

Introduction

This User's Reference Guide explains how to use your D/A1 size or A0+/E+ size **HP DesignJet 500PS** Printer. **The Introduction Tab contains these topics:**

Using this Guide

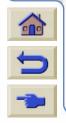
Contains information on how to use this guide. There is an explanation of when you should use it and what each of the navigation buttons do when you click on them.

Introducing Your HP DesignJet 500PS Printer

Contains a brief overview of the printer. It contains information about the printer's features and what is included with the printer.

- <u>Front View of Printer</u> Contains a view of the front of the printer showing the location of the printer's consumable items.
- Printer Connections

Shows all the connections to the printer: power, parallel interface, USB and optionalnetwork interface.



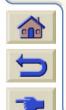




Using this Guide

These topics detail the contents of the User's Reference Guide, provide information on associated publications and give the source of any other related material concerning your printer.

- <u>How to Use this Guide</u> Explains how to use and navigate through the *User's Reference Guide*.
- <u>Related Information</u>
 The associated publications and information that are available for your printer.







How to Use this Guide

This User's Reference Guide explains the details for using both the D/A1 size and A0+/E+ size **HP DesignJet 500PS** Printers.

This guide is designed as a detailed reference guide to your printer. For more day-to-day guidance you can refer to the *Pocket Guide*. This can be found in a slot at the right side of the printer.

The "Tabs"

There are seven "Tabs" at the top of this guide. Each tab contains information about the printer. The first page of every tab will explain what information you can expect to find and where to obtain related information.

The Buttons

To navigate around the *User's Reference Guide* use the buttons on each side of the screen. See <u>User's Reference</u> <u>Guide Navigation</u>.

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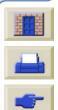
Animation

In some cases there is an animation that shows you how to perform the procedure.

Click on this button to start the animation.







Related Topics



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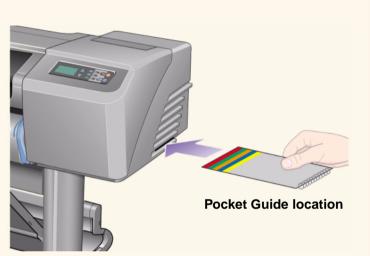
Related Information

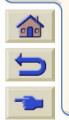
- The Assembly and Set-up Poster Step-by-step information on how to prepare your printer for use (came with your printer).
- The Pocket Guide

Information that you are most likely to need for printer operation on a day-by-day basis, such as loading paper or replacing ink supplies (came with your printer and located in a slot on the right hand side of the printer).

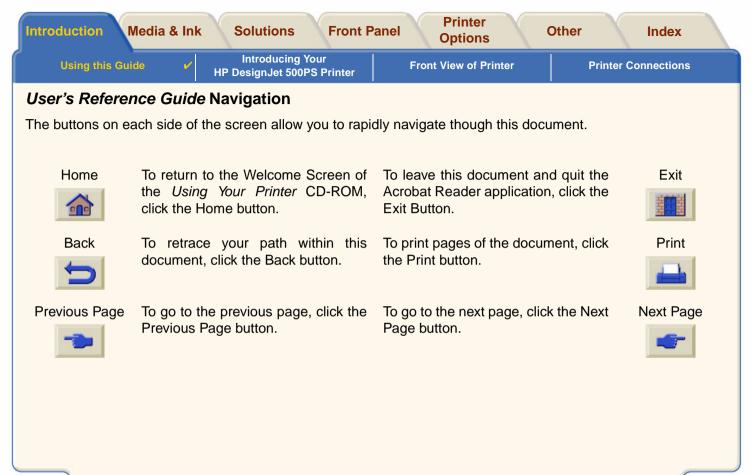
- The *Repacking Poster* Detailed instructions on how to repack you printer its original packing (available from <u>www.hp.com/go/designjet</u>).
- Web Page

Also you can visit us on our web page: www.hp.com/go/designjet.















Your Printer's Main Features

The **HP DesignJet 500PS** printing system is specially designed for individuals or small work-groups in the advertising agencies, in-house graphic departments that specialize in packaging, point-of-sale material and events as well as other graphics applications.

For the complete printing solution, HP also offers a wide range of media including HP Satin Poster Paper, ideal for graphics artists as well as HP High-Gloss Photo Paper, designed to produce best quality images with an ultrasmooth glossy finish. And with the HP Complementary Media Program, HP provides users with a wide spectrum of choice and flexibility in their media selection.

The **HP DesignJet 500PS** printer comes in two sizes: A0+/E+ size (42 inches/1066.8 mm) and D/A1 size (24 inches/609.6 mm) models. Both models have roll-feed capabilities. The A0+/E+ size model also includes legs and a media bin.

- Ultimate Photo Image Quality: The HP DesignJet 500PS printing system has a true resolution of 1200x600dpi on glossy paper, delivering ultimate photo image quality with continuous tones and smooth transitions. Light pastels to natural skin tones and bright, vivid colors are achieved using the HP one-half inch/12.7mm wide printhead combined with HP color layering technology. The HP DesignJet 500PS printer also delivers excellent line quality due to the fact that each printhead contains 304 nozzles, producing miniscule 18-picoliter black pigmented ink drops and four picoliter color dye-based drops.
- Color Accuracy, Consistency and Management: The HP DesignJet 500PS printer includes Adobe® PostScript® 3[™] software Raster Image Processor (RIP) which imitates the color behavior of offset printing presses and supports emulation standards DIC, EuroScale, SWOP and TOYO. In addition, the HP DesignJet 500PS printer delivers consistent color accuracy and supports ColorSync 3.0 for Macintosh



users and <u>PANTONE</u> tables for Windows users. And by using the closed loop color calibration system, the **HP DesignJet 500PS** printer prints repeatable colors, independently of printhead usage, ambient temperature, humidity or ink levels.

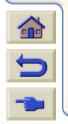
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- Unattendedness: The HP DesignJet 500PS printing system includes a modular ink delivery system, with 69cc cartridge capacity, and long life printheads which last, on average, through ten black ink cartridges and six color ink cartridges, depending on use. This modular system allows users to replace individual ink supplies separately, as needed and also provide automatic alignment and cutting and stacking of finished prints in the media bin, enabling continuous and unattended printing. In addition, the HP DesignJet 500PS printer includes smart chips that are embedded into each individual printhead and ink cartridge that alert the user if it time to replace the printhead and continuously monitor ink levels.
- Ease-of-use: The **HP DesignJet 500PS** printing system is a true out-of the box solution and provides the user with everything he or she needs to install and use the printer. The **HP DesignJet 500PS** printer includes a control-display panel for simple navigation, straightforward media loading and easy-to-install RIP software.
- HP Premium Printing Material: The HP DesignJet 500PS A0+/E+ size and D/A1 size printing systems accept a wide range of roll and sheet media from 24 inches/609.6 mm (D/A1 size) to 42 inches/1066.8 mm (A0+/E+ size) wide including HP Satin Poster Paper, HP High-Gloss Photo Paper and HP Heavyweight Coated Paper.
- Complementary Media Program (<u>CMP</u>): The CMP helps HP customers grow their businesses by referencing third-party printing material choices to ensure maximum HP DesignJet printer flexibility and printing solutions.







HP Ink Supplies

HP Ink Supplies for your printer contain two components: printheads and ink cartridges. Your **HP DesignJet 500PS** printer uses the following HP Ink Supplies:

- Black Ink Cartridges are HP No 10 Supplies.
- Cyan, Magenta and Yellow Cartridges are HP No 82 Supplies.
- All Printheads are HP No 11 Supplies.

Each 600-dpi thermal inkjet printhead applies thousands of ink droplets onto the paper. The printer automatically refills the printhead as it prints, enabling continuous uninterrupted printing. The ink is supplied to each printhead from a separate large capacity ink cartridge.

There is more information available in a pamphlet which comes with the printheads and in <u>Print Times for a</u> <u>Selected Print Quality</u>.







Print Resolution

Your **HP DesignJet 500PS** printer provides two different print modes that change the print resolutions of each of the print quality modes. These different print modes are optimized for: Line Drawings/Text or Images.

You can then choose between three levels of print quality for each of the print modes: Best, Normal or Fast from your software or from the printer's front panel.

With the best mode selected you have an additional selection available to provide maximum detail for your printed image by increasing the resolution of your job above the default resolution.

Print Quality Setting	Optimized for Li	ne Drawing/Text	Optimized	for Images
	Resoluti	on in dpi	Resoluti	on in dpi
	Render	Halftone	Render	Halftone
Fast	300x300	600x300	150x150	600x300
Normal	600x600	600x600	300x300	600x600
Best (default)	600x600	600x600	600x600	600x600
Best (maximum detail)	600x600	1200x600	600x600	1200x600

Use **Fast** to get draft copies of your prints at maximum throughput. **Normal** is optimized so that you get the best line quality with the fastest throughput. Select **Best** if you want to get the best quality for images and renderings.







Media

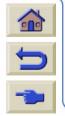
You can print on roll media or sheet media up to 42 inches (1066.8 mm) wide with the A0+/E+ size **HP DesignJet 500PS** printer and up to 24 inches (609.6 mm) with the D/A1 size model.

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The following media types are supported on the HP DesignJet 500PS printer:

- HP Bright White Inkjet Paper (Bond)
- HP Vellum
- HP Natural Tracing Paper
- HP Coated Paper
- <u>HP Heavyweight Coated Paper</u>
- HP Matte film
- HP High-Gloss Photo Paper
- HP Semi-Gloss Photo Paper

- HP Paper-Based Semi-Gloss
- HP Clear film
- HP Translucent bond
- <u>HP Studio Canvas</u>
- HP Satin Poster Paper
- HP Banners with Tyvek®
- <u>HP Colorfast Adhesive Vinyl</u>

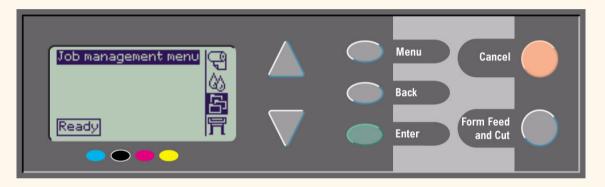






User Interface

The printer's front panel includes an easy-to-use interface with a display, giving you access to a comprehensive set of printer functions.



See <u>Navigating the Menu System</u>, for a short tutorial to teach you how to navigate through the menus and a description of internal prints.







Memory

The D/A1 size and A0+/E+ size **HP DesignJet 500PS** printers come with 16MB or internal Random Access Memory (RAM).







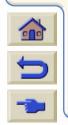
Drivers

Always use the right driver (configured correctly) for the combination of your <u>application</u> software and your printer to ensure that your printer prints exactly what you were expecting in terms of: size, position, orientation, color and quality.

NOTE: Many software applications include their own drivers.

Your HP DesignJet 500PS printer comes supplied with:

- HP DesignJet 500PS <u>RIP</u> Software
- AutoCAD drivers for Windows.
- NOTE: If AutoCAD drivers are available for the specific AutoCAD release you are using, it is strongly recommended that you install them to print from AutoCAD.









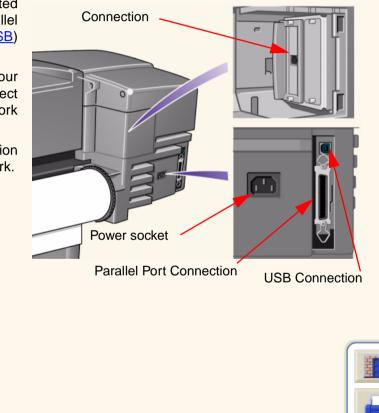
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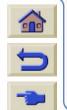
Printer Connections

Your **HP DesignJet 500PS** printer can be connected directly to your computer via the traditional parallel interface or through the Universal Serial Bus (<u>USB</u>) port.

