 5. Cover Rear SVC
- 6. Cover-Formatter SVC
- 7. Box-Formatter SVC
- 8. PCA-Compton SVC
- 9. Box-Engine SVC
- 10. PCA-MAIN, OFFICE SVC

Then remove this part by following these steps:

Remove the four screws holding the EIO Assy Box to the printer.

SENSOR-TRANSPARENCY SVC

C8116-67024



First, remove these parts:

- 1. Assy-Cap Right SVC
- 2. Ink Service Station SVC

- 1. The transparency sensor passes through the wall behind the ink service station assy.
- 2. Pull the wire connector from the sensor.
- 3. Pull the sensor out.

Cover-Front Left SVC

C8116-67006



First, remove these parts:

Cap - Side Left SVC

- 1. Removing the front left cover is a matter of releasing the plastic tabs that hold it on the printer.
- 2. Start at the top. Insert a flat screwdriver under one of the two tabs that are a few centimeters below the top of the cover. Press each of the tabs up and pull the cover out just until the tab clears.
- 3. Then move to the next tab down, which is on the right side of the cover about halfway up. You can release it by inserting a probe into the round hole in the metal case on the right side of the cover.
- 4. Finally, there is a tab near the bottom on the right side. Press it to the right with the flat screwdriver. After releasing this last tab, remove the cover.

Ferrite Core CP SVC

C8116-67065



First, remove these parts:

Assy-Keypanel SVC

- 1. Prior to removing the main case assy., the ferrite core of the wire harness for the key panel must be removed so the harness can be pulled through its routing hole in the main case.
- 2. The wire connector is threaded through the ferrite core twice and secured. Reverse this to remove it.

ASSY-REPLACEABLE IDS, A-SIZE SVC

C8116-67049



First, remove these parts:

- 1. Door-Main Access SVC
- 2. Assy-Door Access SVC
- 3. Assy-Cap Right SVC
- 4. Assy-Cover Front Right SVC
- 5. Assy-Case Main SVC
- 6. Cover Rear SVC

- 1. Remove the seven screws that secure the ink delivery system (IDS) to the printer (three on the end in the printhead chamber, two on inktube support clamps, and two in the ink-cartridge chamber).
- 2. Raise the cover of the printhead chamber.
- 3. Starting at the printhead chamber, lift up the end of the IDS, the inktube, and then the end in the ink-cartridge chamber.

Assy-Case Main SVC

C8116-67013



First, remove these parts:

- 1. Door-Main Access SVC
- 2. Assy-Door Access SVC
- 3. Cover Rear SVC

- 1. Separate the remaining wire connector on the keypanel wire harness, so that the main part of the harness can pass back through the routing hole in the main case.
- 2. Remove the four screws on the back of the printer that secure the case (two near the right side and two on the left side).
- 3. Lift off the main case allowing the keypanel wires to retract through the routing hole.

ASSY-BELT TENSIONER SVC

C8116-67046



First, remove these parts:

- 1. Door-Main Access SVC
- 2. Assy-Door Access SVC
- 3. Assy-Cap Right SVC
- 4. Cap Side Left SVC
- 5. Cover Rear SVC
- 6. Assy-Case Main

- 1. Release the spring from the metal tab.
- 2. Slide the tensioner to the left and remove from the printer.

Support-Front Left SVC

C8116-67068



First, remove these parts:

- 1. Door-Main Access SVC
- 2. Assy-Door Access SVC
- 3. Assy-Cap Right SVC
- 4. Cap Side Left SVC
- 5. Cover Rear SVC
- 6. Assy-Case Main

Then remove this part by following these steps:

Remove the two screws on the support to take it off the printer. The lower screw connects a ground wire to the support.

ASSY POSTHEATER W/AEROSOL, A-SIZE SVC

C8116-67054



First, remove these parts:

- 1. Door-Main Access SVC
- 2. Assy-Door Access SVC
- 3. Assy-Cap Left SVC
- 4. Assy-Cap Right SVC
- 5. Cover-Front Left SVC
- 6. Cover-Front Right SVC
- 7. Cover Rear SVC
- 8. Assy-Case Main SVC
- 9. Support-Front Left SVC

- 1. User pliers to pop loose the wire harness retainer for the large white wire harness on the front of the postheater assembly.
- 2. Remove one screw from the lower left corner of the postheater assembly.
- 3. Separate the connector on the large wire harness that leads to the assembly.

- 4. Pull from the analog board (lower right corner) the three wire connectors that lead to the postheater assembly.
- 5. Reach under the printer with needle nose pliers and pop loose the wire harness retainer to the right of the analog board.
- 6. Use a flat screwdriver to release the plastic tab on the right side of the postheater assembly
- 7. Pull the assembly out toward the front of the printer, right side first.