For Local Area Network (<u>LAN</u>) connection your printer can be fitted with an optional HP JetDirect Print Server Fast Ethernet 10/100 base TX network interface card.

See the Assembly and Set-up Poster for information on connecting your printer to a computer or network.





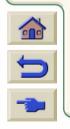


Media & Ink

The D/A1 size and A0+/E+ size format **HP DesignJet 500PS** Printers use a variety of media. The recommended media is engineered to use with your printer and your printer's ink system to give you the best results.

The Media & Ink Tab contains these topics:

- <u>Media Choice</u> explains how to choose the correct media type. Choosing the correct paper type for your needs is an essential step in ensuring good image quality.
- Roll Media details the procedures used for loading and unloading your roll media.
- Sheet Media details the procedures used for loading and unloading your sheet media.
- Ink System gives you an overview of the printer's ink system, with some warnings and precautions for it's optimum use.
- <u>Ink Cartridges</u> details the procedures used for: obtaining information, interpreting errors, checking levels and replacing ink cartridges.
- <u>Printheads</u> details the procedures used for: obtaining information, interpreting errors, replacing printheads and aligning printheads.







Media Choice

<u>Choosing Paper or Other Media</u>

Your printer supports several types of paper. Choosing the best paper type for your needs is an essential step in ensuring good image quality. These topics help you to select the best media for your particular printing task.

Paper Types

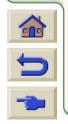
Detailed information concerning the different types of media available for your printer. This includes information on: the types of paper supported, their physical characteristics, quality selection, handling and how to obtain information.

Print Times for a Selected Print Quality

Typical Printing Times for color and black lines and images on different types of paper.

Printable Area

The dimensions for all the printable areas for all paper and other types of media formats.





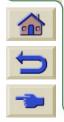


Choosing Paper or Other Media

For best printing results, use only genuine Hewlett-Packard paper or other type of media, whose reliability and performance have been developed and thoroughly tested. All Hewlett-Packard printing components (printer, ink system, and paper/other media) have been designed to work together to give trouble-free performance and optimal image quality. For detailed information on Hewlett-Packard paper, see <u>Paper Types</u>.

You should also take note of some important points about paper and other types of media:

- This printer supports many types of paper. However, the quality of some images may be reduced if you do not use the correct paper for your application. For example, images with large regions of intense color, where many ink drops are needed to fully saturate the color, will not print well on HP Bright White InkJet Paper. On HP <u>Coated paper</u>, the same images might cause the paper to wrinkle and then come into contact with the printheads, smearing your print and risking damage to the printhead. See <u>Combinations of Media Type and</u> <u>Print Quality Selection</u>.
- Whenever you load a roll or a sheet, the printer's front-panel display prompts you to specify the paper type you are loading. It is absolutely essential to specify this correctly for good image quality. The <u>Physical Characteristics of Paper Types</u> table gives you all the information you need. If paper is already loaded and you are unsure which paper type was specified, go to the Paper Menu and press Enter; see <u>Obtaining Roll or Sheet Paper</u> Information.
- Make sure the appropriate print-quality setting (Best, Normal or Fast) is selected. You can set the print quality either from your software or from the printer's front panel (software driver settings override any print-quality settings made on the front panel). The combination of paper type and print-quality settings tells the printer how to place the ink on the paper—for example, the ink density, dithering method, and number of passes of



the printheads. For more details, see <u>Combinations of Media Type and Print Quality Selec-</u> tion.

• Included with this printer is the *Hewlett-Packard Printing Materials* catalog which gives ordering details for Hewlett-Packard paper supplies. To get the latest version of this document, contact your local Hewlett-Packard Sales and Support office.

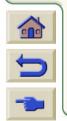




Paper Types

The following topics address the various types of media available, their particular use and how to obtain information about them.

- <u>Physical Characteristics of Paper Types</u>
 Details the physical characteristics of each of the supported paper types.
- <u>Combinations of Media Type and Print Quality Selection</u> Gives guidelines for selecting the correct Print Quality selection for the type of paper or other type of media you are using.
- <u>Handling Your Paper or Type of Media</u> Explains the precautions to take when handling paper or other type of media.
- Obtaining Roll or Sheet Paper Information







Physical Characteristics of Paper Types

The following table lists the physical characteristics and selection numbers of supported HP Premium Printing Material. Always print on the image side with the special coating. Image side faces outward on roll products from Hewlett-Packard.

HP Premium Printing Material	24 inch 610 mm	36 inch 914 mm	42 inch 1067 mm
HP Bright White Inkjet Paper (Bond)	C1860A ^a	C1861A ^a	
24 lb. (90g/m2) - 150 ft. (45m)	C6035A ^b	C6036A ^b	
HP Vellum	C3862A	C3861A	
3 mil (75g/m2) - 150 ft. (45m)			
HP Natural Tracing Paper	C3869A	C3868A	
3 mil (90g/m2) - 150 ft. (45m)			
HP Coated Paper	C6019B	C6020B	C6559B ^a
26 lb. (98g/m2) - 150 ft. (45m)			C6567B ^b
HP Heavyweight Coated Paper	C6029C	C6030C	C6569C
35 lb. (130g/m2) - 100 ft. (30m)			
HP Matte film	51642A	51642B	
5 mil (198g/m2) - 120 ft. (36m)			
HP High-Gloss Photo Paper	C6813A	C6814A	
8 mil (207g/m2) - 100 ft. (30m)			
Click on the Next Page Icon to see more	Paper and C	Other Media	<u>Types</u>

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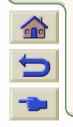
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Physical Characteristics of Paper and Other Media



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	Physical Characteristics of	Paper and Other	/ledia (Cont	inued)	
	HP Premium Printing Mate	rial 24 inch 610 mm	36 inch 914 mm	42 inch 1067 mm	
	HP High-Gloss Photo Paper	C3882A	C3881A		
	6 mil (158g/m2) - 100 ft. (30m)				
	HP Semi-Gloss Photo Paper	C3884A	C3883A		
	6 mil (158g/m2) - 100 ft. (30m)				
	HP Paper-Based Semi-Gloss	C6782A	C6783A		
	6 mil (158g/m2) - 100 ft. (30m)				
	HP Clear film	C3876A	C3875A		
	4 mil (174g/m2) - 75 ft. (22m)				
	HP Translucent bond	C3860A	C3859A		
	3 mil (67g/m2) - 75 ft. (45m)				
	HP Studio Canvas		C6771A		
	20 mil (368g/m2) - 35 ft. (10m)				
	HP Satin Poster Paper		C7011A		
	5.5 mil (162g/m2) - 100 ft. (30m)				
	HP Banners with Tyvek®	C6786A	C6787A		
	10 mil (140g/m2) - 50 ft. (15m)				
	HP Colorfast Adhesive Vinyl		C6775A		
	10 mil (140g/m2) - 50 ft. (15m)				C

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Additional Information About Paper Types



Introduction	M	edia & Ink	Solu	utions	Front P	anel	Printer Options		Other	Index	
Media Choice	~	Roll Media		Sheet Me	edia	Ink S	ystem	Inł	Cartridges	Printheads	
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Additional Information About Paper Types

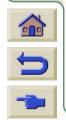
The following HP Premium Printing Material can be used to perform the printhead alignment, see Printhead Alignment.

- HP Bright White Inkjet Paper (Bond)
- HP Coated Paper
- HP Heavyweight Coated Paper
- HP High-Gloss Photo Paper
- HP Satin Poster Paper

You can also use Plain Paper in addition to the above.

To order any of the HP Premium Printing Material, see the pamphlet Hewlett-Packard Printing Materials.

From time to time, new paper types may become available. For up-to-date information, please contact your Hewlett-Packard dealer, local Hewlett-Packard Sales and Support Office or the <u>DesignJet Online</u> web site.



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Introduction	ledia & Ink	Solutions	Front Pa	anel	Printer Options		Other	Index	
Media Choice 🗸	Roll Media	Sheet M	ledia	Ink S	ystem	Inł	< Cartridges	Printheads	

Combinations of Media Type and Print Quality Selection

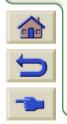
Use the following tables, given by application, to guide you when choosing your paper and selecting the print quality setting (**Fast**, **Normal**, **Best**).

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- <u>CAD Drawings—Mono</u>
- CAD Drawings and GIS—Color (Lines and low density)
- CAD Rendering, GIS and Images—Color and CAD (high ink density).

As a general guide:

- Fast is best for draft copies of your prints at maximum throughput
- Normal is optimized so that you get the best line quality with the fastest throughput
- **Best** is for when you want to get the best quality for images and renderings.





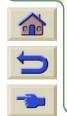
Introduction	Media & Ink	Solutions	Front Pane	I Printer Options	Other	Index
Media Choice	V Roll Media	Sheet M	ledia	Ink System	Ink Cartridges	Printheads

CAD Drawings—Mono

The following table lists the recommended print quality settings for specific usage with typical media.

Typical Media Selection Recommended Print Quality Setting Usage Drafts Fast or normal Plain Paper **Bright Inkjet Paper** Natural Tracing Paper Translucent Bond Normal or Best **Final Versions** Plain Paper **Bright Inkjet Paper** Natural Tracing Paper Translucent Bond Coated paper Heavy Coated Paper Matte Film Clear film Archives Vellum Best Matte Film Clear Film Diazo Normal or Best Translucent Bond Natural Tracing Paper Vellum Matte Film

Supported Paper Types—Mono





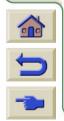
Introduction M	ledia & Ink So	olutions Front F	Panel Printer Options	Other	Index
Media Choice 🗸	Roll Media	Sheet Media	Ink System	Ink Cartridges	Printheads

CAD Drawings and GIS—Color (Lines and low density)

The following table lists the recommended print quality settings for specific usage with typical media.

Supported Paper Types—Color

Usage	Typical Media Selection	Recommended Print Quality Setting
Drafts	Plain Paper Bright Inkjet Paper Natural Tracing Paper Translucent Bond	Fast or Normal
Final Versions	Plain Paper Bright Inkjet Paper Coated paper Heavy Coated Paper Matte Film Clear film	Normal or Best
Archives	Matte Film Clear Film	Best
Transparencies	Clear Film	Normal or Best



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Introduction	Media & Ink	Solutions	Front Pan	nel	Printer Options		Other	Index	
Media Choice	V Roll Media	Sheet M	Media	Ink Sy	stem	Ink C	Cartridges	Printheads	

CAD Rendering, GIS and Images—Color and CAD (high ink density)

The following table lists the recommended print quality settings for specific usage with typical media.

Supported Paper Types—Color and CAD

Usage	Typical Media Selection	Recommended Print Quality Setting
Matte Paper	Heavy Coated Paper	Normal or Best
Glossy	High Gloss Photo Paper	Normal or Best
Transparencies	Clear Film	Best







Handling Your Paper or Type of Media

Take the following precautions when handling paper or other type of media:

- Handle film and glossy paper by the edges or wear cotton gloves. Skin oils can interact with the ink and cause it to smear.
- Although the ink systems supplied with this printer have good light fastness, colors will eventually fade or change if exposed to sunlight over a long period of time.
- Rewrap partially used rolls if they are not being used and do not stack rolls.
- Always keep unused rolls in their plastic wrappings to prevent discoloration.