ENCODER STRIP, A-SIZE SVC

C8116-67067



First, remove these parts:

- 1. Door-Main Access SVC
- 2. Assy-Door Access SVC
- 3. Assy-Cap Right SVC
- 4. Cap Side Left SVC
- 5. Cover Rear SVC
- 6. Assy-Case Main SVC
- 7. PCA-MAIN, OFFICE SVC
- 8. SPRING-ENCODER SVC

- 1. Release both ends of the encoder strip.
- 2. Thread it gently out of the carriage to remove from the printer.

SPRING-ENCODER SVC

C8116-67066



First, remove these parts:

- 1. Door-Main Access SVC
- 2. Assy-Door Access SVC
- 3. Assy-Cap Right SVC
- 4. Cap Side Left SVC
- 5. Cover Rear SVC
- 6. PCA-MAIN, OFFICE SVC

Then remove this part by following these steps:

1. Remove the encoder spring from the right side of the printer.

Cover-Rail Right SVC

C8116-67008



First, remove these parts:

- 1. Door-Main Access SVC
- 2. Assy-Door Access SVC
- 3. Assy-Cap Right SVC
- 4. Cap Side Left SVC
- 5. Assy-Cover Front Right SVC
- 6. Cover-Front Left SVC

- 1. Use a flat screwdriver to gently pry down the two plastic tabs on the bottom of the rail cover.
- 2. Free the bottom of the rail cover and roll it out and up to remove it.

Cover-Rail Left SVC

C8116-67007



First, remove these parts:

- 1. Door-Main Access SVC
- 2. Assy-Door Access SVC
- 3. Assy-Cap Right SVC
- 4. Cap Side Left SVC
- 5. Assy-Cover Front Right SVC
- 6. Cover-Front Left SVC

- 1. Use a flat screwdriver to gently pry down the two plastic tabs on the bottom of the rail cover.
- 2. Free the bottom of the rail cover and roll it out and up to remove it.

Bulkpack - Maxwell Base SVC

C8116-67001



The bulkpack is the main frame of the printer. Dissassembly down to this level is the full dissassembly of the printer...and thus the removal of all parts.

Assy-Cable, Maxwell Left SVC

C8116-67035



Assy-Cable Maxwell Right SVC

C8116-67036



First, remove these parts:

- 1. Door-Main Access SVC
- 2. Assy-Door Access SVC
- 3. Assy-Cap Right SVC
- 4. Cover Right Front SVC
- 5. ASSY-INK SUPPLY STATION, A-SIZE SVC
- 6. Assy-PS Module SVC
- 7. ASSY-SERVICE STATION, 4-PEN SVC

- 1. Use needle-nosed pliers to release any plastic retaining clips.
- 2. Thread the harness out of the retaining supports.

Harness 1-Power Supply SVC

C8116-67037



First, remove these parts:

- 1. Door-Main Access SVC
- 2. Assy-Door Access SVC
- 3. Assy-Cap Right SVC
- 4. Cover Right Front SVC
- 5. ASSY-INK SUPPLY STATION, A-SIZE SVC
- 6. Assy-PS Module SVC
- 7. ASSY-SERVICE STATION, 4-PEN SVC

- 1. Use needle-nosed pliers to release the plastic retaining clips from the bottom of the printer in the back.
- 2. Thread the harness out of the retaining supports.
Harness-Power On SVC

C8116-67038



First, remove these parts:

- 1. Door-Main Access SVC
- 2. Assy-Door Access SVC
- 3. Assy-Cap Right SVC
- 4. Cover Right Front SVC
- 5. ASSY-INK SUPPLY STATION, A-SIZE SVC
- 6. Assy-PS Module SVC
- 7. ASSY-SERVICE STATION, 4-PEN SVC

Then remove this part by following these steps:

- 1. Use needle-nosed pliers to release the plastic retaining clips from the bottom of the printer in the front and the back.
- 2. Thread the harness out of the metal retaining supports.

Carriage Release With Power To release the printhead carriage when power is available:

- 1. With the power on, lift the Access Door.
- 2. Press the green checkmark button to release the printhead carriage.
- 3. Unplug the printer power cord.
- 4. Now the printhead release lever can be lifted to remove the printheads, or the carriage can be slid manually to the left.

Carriage Release Without Power To release the printhead carriage and gain access to the printheads when no power is available:

- 1. Remove the Access Door, Warranty Void Label, Stopper Latch, and Cap-Side Right.
- 2. Firmly grasp the metal spindel of the carriage motor with pliers and rotate the carriage motor until the carriage releases.
- 3. Now the carriage can be slid manually to the left.



troubleshooting power-on problems

message	value	description
power-on and	Access doors or vents open	Check the Access Doors: Make sure the Top Cover and Carriage Access Cover are firmly closed. If the LCD panel displays the message CLOSE ALL COVERS, open and close all access doors. Check the vents: If the printer's vents are covered, and the printer overheats, it automatically turns off. Make sure the vents are not covered and the printer is in a cool, dry location.
	Cause 2: Power cord incompatibilities	Make sure the printer is connected to the power cord, that the power cord is plugged in, and that the power cord can handle 230V. To test the power cord: Power off the printer, unplug the power cord and replace it with a new power cord, then power on the printer. If the printer now works, then the power cord was faulty.
	voltage of Power Supply module	Disconnect the PS harness from the PS module. Use a multimeter to check the output voltages of the Power Supply Assembly. They should measure same as what's printed on PS module label. Reconnect the PS harness when you are finished. Turn the printer off and then on again.
	Cause 5: Faulty	Check that all connections to the harnesses are solid and that all connectors are attached firmly to the wires. Ensure that none of the wire insulation is frayed or missing. Check PS voltages at the destination ends of the harnesses.

If the logic PCA or power supply is replaced, hardware tests must be performed.

Note



troubleshooting printer initialization problems

troubleshooting printer initialization problems

message	value	description
Service station	Cause 1: Faulty	Rotate the gears of the Service Station Motor
does not move	service station or	Assembly to make sure the Wiper Assembly
freely	Logic PCA	can move freely within the Service Station
		Mechanism Assembly.
Carriage	Cause 1: Carriage	f the Carriage Lock is not releasing, check
assembly moves	Motor, Logic PCA,	the Carriage Lock and check the Service
out of home	or Encoder strip	Station for movement. If the Carriage
position	faulty or Carriage	Assembly does not move out of the home
	ock not releasing.	position or return to the home position, clean
		he electrical contacts on the printheads and
		print cradle.
		Remove the printheads from the printer.
		Clean the electrical contacts on the print
		cradle with a dry cotton swab.
		Clean the electrical contacts on the printheads
		with a dry, lint free cloth.
		To prevent damage to the electrical contacts,
		you should wipe the contacts only once. Do
		not wipe the ink nozzles on the printheads.
		Re-install the printheads.





troubleshooting LCD messages

LCD error troubleshooting.



5-100

height indicate by yellow sticker on right wall of input Tray. Cause 3: Dirt Use the cleaning kit to clean the rollers. accumulated on pick Replace pick/separation rollers if cleaning several times does not help. Cause 4: Paper Motor Listen and look out for motor and roller movement. If no movement, use multimeter to probe contacts. If power is live, replace Paper Motor. Cause 5: Paper Motor Listen and look out for motor and roller movement. If no movement, use multimeter to probe contacts. If power is not live, the Power Supply module has failed. Cause 6: Electrical contacts Change harnesses if necessary. Skew Test Failure Cause 1: Paper skew Paper or excessive force is used to install the Input Tray. Cause 2: Input Tray not inserted correctly. Cause 3: Paper stack not fitting Cause 4: Length and Width Adjusters too ight Cause 5: Paper stack height is below the indicator Cause 5: Paper stack height is below the indicator Cause 5: Paper stack height is below the indicator Cause 6: Dirt accumulates on rollers			
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Cause 3: Dirt Use the cleaning kit to clean the rollers. accumulated on pick Replace pick/separation rollers if and drive rollers cleaning several times does not help. Cause 4: Paper Motor Listen and look out for motor and roller movement. If no movement, use multimeter to probe contacts. If power is live, replace Paper Motor. Cause 5: Paper Motor Cause 5: Paper Motor Listen and look out for motor and roller movement. If no movement, use multimeter to probe contacts. If power is not live, the Power Supply movement. If no movement, use multimeter to probe contacts. If power is not live, the Power Supply module has failed. Cause 6: Electrical Change harnesses if necessary. contacts Contacts Skew Test Failure Cause 1: Paper skew Cause 2: Input Tray nsert the Input Tray. Cause 3: Paper stack Ensure paper stack fits snugly against the not fitting right and front walls. Cause 4: Length and Ensure length and Width Adjusters fit Width Adjusters too rimel gainst the paper stack or not fitting envelope. Cause 5: Paper stack Paper stack height is below yellow		height	
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indicator Tray. Cause 6: Dirt Drive Rollers are feeding unevenly due to accumulates on rollers dirt. If so, use the cleaning kit or clean the		Cause 5: Paper stack	Paper stack height is below yellow
Cause 6: Dirt Drive Rollers are feeding unevenly due to accumulates on rollers dirt. If so, use the cleaning kit or clean the		height is below the	indication sticker on right wall of Input
accumulates on rollers dirt. If so, use the cleaning kit or clean the		indicator	Tray.
		Cause 6: Dirt	Drive Rollers are feeding unevenly due to
		accumulates on rollers	dirt. If so, use the cleaning kit or clean the
unveroners.			drive rollers.
Add side wall on Input Tray.			Add side wall on Input Tray.
Add front bias spring on Width Adjuster.			Add front bias spring on Width Adjuster.
install additional stopper at corner of			Install additional stopper at corner of
page.			page.
Cause 2: Output tray Clear the Output Tray to make room for		Cause 2: Output tray	Clear the Output Tray to make room for
full exiting paper. More than 150 sheets are		full	exiting paper. More than 150 sheets are
on the output tray			