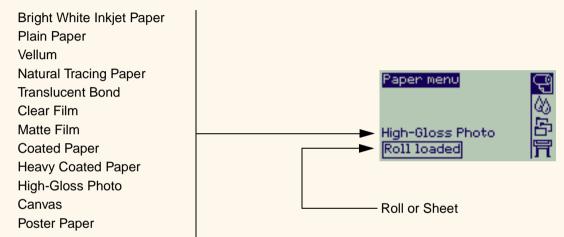






Obtaining Roll or Sheet Paper Information

If roll media or sheet media is loaded, the type of media is displayed when you select the **Paper** menu on the front panel.



If there is no paper loaded the front panel display shows the following message and you will need to load roll or sheet media.



Paper menu	
Load roll	◄
Load sheet	•
Cutter = ON	- •
Page format	- •
Advance calibration	►

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Introduction M	ledia & Ink So	olutions Front F	Panel Printer Options	Other	Index	
Media Choice 🖌	Roll Media	Sheet Media	Ink System	Ink Cartridges	Printheads	

Print Times for a Selected Print Quality

The following table lists some typical printing times for D/A1 size paper.

Typical Printing Times

Print Quality	Time (in seconds)						
	Mono Lines on Bond	Color Lines on Coated Paper	Images on Coated Paper	Images on Glossy Paper			
Fast	96	96	234	480			
Normal	216	216	550	690			
Best	360	285	940	990			

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More Printing Times

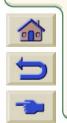


Printable Area

The following topics detail the printable areas for each of the different paper size systems:

- <u>ANSI Paper</u>
 The American National Standards Institute imperial paper sizing system.
- <u>Architectural Paper</u> The Architectural paper sizing system.
- ISO Paper

The International Standards Organization metric paper sizing system, which is the size system commonly used in Europe.







ANSI Paper

The following table lists the printable area for the <u>ANSI paper</u> size system. The left and right margins are 0.2 inches (5 mm) and the leading and trailing edge margins are 0.7 inches (17 mm).

Where: Printable area = Paper Size – Margins

Printable area (width x height) by Image Orientation **Orientation of** Inches Millimeters Paper paper in size Landscape Portrait Landscape Portrait printer Width Width Height Width Height Width Height Height А Portrait 9.7 8.1 8.1 9.7 245 206 206 245 Landscape 7.2 10.6 10.6 7.2 182 269 269 182 В Portrait 15.7 10.6 10.6 15.7 398 269 269 398 Landscape 9.7 16.6 16.6 9.7 245 422 422 245 С 20.7 16.6 20.7 Portrait 16.6 525 422 422 525 Landscape 15.7 21.6 21.6 15.7 398 549 549 398 D Portrait 32.7 21.6 21.6 32.7 830 549 549 830 20.7 Landscape 20.7 33.6 33.6 525 854 854 525 Е Portrait N/A 33.6 42.7 N/A 854 1084 Landscape 32.7 43.6 N/A 830 1108 N/A

Printable Areas for ANSI paper



C

Indicates this printable area is only available if you are using the A0+/E+ size format **HP DesignJet 500PS** printer





Architectural Paper

The following table lists the printable area for the <u>Architectural paper</u> size system.

The left and right margins are 0.2 inches (5 mm) and the leading and trailing edge margins are 0.7 inches (17 mm).

Where: Printable area = Paper Size – Margins.

Printable Areas for Architectural paper

	Orientation of paper in printer	Printable area (width x height) by Image Orientation								
Paper size		Inches				Millimeters				
		Landscape		Portrait		Landscape		Portrait		
		Width	Height	Width	Height	Width	Height	Width	Height	
С	Portrait	22.7	17.6	17.6	22.7	576	447	447	576	
	Landscape	16.7	23.6	23.6	16.7	423	600	600	423	
D	Portrait	34.7	23.6	23.6	34.7	880	600	600	880	
	Landscape	22.7	35.6	35.6	22.7	576	904	904	576	
E1	Portrait	40.7	29.6	29.6	40.7	1033	752	752	1033	
	Landscape	28.7	41.6	41.6	28.7	728	1057	1057	728	
E	Portrait	N/A		35.6	46.7	N/A		904	1185	
	Landscape	34.7	47.6	N/A		880	1209	N/A		



Indicates this printable area is only available if you are using the A0+/E+ size format **HP DesignJet 500PS** printer

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ISO Paper

The following table lists the printable area for the <u>ISO paper</u> size system.

The left and right margins are 0.2 inches (5 mm) and the leading and trailing edge margins are 0.7 inches (17 mm).

Where: Printable area = Paper Size – Margins

Printable Areas for ISO paper

	Orientation of paper in printer	Printable area (width x height) by Image Orientation								
Paper size		Inches				Millimeters				
		Landscape		Portrait		Landscape		Portrait		
		Width	Height	Width	Height	Width	Height	Width	Height	
A4	Portrait	10.4	7.9	7.9	10.4	263	200	200	263	
	Landscape	6.9	11.3	11.3	6.9	176	287	287	176	
A3	Portrait	15.2	11.3	11.3	15.2	386	287	287	386	
	Landscape	10.4	16.1	16.1	10.4	263	410	410	263	
A2	Portrait	22.0	16.1	16.1	22.0	560	410	410	560	
	Landscape	15.2	23.0	23.0	15.2	386	584	584	386	
A1	Portrait	31.7	23.0	23.0	31.7	806	584	584	806	
	Landscape	22.0	32.7	32.7	22.0	560	830	830	560	
A0	Portrait	N/A		32.7	45.4	N/A		830	1154	



Indicates this printable area is only available if you are using the A0+/E+ size format **HP DesignJet 500PS** printer

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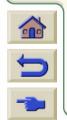


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Roll Media

The following procedures are described in detail, with animations where appropriate:

- Installing a New Roll on the Printer
- Loading Roll Media
- Unloading Roll Media
- Removing Roll Media from the Spindle
- <u>Cutter Replacement</u>







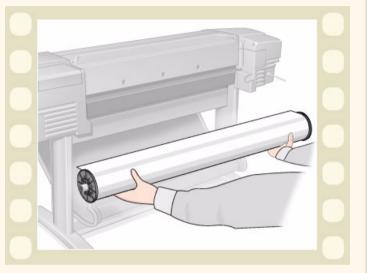
Installing a New Roll on the Printer

The animation sequence shows how to install a new roll of paper on the printer.

CAUTION: Make sure the printer wheels are locked (the brake lever on each wheel is pressed Down) to prevent the printer from moving.

If you are a regular user of different types of roll paper, you can change the paper quicker if you have more than one spindle. This allows you to do the following:

- 1. Pre-load the different types of paper onto the spindles.
- 2. Remove and replace the spindle with the new type of paper.
- NOTE: Additional spindles are available from Hewlett Packard as accessories.



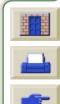
Click on this

icon to run the animation sequence. A printable version of the sequence is also available so

that you can take the key illustrations to the printer, if it is remote from your computer.









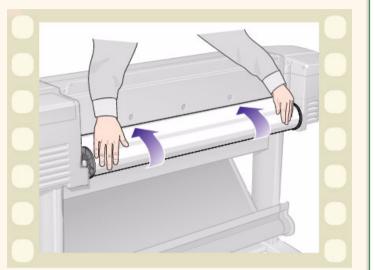
Loading Roll Media

The animation sequence shows how to load a new roll of paper on the printer.

NOTE: You must have <u>installed</u> a new roll of paper on the printer before you can load it.

The front-panel menu items are:

Select (using the 🛔 key	ys) Then Press:
1. Paper	Enter
2. Load Roll	Enter
3. Select Roll Type	Enter
Click on the	con to run the animation



sequence. A <u>printable version</u> of the sequence is also available so that you can take the key illustrations to the printer, if it is remote from your computer.







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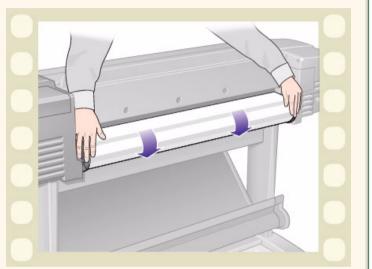
Unloading Roll Media

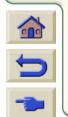
The animation sequence shows how to unload a roll of paper from the printer.

Click on the

icon to run the animation

sequence. A <u>printable version</u> of the sequence is also available so that you can take the key illustrations to the printer, if it is remote from your computer.









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Removing Roll Media from the Printer

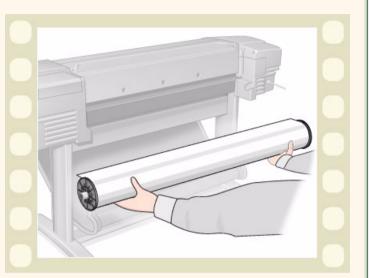
The animation sequence shows how to remove a roll of paper from the printer.

NOTE: You must have unloaded the roll of paper from the printer before you can remove it.

Click on the

icon to run the animation

sequence. A printable version of the sequence is also available so that you can take the key illustrations to the printer, if it's remote from your computer.









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Removing Roll Media from the Spindle

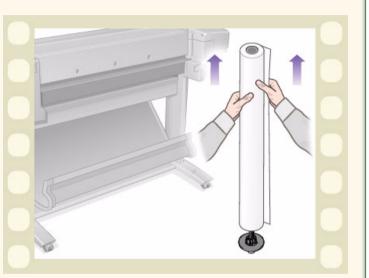
The animation sequence shows how to remove a roll of paper from the roll spindle.

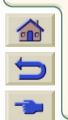
NOTE: You must have removed the roll of paper from the printer before you can remove it from the spindle.

Click on the

icon to run the animation

sequence. A printable version of the sequence is also available so that you can take the key illustrations to the printer, if it is remote from your computer.









Cutter Replacement

The animation sequence shows the complete procedure for the replacement of the paper cutter in your printer.

Prerequisites

Before attempting to replace the cutter you must contact your local <u>HP Customer Care</u> center to:

- Order the replacement cutter.
- Receive instructions on how to access the Front Panel Service Menu.

Important Information

- The cutter unit is attached to the printer by a black cutter holder that runs along the metal guide rail, and is hooked onto the edge of the <u>platen</u> at the front of the printer.
- The cutting wheel is inside the cutter unit.
- Do not remove the cutter holder.

Click on the

• When inserting the new cutter, with the cutter holder raised to about 45 degrees, partially insert the cutter so it rests in the cutter holder, but do *NOT* clip it in at this stage.

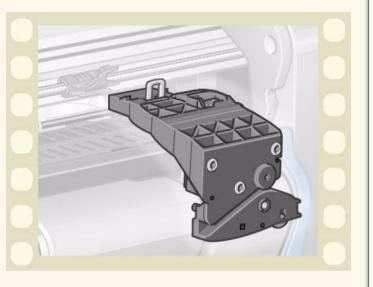
CAUTION: Be very careful when replacing the cutter because you can easily break the cutter holder if you apply too much force.

icon to run the animation sequence. A printable version of the sequence



is also available so that you can take the key illustrations to the printer, if it is remote from your computer.

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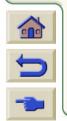


Introduction	ledia & Ink	Solutions	Front Par	nel	Printer Options		Other	Index	
Media Choice	Roll Media	Sheet M	ledia 🖌	Ink S	ystem	Ink	Cartridges	Printheads	

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Sheet Media

- <u>Which Side Up?</u> Instructs you how to identify which side of the sheet media should be printed on.
- <u>Which Edge First?</u> Explains which edge of the sheet should be loaded first (short edge or long edge).
- <u>Loading Sheet Media</u> Details the sheet media loading procedure.
- <u>Unloading Sheet Media</u>
 Details the sheet media unloading procedure.





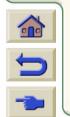


Which Side Up?

The printer prints on the side of the paper that faces up. It may be important to load the sheet with the correct side facing up. See the table below.

Media Type	Matte or Glossy
HP Bright White Inkjet Paper (Bond)	Both sides are the same. If sheet
HP Vellum	is curled, load with curl down.
Natural Tracing Paper	
Coated Paper	Load with the coated side up.
Heavy Coated Paper	
Matte Film	Load with the matte side up.
High-Gloss Photo	Load with the glossy side up.
Clear Film	
Translucent Bond	Both sides are the same. If sheet is curled, load with curl down.
Canvas	
Poster Paper	
Plain Paper	Both sides are the same. If sheet is curled, load with curl down.

Print Side for Media Types

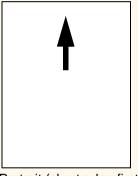




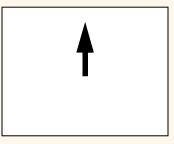
Which Edge First?

You can load sheet paper in either portrait or landscape orientation. Unless you are using the Rotate option, always load the sheet in the same orientation as you have specified in your software.

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Portrait (short edge first)



Landscape (long edge first)





Loading Sheet Media

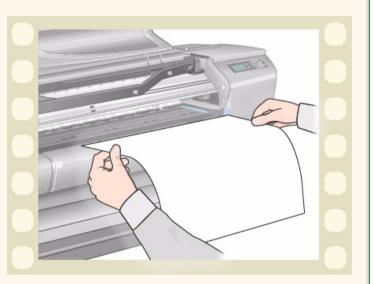
The animation sequence shows how to load a new sheet of paper on the printer.

Important

- If you have a roll of paper loaded on the printer you must first <u>unload</u> it from the printer.
- Make sure the <u>correct side</u> of the sheet is facing up when you load it.

The front panel menu selections are:

	Select (using the 💂 keys)	Then Press:
1.	Paper	Enter
2.	Load sheet	Enter
3.	Select Sheet Type	Enter



Click on the **printable** icon to run the animation sequence. A <u>printable version</u> of the sequence is also available so that you can take the key illustrations to the printer, if it's remote from your computer.







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Unloading Sheet Media

The animation sequence shows how to unload a sheet of paper from the printer.

Important

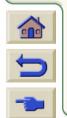
To give the ink time to dry the printer holds the paper for some time.

Click on the

icon to run the animation

sequence. A printable version of the sequence is also available so that you can take the key illustrations to the printer, if it is remote from your computer.







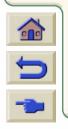
Introduction M	ledia & Ink S	olutions Fron	Panel	inter tions		Other	Index	
Media Choice	Roll Media	Sheet Media	Ink System	~	In	k Cartridges	Printheads	

Ink System

These topics cover the various elements of the Ink System.

- <u>What are HP Ink Supplies?</u>
 Details the elements of the HP Ink Supplies supplies.
- <u>Component identification</u> Shows you where to find the various elements of the Ink System.
- Ink Supply Guidelines Explains how to obtain the best results from your Ink System.
- <u>Precautions</u>
 Details the specific precautions you must take to avoid damaging the components of your Ink System.
- <u>Color Calibration</u>
 Explains how to calibrate the ink system for the type of media loaded
- Drying Time

Explains drying time function and details how to use it to ensure you obtain the highest quality print under all conditions.







What are HP Ink Supplies?

For each of the four ink colors used in the printer, there are two separate components, the <u>printhead</u> and the <u>ink cartridge</u>. These components are called the HP Ink Supplies and are coded with a Hewlett-Packard No. selection number to help you reorder the correct replacement. Your **HP DesignJet 500PS** printer uses the following HP Ink Supplies:

- Black Ink Cartridges are HP No 10 Supplies.
- Cyan, Magenta and Yellow Cartridges are HP No 82 Supplies.
- All Printheads are HP No 11 Supplies.

Ink Cartridges

The Hewlett-Packard ink cartridges for your printer require no maintenance or cleaning. As long as each ink cartridge is inserted correctly into its slot, the ink will flow to the printheads. Because the printheads control the amount of ink transferred to the page, you will continue to see high-quality printing results, even when the ink levels are getting low.

The front panel notifies you when an ink cartridge's ink level is low. You can also check the ink levels of all the ink cartridges to determine if an ink cartridge needs to be replaced, see <u>Ink Cartridge Information</u>.

If the ink cartridge is empty, the printer stops printing. See Ink Cartridge Replacement.

Printheads

The Hewlett-Packard printheads are extremely durable and do not need to be replaced every time an ink cartridge



is replaced. They are independent of the ink cartridges and will continue giving excellent image quality results even if the ink cartridges are low in ink.



If you notice a decline in print quality such as lines or dots missing from text or graphics, see <u>Stepped Lines</u>.





The Hewlett-Packard selection number on the ink cartridges and printheads makes it easy for you to find the correct HP Ink Supplies for your printer. Determine the color of the printhead or ink cartridge you need, then make sure you purchase or order the correct Hewlett-Packard printhead or ink cartridge. Each ink cartridge and printhead can be purchased separately from your usual Hewlett-Packard retailer. See <u>Ordering Accessories</u>.

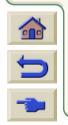
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Ink Supply Guidelines

For optimum results from your printer and the ink system, always follow these guidelines when handling HP Ink Supplies:

- Always install the ink cartridges and printheads before the expiry date, which is on the packaging.
- Install ink cartridges and printheads in their color-coded slots.
- Follow the instructions on the front panel during installation.
- Avoid unnecessary removal of the ink cartridges and printheads.
- When turning off your printer, always use the power-off button on the front panel. The printheads are then parked correctly which prevents them from drying out.
- The ink cartridges should never be removed while the printer is printing. They should only be removed when the printer is ready for you to replace them. The front panel will guide you through the removal and installation procedure. See <u>When to Replace</u> HP Ink Supplies.
- **CAUTION:** When you first received your printer it was supplied with a set of four setup printheads installed in the printhead carriage. These setup printheads are used for the priming of the tubes in the modular ink delivery system. Do not remove the setup printheads from the carriage without following the procedures in the *Assembly and Set-up Poster*.







Precautions

Handle HP Ink Supplies with care. In particular, the printhead, which is a high-precision device, must be handled carefully.

CAUTION: Do not touch, wipe or attempt to clean the printhead <u>nozzles</u>. This can damage the printhead.

- Do not put the printhead down on the nozzles.
- Do not be rough when handling the printheads. Always set them down gently.
- Do not drop the printheads. Proper handling will assure optimum performance throughout the printhead life.
- Do not touch the end of the ink cartridge which is inserted into the printer as there may be a small amount of ink on the connection.
- Avoid storing partly used ink cartridges on their ends.

X	





Color Calibration

You can calibrate the ink system for the specific media loaded in your printer. Doing this ensures the printed output matches the colors of the original image as closely as possible. The printer stores the calibration data for each type of media you have calibrated it for since it was powered up. Once the printer has been powered down, the next time you use it only the last calibration made will be available and it will print using this calibration data.

To color calibrate your printer, first make sure you have the correct type of media loaded and then make the following front-panel selections:

	Select (using the 💂 keys)	Then Press:
1.	Ink	Enter
2.	Color calibration	Enter
3.	Calibrate Paper	Enter

The printer prints a calibration pattern and scans it to create the calibration data for the type of media loaded.

If you want to check the color calibration status of your printer, make the following front-panel selections:

	Select (using the 🔷 keys)	Then Press:
1.	Ink	Enter
2.	Color calibration	Enter
3.	Status	Enter



The front panel display shows what types of media the ink system is currently calibrated for.

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To remove all the calibrations and reset the printer to its factory values choose *Color calibration* > *Reset* from the lnk menu.





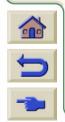
Drying Time

The following topics detail the drying time function and how to use it to ensure you obtain the highest quality print under all conditions.

- <u>Drying Time Settings</u> Describes how to set the required drying times from the front panel.
- <u>Typical Drying Times</u> Lists typical drying times for Hewlett-Packard tested paper at approximately 25°C with 50% relative humidity.

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• <u>Drying Procedure</u> Details how the drying procedure operates.







Drying Time Settings

With some paper types and environmental conditions the ink needs time to dry before the paper is unloaded. The printer has three settings which you can choose through the front panel. See <u>Navigation Example</u> for more help.

Manual

The printer holds in place paper which has a specific drying time, and displays a "drying time to go" countdown on the front panel. You can change this time from one minute to 99 minutes in one minute increments.

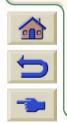
Automatic

The printer automatically determines the appropriate drying time, based on the type of paper you have selected and the current temperature. If there is any drying time the printer displays a "drying time to go" countdown on the front panel.

None

With this setting, when the printer has finished printing an image, the paper will fall into the paper bin under the printer.

CAUTION: Changing the drying time to speed up the printer could result in damage to your printed image or reduce the quality of your print.





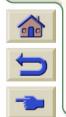


Typical Drying Times

The following table shows the typical drying times for Hewlett-Packard tested paper at approximately 25°C with 50% relative humidity.

Hewlett Packard Tested Paper	Drying Time (seconds)					
Туре	Fast	Normal	Best			
HP Bright White Inkjet Paper (Bond)	0	2	5			
HP Vellum	60	120	180			
HP Natural Tracing Paper	00	120	100			
HP Coated Paper	0	60				
HP Heavyweight Coated Paper	0	60				
HP Matte film	60	- 180				
HP High-Gloss Photo Paper	120					
HP Semi-Gloss Photo Paper						
HP Paper-Based Semi-Gloss						
HP Clear film		60				
HP Translucent bond	60	120	180			
HP Studio Canvas	6000					
HP Satin Poster Paper		60				
HP Banners with Tyvek®						
HP Colorfast Adhesive Vinyl						

Drying Times by Paper Types





Drying Procedure

The drying procedure operates as follows:

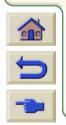
- 1. The printed image emerges from beneath the printer window and a vacuum holds it on the <u>platen</u> of the printer.
- 2. The front panel displays:



- 3. You can press the Cancel or the Form Feed & Cut key to cancel the drying time and release the paper.
- After the drying time has elapsed: For roll media the printer cuts the media and turns off the vacuum so the printed image can drop into the printer bin.

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For sheet media the vacuum is turned off and the printed image drops into the printer bin.



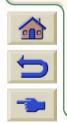




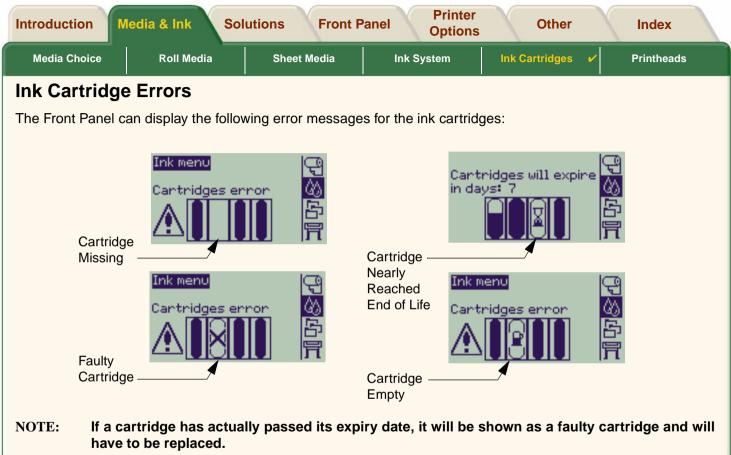
Ink Cartridges

- Ink Cartridge Errors
 Details the error messages that could be displayed on the front panel for the Ink Cartridges.
- Ink Cartridge Levels
 Details the information about levels that can be displayed on the front panel for the Ink Cartridges.