troubleshooting configuration page

troubleshooting problems using the configuration page

message	value	description
Self test patterns do not	Cause 1:	Each new printhead is packaged
appear on paper	Protective tape	with protective plastic tape covering
	on the print	the ink nozzles. Check each
	cartridge	printhead and remove tape if
		necessary.
	Cause 2: Out of	f you are printing black text and a
	ink	blank page prints, your black ink
		cartridge may be empty. Replace
		he black ink cartridge.
Self-test patterns do not		f cleaning printheads and
appear on paper even after		changing print cartridges do not
removing the protective tape		help, replace the Logic PCA.
and replacing the print		Clean electrical contacts and
cartridges.		perform Extended Diagnostic Test.
Gaps in test pattern	Cause 1: Ink	Change print cartridges and reprint
	cartridges out of	Extended diagnostic test.
	ink	
	Cause 2:	The Carriage PCA or the Flex
	Carriage PCA,	Cable or the Logic PCA could be
	Flex cable or	aulty. Check each component and
	Logic PCA faulty	replace one at a time to isolate the
		problem.
Gaps in test pattern even	Cause 1: Service	The Service station or the Carriage
after replacing the Carriage	Station or	PCA could be faulty. Check each
PCA, Flex cable, or Logic	Carriage PCA	component and replace one at a
РСА	faulty	time to isolate the problem.



troubleshooting paper eject problems

troubleshooting paper eject problems

message	value	description
Skew Test	Cause 1:	To check for skew test failure, print a configuration
Failure		page. Fold the configuration page in half and make sure the skew test symbols in each corner of the page line up correctly. Paper skew most frequently occurs when the Width Adjusters are not flush against the paper or excessive force is used to install the Input Tray.
	Cause 2: Input Tray not inserted correctly.	Insert the Input Tray correctly.

hp restricted

	Cause 3: Paper stack	Ensure paper stack fits snugly against the right and front walls.
	not fitting	
	Cause 4:	Ensure length and Width Adjusters fit firmly against
	Length and Width	the paper stack or envelope.
	Adjusters too tight	
	Cause 5:	Make sure paper stack height is below yellow
	Paper stack	indication sticker on right wall of Input Tray.
	height is	
	below the	
	indicator	
	Cause 6: Dirt accumulates on Drive Rollers	Drive Rollers are feeding unevenly due to dirt. If so, use the cleaning kit or replace the rollers if cleaning several times does not help.
Paper does not	Cause 1:	The output tray may be incorrectly installed.
exit printer	Output tray	Properly install the output tray.
	may be	
	incorrectly	
	assembled	
	Cause 2:	Clear the output tray to make room for exiting
	Room for	paper.
	exiting paper	



troubleshooting unusual noises

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troub	leshooting	unusual	noises

message	value	description
Noise from the	Cause 1: Faulty Service	f the right side of the printer is making
right side of the	Station Assembly	unusual noises, the Service Station
printer		Assembly or one of its parts may be
		faulty.
Noise from the	Cause 1: Faulty Paper	f the left side of the printer is making
left side of the	Motor	unusual noises, the Paper Motor may be
printer		aulty.
Noise from the	Cause 1: Drive	The Drive Shaft/Pivot Assembly and the
rollers	Shaft/Pivot Assembly or	Up/Rear Paper Guide Assembly have
	the Up/Rear Paper	rollers responsible for feeding the paper
	Guide Assembly could	in to the printer. Replace the faulty
	be faulty.	components.
Noise from the	Cause 1: Dirt particles	Check the Carriage Shaft for dirt
carriage	on the Carriage Shaft	particles. To check the sliders on the
		Carriage, you must remove the
		Carriage.

Nonrecoverable error codes

Nonrecoverable error codes are those errors numbered 49.XXXX. These errors are fatal firmware errors. All other error codes can be corrected via some user action.

- 1. Hold down the power button for 3 seconds.
- 2. If power does not come on, unplug power cord and then plug it in again and turn on power.

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