- Ink Cartridge Information Shows you how to display the current status of the Ink Cartridges on the front-panel display.
- Ink Cartridge Replacement
 Details the Ink Cartridge replacement procedure.





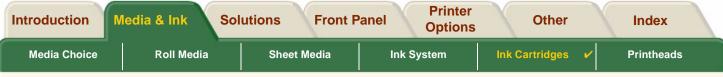


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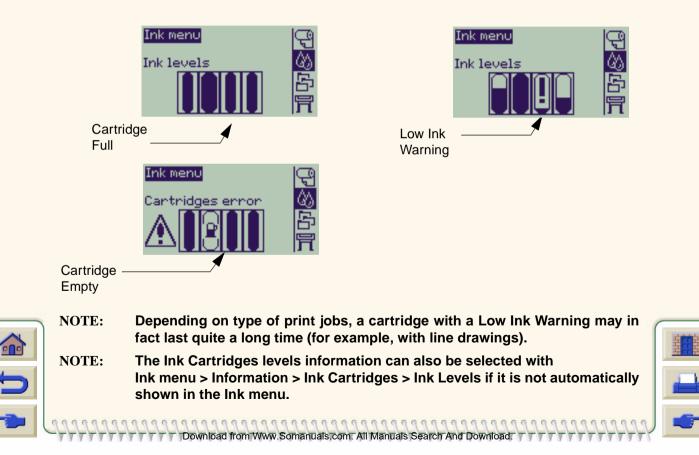
The printer will also display the Ink Cartridge Levels.





Ink Cartridge Levels

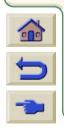
The Front Panel will tell you when your ink supply is low, very low or empty. This means you know current status of your HP Ink Supplies all the time:





- The front panel displays the following information for the selected ink cartridge:
- Color: Cyan, Magenta, Yellow or Black.
- Model: Hewlett-Packard No 82 (Cyan, Magenta and Yellow) or Hewlett-Packard No 10 (Black).

- Status: inserted, low on ink, out of ink, missing, expired and faulty.
- Expiration date.
- Serial Number.
- Ink Level: in cc and % used.



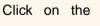


Ink Cartridge Replacement

The animation sequence opposite shows how to replace an Ink Cartridge.

- WARNING: Make sure the printer wheels are locked (the brake lever is pressed down) to prevent the printer from moving.
- CAUTION: Only remove an ink cartridge if you are replacing it.
- CAUTION: Do not replace cartridges while the printer is printing because doing this will cancel the current print job.

You would need to change cartridges either if prompted to do so on the Front Panel because the printer has detected a cartridge is out of ink or the cartridge is low and you want to replace it before it runs out.





icon to run the animation

sequence.

A <u>printable version</u> of the sequence is also available so that you can take the key illustrations to the printer, if it is ______ remote from your computer.





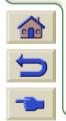


Introduction M	ledia & Ink	Solutions	Front Par	nel	Printer Options		Other	Index	
Media Choice	Roll Media	Sheet M	ledia	Ink S	ystem	Ink	Cartridges	Printheads	~

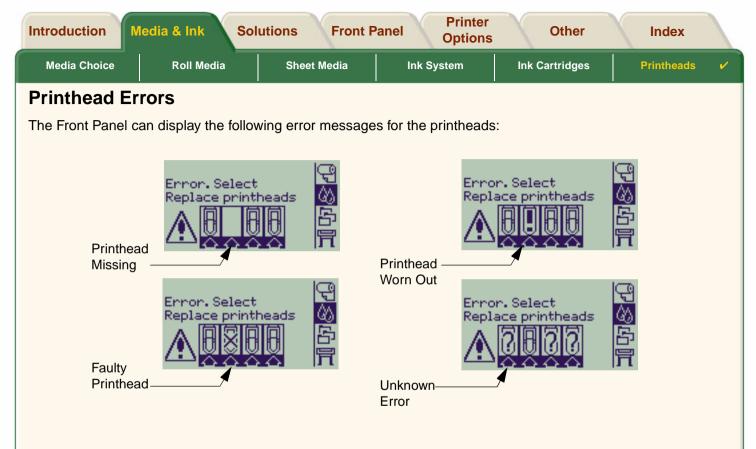
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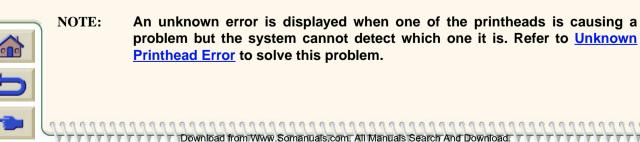
Printheads

- <u>Printhead Errors</u>
 Details the different error messages that could be displayed on the front panel for the Printheads.
- <u>Printhead Information</u> Shows you how to display the current status of the Printheads on the front panel display.
- <u>Printhead Replacement</u> Details the Printhead Replacement procedure.
- <u>Printhead Alignment</u> Details the Printhead Alignment procedure.

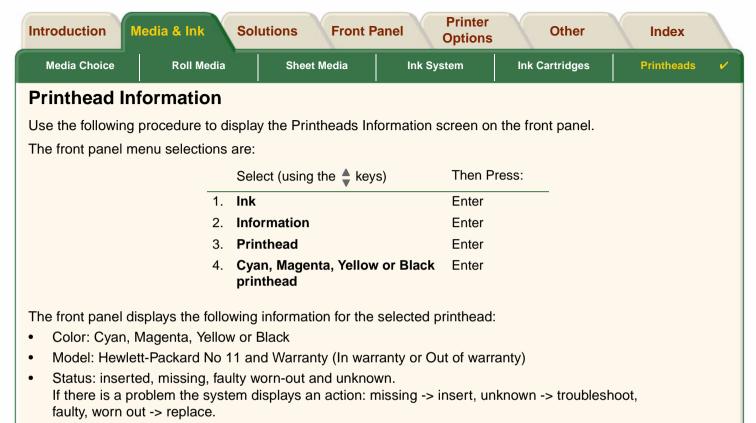












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- Expiration date.
- Serial Number.

000

- Ink Used: in cc and % used.
- Paper Jams.
- If the printheads are aligned and color calibrated.





Printhead Replacement

The animation sequence shows how to replace a printhead in the printer.

The front-panel menu selections are:

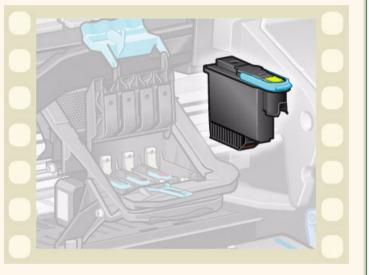
Select (using the 💂 keys)	Then Press:
1. Ink	Enter
2. Replace Printheads	Enter

Click on the

```
icon to run the animation
```

sequence. A <u>printable version</u> of the sequence is also available.

Once you have replaced the printhead, if you have media loaded, the printer prompts you to start the <u>Printhead Alignment</u> procedure. If no media is loaded



the printer prompts you to load paper and then automatically starts the alignment. The alignment takes several minutes to complete and then printer will then prompts you to run the <u>Color Calibration</u> procedure.







Printhead Alignment

You should have one of the following types of paper loaded before attempting to align the printheads: HP Bright White Inkjet Paper (Bond), HP Coated Paper, HP Heavyweight Coated Paper, HP High-Gloss Photo Paper, HP Satin Poster Paper or Plain Paper. If you try to do this with any other type of paper loaded, the printer will prompt you to load a different type of paper before letting you align the printheads.

From time to time you may be required to align the printheads to ensure maximum print quality. To select Printhead Alignment manually, make sure you have the correct type of roll or sheet media loaded.

There are two types of alignment: Standard which will take about 4½ minutes; and Special which takes about 11 minutes. Standard alignment is recommended for normal use and requires paper of at least A4/Letter-size, loaded in landscape mode. Special alignment should be used to correct pen to paper spacing variations which would be show by variations in vertical line quality, particularly in wide plots and fast print modes. Special alignment requires paper of at least A3/B-size, loaded in landscape mode. Two separate prints are made.

Then use the following front panel menu selections to start the alignment:

	Select (using the 💂 keys)	Then Press:
1.	Ink	Enter
2.	Align Printheads	Enter
3.	Standard (4.5 minutes) Special (11 minutes)	Enter



Once you have made this selection the printer starts the alignment process which then takes several minutes.

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The printer will also automatically use the standard alignment process to align its printheads after <u>Printhead Replacement</u>. When the alignment procedure completes after a printhead replacement, the printer prompts you to ask if you want to run the <u>Color Calibration</u> procedure.



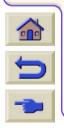


Solutions

These topics guide you through the different procedures required to troubleshoot and find the solutions to various problems you could encounter while using your printer.

The Solutions Tab contains these topics:

- <u>Solving Problems</u> helps you to quickly troubleshoot your specific problem; it also contains instructions on where you can get further information.
- <u>Image Quality Problems</u> helps you to solve any image quality problems you may be experiencing. It takes you through the troubleshooting procedure step-by-step.
- <u>Ink Supply Problems</u> guides you when you have problems installing the consumable ink items: the ink cartridges and printheads.
- <u>Media Problems</u> contains information on what to do if you have image smears or marks on your media, and also what to do if you have a media jam.
- <u>Image Error</u> contains information on what to do if the image that your printer printed is incorrect, or not what you expected.
- Other Problems covers miscellaneous problems you could face.
- <u>Getting Help</u> explains what to do if you cannot solve the problem you are having. It also provides full details of the steps to take to contact the Hewlett-Packard Customer Care Center.

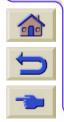


Introduction	Media & Ink	Solutions	Front Panel	Printer Options	Other	Index
SolvingProblemsv⁄	Image Quality Problems	Ink Supply Problems	Media Problems	Image Error	Other Problems	Getting Help

Solving Problems

- To find the meaning of front-panel messages, see Message Descriptions.
- If you know the problem is related to a certain task, first check the relevant section in this manual, for step-bystep procedures. Use this manual's index or table of contents to find the section. For example, if you are having difficulty with page formatting, refer to <u>Page Format</u>.
- If the problem is directly related to the quality of your printed images, refer first to Image Quality Problems.
- Refer to the appropriate topic:
 - Ink Supply Problems
 - <u>Media Problems</u>
 - <u>Communication Problems</u>
 - Image Error
 - Other Problems
- If the problem could be related to your software driver, and you are using an HP driver, refer to the driver's troubleshooting documentation and the on-line help in your application software.

- If the problem has no obvious cause, refer to <u>Finding the Source of Your Problem</u>.
- If you still cannot solve the problem, see <u>Getting Help</u>.







Finding the Source of Your Problem

- 1. Look at the front-panel display for messages. See <u>Message Descriptions</u> for a full explanation of front-panel messages.
- 2. Test the printer.
 - Switch the printer off on the front of the printer. Make sure that the power cord is firmly inserted in the
 printer and plugged in to an outlet that you know works.
 - Switch the printer on and make sure the front-panel display shows the HP welcome screen followed by Main Menu after a short initialization period.
- 3. Test your computer hardware and interface.
 - Make sure that you have the correct interface cable between the computer and the printer and that it is firmly connected to the correct ports (see the Assembly and Set-up Poster).

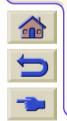






Image Quality Problems

Your **HP DesignJet 500PS** printer provides a full troubleshooting utility to ensure you can always quickly overcome any image problems you encounter. You should use this utility whenever you (and not the printer) perceive a problem with print quality.

Often what you believe to be a print quality problem is in fact caused by incorrect configuration of the printer for the type of image you are trying to print. Always check <u>Configuration Correction</u> as your first diagnostic task to find the cause of your problem.

If a message, such as "PRINTHEADS not functional" appears on the front-panel of your printer, follow the instructions given for the particular message (see <u>Message Descriptions</u>).

The types of problems you could possibly encounter are:

- Stepped Lines
- Incomplete Lines
- <u>Color Accuracy</u>
- <u>Horizontal Banding</u>
- <u>Color Alignment</u>

Whenever you see any of these problems work through the <u>Troubleshooting Procedure</u> replying to the questions displayed on the front panel. This will lead you to correct remedial action required to solve your image quality problem.







Configuration Correction

Before attempting the image quality diagnostic procedures contained in this section, you should first check that the printer is correctly configured to print what you want. Many problems concerned with image quality can be solved by correcting the way the printer is configured.

- 1. To achieve the best performance from your printer, only use **genuine** HP accessories and supplies, whose reliability and performance have been thoroughly tested to give trouble-free performance and best-quality prints. For details of HP media, see <u>Paper Types</u>.
- 2. Make sure that the **Type of paper** selected in the front panel is the same type of paper loaded into the printer. To check this go to the Roll or Sheet menu in the front panel and press **Enter**.
- To ensure the maximum print quality use HP certified media only. For details of HP media see <u>Physical</u> <u>Characteristics of Paper Types</u>. You can also look at the web page <u>http://www.hp.com/go/designJet</u> for the most up-to-date information.
- 4. Make sure that the **Print quality** (Fast, Normal, Best) used for your printer is correct. This is set in the Print Setup dialog box of the printer driver or in the front panel from the Set-up menu. The printer driver setting overrides the front panel setting.
- 5. Select **Best** print mode for maximum print quality.
- 6. For **Non-HP drivers**, set front panel media settings to match the media type loaded in the printer. The documentation that came with your software should provide information about media type/print quality settings.



7. If your image quality problem is color accuracy related, go to <u>Color Accuracy</u> for further configuration help.





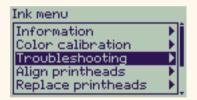
Troubleshooting Procedure

Working through the Troubleshooting procedure should always be your first action when you encounter image quality problems. Refer to the <u>Troubleshooting Flow Chart</u> for a description of the sequence of processes used to complete troubleshooting procedure.

It is important that the paper loaded for this procedure is exactly that used when you encountered image quality problems, type (for example, glossy paper) and size. If you use a different kind of paper or a different size, you stand less likelihood of resolving the problem.

Running the Troubleshooting Utility

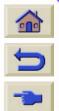
- 1. From the main front-panel menu, select the **Ink menu** (()) and press **Enter**.
- 2. Select Troubleshooting and press Enter.
- The printer first checks to see whether the printheads are aligned. Misalignment of the printheads is a common cause of image quality problems. If they are not aligned, you are prompted to accept <u>Printhead Alignment</u>. This procedure requires a few continuetors of paper loaded and take



requires a few centimeters of paper loaded and takes several minutes to perform.

NOTE: Note that you do not have to interpret the patterns printed by the Printhead Alignment routine.

4. If the printheads do not seem to require alignment, the printer prints **Diagnostic Print A**. See <u>Diagnostic Print</u> <u>A Interpretation</u> for full details of how to use this diagnostic print.





Diagnostic Print A Interpretation

Diagnostic Print A contains several blocks of color and a block of thin black broken lines (the lines are actually very much closer than those represented here).

- 1. Examine the broken lines in Diagnostic Print A carefully and indicate whether there are problems with them. The sorts of problems to look for here are:
 - Jaggedness or serrations in the thin lines, like this:

though not necessarily perfectly aligned. The irregularities that are significant extend along the whole of the length of the lines. Shorter irregularities, arranged in columns, can be ignored at this stage.

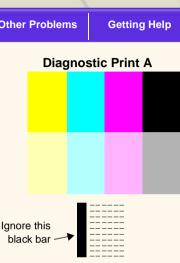
- 2. Examine the blocks of color in Diagnostic Print A carefully and indicate whether there are problems with them. The sorts of problems to look for here are:
 - White streaks or bands in the solid blocks.
- If you indicate that there is a problem with the dashed lines in Diagnostic Print A, you are prompted to use the <u>Advance Calibration</u> routine; your printer will be at step 3 of the routine (if you don't want to continue with calibration, press the **Cancel** key).
- 4. If there are problems in the blocks of color in Diagnostic Print A, for example white streaks or bands, the printer will try to clean the printheads that have the problem. A printhead can be cleaned up to three times this way; after that it cannot be cleaned and you will be told; the **Troubleshooting** routine will finish. In that case we recommend that



you try to reprint your print, and then, if necessary, start the **Troubleshooting** routine again. After cleaning the printheads, the printer reprints the blocks of color (but not the black lines) in Diagnostic Print A, and asks you to examine it again (as in step 1).

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- 5
- If there are no problems the first time you print Diagnostic Print A, the printer prints Diagnostic Print B. See <u>Diagnostic Print B Interpretation</u> for full details of how to use this diagnostic print.





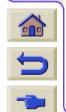




If none of the patterns or blocks in the two **Diagnostic Prints** shows any problem, it could be that your image quality problem is caused by a wrong setting in your software, or perhaps the job should have been printed with the **Print quality** set to **Best** instead of **Normal** or **Draft**.

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If the **Troubleshooting** routine didn't indicate that printhead alignment was necessary, you can select **Align printheads** in the Ink menu to try to solve any further image quality problems.

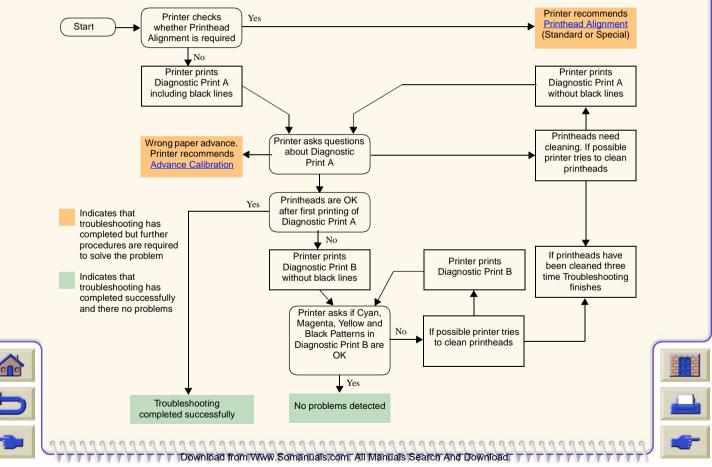






Troubleshooting Flow Chart

The following diagram shows the flow of the troubleshooting procedure.





Advance Calibration

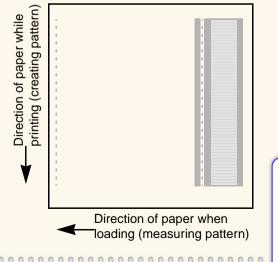
It is important that the paper loaded for this calibration is exactly that used for normal printing, both in quality (for example, glossy paper) and in width (for example, A0 or 36-inch). Either roll or sheet paper can be used. The routine prints a pattern and then cuts the roll (the cutter must be set to On—see <u>Controlling the Cutter</u>) or ejects the sheet; it requires paper that is at least 65 cm/25.5 inches long and at least 50 cm/19.7 inches wide. You must then reload that piece of paper *as a sheet*, so that the printer can accurately measure the pattern, and make whatever adjustments are appropriate to the amount it advances between printing swaths of data. (See <u>Loading Sheet Media</u>)

The pattern printed is solely for the use of the printer; you are not expected to relate any of its characteristics to the quality of your images.

- 1. From the main front-panel menu, with the correct paper loaded, select the Paper menu (Ca) and press Enter.
- 2. Select Advance calibration and press Enter.
- Select Create pattern and press Enter. The printer prints its calibration pattern (as represented here) and cuts or ejects the paper.
- 4. Load the sheet printed side up with the dotted line at the top (that is, rotated 90°).
- 5. Now select **Measure pattern** and press **Enter**. The printer reads the calibration pattern and makes the appropriate internal adjustments.



These <u>Advance Calibration Values</u> are used whenever you print on the same type of media until you have used the Advance calibration twice more with different types of media.





Advance Calibration Values

The printer stores the advance calibration values of the last two different types of media used for the calibration. When you print the printer ties to match the media you have selected to the stored values. If there is a match the printer applies the stored Advance calibration values.

If the type of media you are using has not been used for either of the last two Advance calibrations the printer uses a set default values for your media.

The Restore factory option of the Advance calibration menu erases any stored advance calibration values from the printer memory. This means that until you run the advance calibration again the printer will use the factory default values for all types of media.

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Advance calibration	
Create pattern → Measure pattern → Restore factory	







Stepped Lines

When you look at the image you have printed there are '**stepped lines**' in the borders of arrows and diagonal lines. The lines should be straight with no stepping.

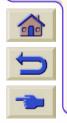
The following is an example of what you might see if you have problems with stepped lines.



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To solve this problem:

- 1. Increase the dpi setting by changing the print quality to Best in the front panel and driver software.
- 2. The problems may be inherent in the image you are trying to print. Try to improve the image with the **application** that generated the file.







Incomplete Lines

When you look at the image you have printed there are:

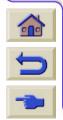
- Missing or faint lines.
- Printed characters having missing parts to them.

The following is an example of what you might see if you have problems with incomplete lines.



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See the Troubleshooting Procedure for instructions on how to solve this problem.



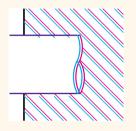




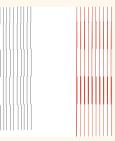
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Color Alignment

When you look at the image you have printed:



The colored lines are printed double and they are the wrong colors



Vertical lines are misaligned or fuzzy (not smooth)



The borders of colored blocks are overlapped and the overlapping areas have different colors in them.

See the <u>Troubleshooting Procedure</u> for instructions on how to solve this problem.









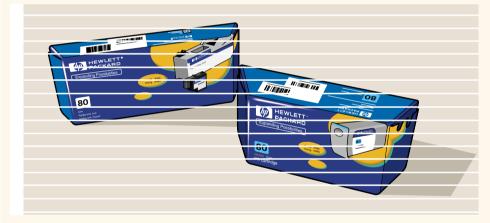
Horizontal Banding

When you look at the image you have printed there are light or dark lines on the image, these are particularly highlighted in high density ink areas. This problem is known as banding.

IMPORTANT Banding can occur to a certain degree in Fast and Normal mode when printing high density prints. To obtain the best image always print in Best Mode.

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The following is an example of what you might see if you have problems with banding.



See the Troubleshooting Procedure for instructions on how to solve this problem.







Color Accuracy

These are the areas you should review when troubleshooting a color accuracy problem:

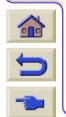
Media

Ensure the media loaded is genuine HP media and the correct media type selected on the front panel and in the driver.

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Related Topics

- <u>Color Consistency problems</u>
- Long Term Color Bleeding (Glossy Papers)
- Color Accuracy Configuration
- Additional Color Accuracy Information









Color Consistency problems

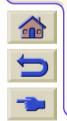
- Some media may discolor or change with age. Check that your media is fresh and has been stored correctly.
- If the environmental conditions you are printing in change rapidly, you may see changes in the color consistency. By reducing the time the print stays in extreme environmental conditions after being printed (especially very high humidity) you can reduce the color consistency problems.
- There may be color changes between images printed on your **HP DesignJet 500PS** and other types HP DesignJet printers. This is quite normal because the other printers use different ink.

Long Term Color Bleeding (Glossy Papers)

High ambient humidity at your location could cause the colors to bleed into the paper making the lines fuzzy and bleary.

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• Change the paper that you are printing with or remove the printer from the high humidity conditions.







Color Accuracy Configuration

The configurations of the printer defines how ink is applied to each type of media. Use the information in the following table to configure your printer and software for best color accuracy.

Location of Setting	Setting Description	Selection
Ink Menu	Color Calibration > Calibrate Paper	Set to match the media type loaded in the printer. See <u>Paper Types</u> .

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Additional Color Accuracy Information

The means of accurately managing the colors printed by your printer vary with the software application and driver being used. Refer to the following documentation:

- On-line documentation in the drivers shipped with your printer.
- If you cannot find any reason for the discrepancy, before getting help, find out for which CMYK printer inks the colors have been specified.

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Ink Supply Problems

Most of the problems that you could encounter when working with HP Ink Supplies are solved with guidance from the front panel. The only exception to this is the <u>Unknown Printhead Error</u>. A full list of front messages are supplied in <u>Message Descriptions</u>.

Printhead Problems after Replacement

If, after replacing the printheads, the printer complains about wrong or missing printheads, perform the following steps:

- Check that you have removed the protective tape from the printhead.
- Insert the printhead into the carriage assembly, but this time close the cover using the latch.
- Replace the printhead with a new one, see <u>Printhead Replacement</u>.

Problems Inserting the Ink Cartridge

- 1. Make sure that you have the correct HP Ink Supplies ink cartridge.
- 2. Make sure that the cartridge is the correct color for that slot.
- 3. Make sure the cartridge is in the correct orientation, with the color coded label at the top.

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CAUTION: Never clean inside the ink cartridge slots.

Problems Inserting the Printhead

- 1. Make sure that you have the correct HP Ink Supplies printhead.
- 2. Make sure that the printhead is the correct color for that slot.
- 3. Make sure that the printhead is the correct orientation.
- See <u>Printhead Replacement</u> for further details.





Unknown Printhead Error

An unknown printhead error occurs when the one of the printheads is causing a problem but the system cannot detect which one it is. Whenever this happens the front panel displays this error message. The number of printheads with unknown errors will either be all the color printheads or all the printheads.

Use the following procedure to isolate the faulty printhead.

- 1. Select Replace Printheads from the front panel.
- 2. Open the carriage cover and remove ALL the printheads.
- 3. Reinsert the Cyan printhead only and close the carriage cover and the window.
- 4. Check the front panel—if the status of the Cyan printhead is **X** or **?**, the conclusion is that the Cyan printhead is faulty and must be replaced. If the status of the Cyan printhead is OK, the conclusion is that the Cyan printhead is working correctly. Repeat the process from **step 1** for the other color printheads to identify which one is failing.

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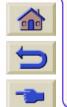


Printheads not aligned.

Paper type not valid

to align printheads.

Press ENTER to continue



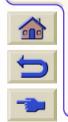
Introduction	Media & Ink	Solutions	Front Panel	Printer Options	Other	Index
Solving Problems	Image Quality Problems	Ink Supply Problems	Media Problems 🗸	Image Error	Other Problems	Getting Help

Media Problems

- <u>Media</u> Details the general rules to follow to avoid media problems.
- <u>Clearing a Media Jam</u> Describes how to clear a media jam.
- Ink Marks on the Media
 Details the way to solve ink mark problems: warped lines, blurred lines, marks or scratches on glossy paper.
- <u>Media Loading Problems</u> Explains what to do when the front panel keeps indicating that media is misaligned or incorrectly positioned.

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• <u>Media Output Problems</u> Explains what to do when the prints fall on the floor or do not stack correctly in the media bin.







Media

Always make sure that you are using the appropriate media for your image and that it is consistent with your software application. To ensure color accuracy and print-quality performance of the printer, use only media types that have been certified for your printer.

Use of non-HP media or HP media not certified for your printer may significantly reduce the color and print quality of your images. For details of HP media, see <u>Paper Types</u>.

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Clearing a Media Jam

If the front panel displays this message:

There is probably paper jammed in the printer. Paper jams can have various causes:

- The paper is too thick or too thin for the printer, or is otherwise not supported.
- The paper is creased or misaligned or is bubbled.
- Too much ink is being placed on the paper causing it to cockle or bubble.
- The end of the roll of paper is glued to the core and won't advance further.
- Pieces of paper or paper powder are clogging up the cutter guide or other moving parts.

See <u>Removing Jammed Paper</u> for full instructions on how to clear jammed paper.

Possibly a paper jam 1. Open window 2. Switch power off 3. Clear paper path 4. Switch power on 5. Align printheads





Introduction	Media & Ink	Solutions	Front Panel	Printer Options	Other	Index
Solving Problems	Image Quality Problems	Ink Supply Problems	Media Problems 🗸	Image Error	Other Problems	Getting Help

Removing Jammed Paper

- 1. Open the window.
- 2. Switch the printer off at the front.
- 3. If necessary, carefully move the printhead carriage out of the way—if possible all the way to the enclosed area on the left or the right. Which way you are able to move it depends on where the paper is jammed.

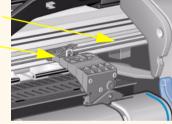
CAUTION: When moving the printhead carriage, touch only the black plastic parts.

4. If necessary, carefully move the paper cutter out of the way to the left, or to the right depending on where the paper is jammed (though if moved right it may block the paper path).



Guide

CAUTION: The cutter is easily moved by holding it as close as possible to the guide running across the width of the printer. Be careful not to touch the metal slider bar that runs across the printer.



- 5. If necessary, lift the blue paper lever, to release any trapped paper. Remember to lower it again when you have finished.
- 6. Carefully remove any of the jammed paper which you can easily lift up and out from the top of the printer.
- 7. Carefully pull the rest of the roll or sheet down and out of the printer. You may need to cut the edge of the roll with scissors.



8. Check that the printing zone, including the cutter guide, the paper path, and the area where the printhead carriage is parked, is clear and clean; remove any paper powder by brushing it away or with a vacuum cleaner.

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More ...



Removing Jammed Paper (continued)

- CAUTION: The area where the printhead carriage is parked can get quite dirty; be careful not to get ink on your hands.
- 9. Close the window and switch on the printer.
- 10. Wait for the printer to finish initializing.
- 11. Press the **Form Feed and Cut** key on the front panel to eject any small pieces of paper that are still in the paper path.
- 12. Reload the paper as normal (see <u>Loading Roll Media</u> or <u>Loading Sheet Media</u>). If you are using roll paper you may need to trim the edge first, to ensure that it is straight.
- NOTE: If there is still paper left in the paper path, try loading a sheet of stiff or rigid paper into the printer, such as heavy coated or matte film; this will help to force out any paper jammed in the paper path.
- 13. If the cutter seems to be causing the problem, check in <u>Paper Types</u> that the type of paper is supported by the printer. Try disabling the cutter from the front panel; use $\bigcirc \rightarrow Cutter \rightarrow Off$.

You are strongly recommended to align the printheads (see <u>Printhead Alignment</u>) after clearing a paper jam, as the problem may have caused the printheads to be misaligned.

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Back ...



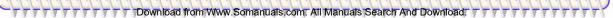
Introduction	Media & Ink	Solutions	Front Panel	Printer Options	Other	Index
Solving Problems	Image Quality Problems	Ink Supply Problems	Media Problems 🗸	Image Error	Other Problems	Getting Help

Ink Marks on the Media

- Warped Lines
- Blurred Lines (Ink "Bleeds" from Lines)
- <u>Marks or Scratches on Glossy Paper after Printing</u>
- Smears or Scratching on Your Printed Media







Introduction	Media & Ink	Solutions	Front Panel	Printer Options	Other	Index
Solving Problems	Image Quality Problems	Ink Supply Problems	Media Problems 🗸	Image Error	Other Problems	Getting Help

Warped Lines

- The media itself may be warped. This can happen if it has been used or not been stored in the correct environmental conditions.
- For all environmental specifications, see <u>Environmental Specifications</u>.

Blurred Lines (Ink "Bleeds" from Lines)

• Perhaps you have adjusted the drying time in the front-panel menu to speed up the printer output. Set "Drying time" to "Automatic".

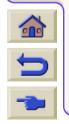
For details of drying time adjustments, see Ink System.

Marks or Scratches on Glossy Paper after Printing

Glossy paper may be extremely sensitive to the bin or anything that it comes into contact with directly after printing. This will depend on the amount of ink printed and the environmental conditions that are present at the time of printing. Avoid any contact with the paper and handle the print with care until quite some time has elapsed.

NOTE: Included with HP media is a book "*Printer Tips*" that includes a section on troubleshooting paper problems.

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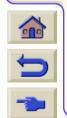
Smears or Scratching on Your Printed Media

This problem can appear on paper-based coated media if a lot of ink is printed quickly. The media cannot absorb the ink quickly enough and becomes distorted. As the printheads move over the media, the printheads and the media come into contact with each other and the printed image is smeared.

- 1. Press the **Cancel** key on the front panel; if you continue to print, the paper may damage the printheads.
- 2. Cancel the print job from your computer application.
- 3. In order to obtain better results perform the following:
 - Use HP recommended media. If the image you are printing has intense color, use HP Heavy Coated Paper.
 - Try to increase the print margins by relocating the image in the page from your software applications.

If the above fails to solve the problem of smears and scratching, change the media you are using to a non-paper based media such as HP Clear film.

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Media Loading Problems

The front panel keeps indicating that media is misaligned or incorrectly positioned.

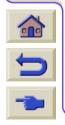
Roll media

- The roll media may be loaded the wrong way. The paper should load over the roll towards you, see <u>Loading</u> <u>Roll Media</u>.
- The paper may be skewed. The right-hand edge must be parallel to the blue line on the front media deflector.
- Ensure that the paper is wrapped tightly on the roll.
- Check that the paper is correctly loaded onto the spindle, see Installing a New Roll on the Printer.

Sheet media

- The sheet media must be loaded with the right-hand edge against the blue line on the printer platen and the front edge against the blue line just after the pinch rollers, see <u>Loading Sheet Media</u>.
- The media may be crumpled or warped or may have irregular edges.
- If you are using hand-cut media, the edges may not form a right-angle or they may be rough. Do not use handcut media. Use only purchased sheet media.
- If the media is curled with the curl up it will be very difficult to load. It is easier to load it with the curl down

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Media Output Problems

Prints Fall on the Floor After Being Cut

- Make sure the media bin is open.
- Do not let more than twenty prints accumulate in the bin.
- Make sure roll media is loaded correctly. If the paper is loaded incorrectly, the natural curl of the media may cause it to miss the bin and fall to the floor.

Prints Do Not Stack Properly in the Media Bin

- The printer may be too close to the end of the roll. The natural curl near the end of the roll can cause stacking
 problems. Load a new roll or remove prints manually as they are completed.
- If you are mixing prints or nesting sets of several different sizes, you may have stacking problems because of the different sizes of media in the bin.

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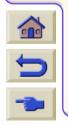


Introduction	Media & Ink	Solutions	Front Panel	Printer Options	Other	Index
Solving Problems	Image Quality Problems	Ink Supply Problems	Media Problems	Image Error 🖌	Other Problems	Getting Help

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Image Error

- Image is Incomplete Details the actions to take when the print is: Blank, Partial or has suffered <u>clipping</u>.
- <u>Printed Image Incorrect</u> Explains why the image is:
 - In one portion of the printing area.
 - Unexpectedly rotated.
 - Mirrored.
 - Distorted or unintelligible.
 - Overlaid with another image.
 - Does not obey Page Format and Rotate commands.
 - Other Sources of Information Lists others sources of information for image problems.





Introduction	Media & Ink	Solutions	Front Panel	Printer Options	Other	Index
Solving Problems	Image Quality Problems	Ink Supply Problems	Media Problems	Image Error 🖌	Other Problems	Getting Help

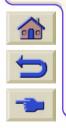
Image is Incomplete

- Output Contains Only a Partial Print
- Image is Clipped
- Long-Axis Print Is Clipped

Output Contains Only a Partial Print

- Did you press Cancel or Form Feed and Cut before all the data was received by the printer? If so, you have ended the data transmission and will have to print the page again (you normally don't need to press Form Feed and Cut to unload the print).
- The **I/O Setup** > **I/O Timeout** setting may be too short. From the front-panel menu you can increase the I/O Timeout setting to a longer period and then send the print again.
- The file may be too large for the printer's memory. You can install an optional HP-GL/2 Accessory Card and extra memory in your printer, see <u>Memory</u>.
- There may be a communications problem between your computer and the printer. Check your interface cable.
- Check to make sure that your software settings are correct for your current page size (for example, long-axis prints).

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Introduction	Media & Ink	Solutions	Front Panel	Printer Options	Other	Index
Solving Problems	Image Quality Problems	Ink Supply Problems	Media Problems	Image Error 🖌	Other Problems	Getting Help

Image is Clipped

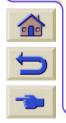
- This normally indicates a discrepancy between the actual printing area on the loaded media and the printing
 area as understood by your software. For general advice on printing areas and page size, see <u>Printable Area</u>.
- Check the actual printing area for the media size you have loaded (printing area = media size margins). For media size and margins, see <u>Printable Area</u>.
- Check what your software understands to be the printing area (which it may call "printable area" or "imagable area"). For example, some software applications assume standard printing areas that are larger than those used in this printer.
- You may have asked to rotate the page from portrait to landscape on media that is not wide enough, for example a D/A1-size page rotated on a D/A1-size roll.

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- If necessary, change the printing area in your software.
- The file may be too large for the printer's memory.

Long-Axis Print Is Clipped

- Does your software support long-axis prints?
- Have you specified an appropriate media size in your software?
- There may not be sufficient memory.





Introduction	Media & Ink	Solutions	Front Panel	Printer Options	Other	Index
Solving Problems	Image Quality Problems	Ink Supply Problems	Media Problems	Image Error 🖌	Other Problems	Getting Help

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Printed Image Incorrect

- Image is in One Portion of the Printing Area
- Print is Distorted or Unintelligible
- One Image Overlays Another on the Same Sheet







Introduction	Media & Ink	Solutions	Front Panel	Printer Options	Other	Index
Solving Problems	Image Quality Problems	Ink Supply Problems	Media Problems	Image Error 🖌	Other Problems	Getting Help

Image is in One Portion of the Printing Area

- Is the page size configured in the software too small?
- Are you sure that your software doesn't believe the image to be in one quadrant of the page?
- Otherwise, this indicates an incompatibility between the software and the printer:
- Is your software configured for this printer? For general advice, see the Assmebly and Set-up Poster. For advice specific to your software, see the documentation supplied with the driver.

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Introduction	Media & Ink	Solutions	Front Panel	Printer Options	Other	Index
Solving Problems	Image Quality Problems	Ink Supply Problems	Media Problems	Image Error 🖌	Other Problems	Getting Help

Print is Distorted or Unintelligible

- The interface cable between your computer and the printer could be faulty. Try another cable to see if the problem is corrected.
- If you have connected your computer to the parallel port on the printer, make sure you are using a genuine HP
 parallel interface cable.
- Depending on the software, drivers and RIPs you are using with your printer, there will be different solutions to solving this problem. Refer to the Vendor's User Documentation for details.

One Image Overlays Another on the Same Sheet

The I/O Setup / I/O Timeout setting may be too long. From the front-panel menu decrease the setting and print
again.

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Other Sources of Information

If you don't find the solution to the problem here, other sources of help are:

 The documentation supplied with the driver that you are using to manage the output from your software application to the printer.

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Introduction	Media & Ink	Solutions	Front Panel	Printer Options	Other	Index
Solving Problems	Image Quality Problems	Ink Supply Problems	Media Problems	Image Error	Other Problems 🗸	Getting Help

Other Problems

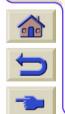
<u>Communication Problems</u>

Describes typical problems you could encounter with communications between your computer and the printer.

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- <u>Printer Does not Print</u>
 Details common causes for the printer failing to print.
- <u>Printer Seems Too Slow</u>
 Lists the reasons why printing may slow down.









Communication Problems

Symptoms are:

- The front-panel display does not show **Processing** when you are sending a print to the printer.
- Your computer displays an error message when you are trying to print.
- Your computer or printer "hangs" (stays idle) while communication is taking place. However, note that large prints can take a correspondingly long time to print.
- Your printed output shows random or inexplicable errors (misplaced lines, partial graphics etc.)

How to solve the problem:

- Have you selected the correct printer in your software?
- Does the printer work correctly when printing from other software?
- If the printer is connected to a network, try using it when connected directly to your computer through parallel or USB ports.
- If your printer is connected to your computer through any other intermediate devices, such as switch boxes, buffer boxes, cable adapters, cable converters, etc., try using it when connected directly to your computer.
- Try another interface cable. For details of supported cables, see <u>Connection Specifications</u>.

File Size and Memory

There is no direct relationship between file size on your computer and memory used in the printer to print that file.



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In fact, because of file compression (and general complexity) it is often impossible to estimate how much memory will be used. This means that some large prints will work fine, but some smaller prints may not and you will have to add more memory to your printer.





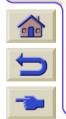


Printer Does not Print

- You may have a power problem. If there is no activity at all from the printer, and power on indicator in the power switch on the front of the printer is off, check that the power cable is connected correctly and that there is power available at the socket.
- You may have a problem with your application driver. Is your software configured for this printer? For general advice, see the Assembly and Set-up Poster. For advice specific to your software, see the documentation supplied with the driver.
- The file may be too large for the printer's memory. This is the case if the front panel displays "Out of memorydata was lost". Look on your computer screen for any error message; some drivers allow you to choose a different printing mode and try to send the file again.

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If you continue to have problems, see <u>Getting Help</u>.





Introduction	Media & Ink	Solutions	Front Panel	Printer Options	Other	Index
Solving Problems	Image Quality Problems	Ink Supply Problems	Media Problems	Image Error	Other Problems 🗸	Getting Help

Printer Seems Too Slow

- Did you specify **Best** print quality level on the front panel? Best quality mode prints take longer to print.
- Did you specify the right media type when loading the media? For details of front-panel media types, see <u>Paper Types</u>. To find out the printer's current media type setting, see <u>Obtaining Roll or Sheet Paper Informa-</u> <u>tion</u>.
- The printhead may need replacing; see <u>Printhead Replacement</u>
- Did you specify a Manual Dry Time in the front panel? Change the dry time to Automatic see Ink System.
- If the printer is in Fast mode and the file it is printing contains high density inked areas, the printer may need to slow down to compensate.

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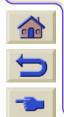


(Introduction	Media & Ink	Solutions	Front Panel	Printer Options	Other	Index
ſ	Solving Problems	Image Quality Problems	Ink Supply Problems	Media Problems	Image Error	Other Problems	Getting Help 🖌

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Getting Help

- <u>HP Customer Care</u>
 Details about the HP Customer Care program.
- <u>What to Do Before You Call</u> Information on what you should do before you contact your local HP Customer Care Center.
- <u>HP DesignJet Online</u> How to get help and much more via the World Wide Web.







HP Customer Care

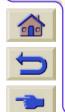
As your strategic support partner, we make it our business to help keep your business running smoothly. HP Customer Care offers award-winning support to ensure you get the most from your HP DesignJet.

The contact details for your local HP Customer Care Center are provided in the Hewlett-Packard Customer Care booklet supplied with your printer.

HP Customer Care provides comprehensive, proven support expertise and leverages new technologies to give customers unique end-to-end support. Services include setup and installation, troubleshooting tools, warranty upgrades, repair and exchange services, phone and Web support, software updates, and self-maintenance services.

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To find out more about HP Customer Care, please visit us at: www.hp.com/go/support.



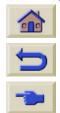




What to Do Before You Call

- 1. Review the troubleshooting suggestions in this section:
 - In the relevant driver documentation supplied with this printer (for users sending PostScript files or those using Microsoft Windows).
 - If you have installed third party software drivers and RIPs refer to that user documentation.
- 2. If the problem appears to be related to your software application, first contact your software vendor.
- 3. If you still have difficulty, refer to the *HP Support Services* booklet shipped with this printer. This document contains a comprehensive list of various support services available to help solve printer problems.
- 4. If you do call one of the Hewlett-Packard offices, please have the following information available to help us answer your questions more quickly:
 - The printer you are using (the product number and the serial number, found on the label at the back of the printer).
 - The computer you are using.
 - Any special equipment or software you are using (for example, spoolers, networks, switch-boxes, modems, or special software drivers).
 - The cable you are using (by part number) and where you purchased it.
 - The type of interface used on your printer (parallel, or network).
 - The software name and version you are currently using.
 - If the problem is a system error it will have a error number; record the error number and have it ready. See
 Printer Does not Print.

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HP DesignJet Online

Direct access to HP and the information you want, when you need it. Register now! <u>www.hp.com/go/designjet</u>

HP DesignJet Online is a free, web-based "user club" exclusive to HP DesignJet users. Having registered, the user has unrestricted access to a range of useful services, the emphasis being on "useful", as this is definitely *not* a sales-oriented site.

Communication from HP to users includes:

- a quarterly newsletter focussing on usage tips, technical briefings and examples of HP DesignJet applications around the world;
- full information on worldwide HP Customer Care contacts;
- an on-line HP DesignJet Diagnosis troubleshooting tool;
- a calendar of HP DesignJet-related events and programs;
- on-line access to training videos and selected user documents;
- and immediate information on new products.

Communication from the users to HP includes:

- feedback on HP DesignJet features;
- automatic contact with HP Customer Care from the troubleshooting tool, for HP to follow up;
- and the chance to ask technical questions on large-format printing to industry experts.



And finally, communication from user to user includes the chance to win prizes by submitting HP DesignJet success stories, as well as a user-to-user discussion forum where users can share best practices and ask for advice from their fellow professionals.



HP DesignJet Online is available in English, German, French, Italian, Spanish and Portuguese.





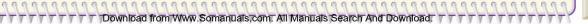
Front Panel

The printer's front panel is a user-friendly interface that gives you access to a comprehensive set of printer functions. There is also information on your ink consumable items which is continually updated.

- <u>The Front Panel</u>
- Menu Structure
- Navigating the Menu System
- Message Descriptions



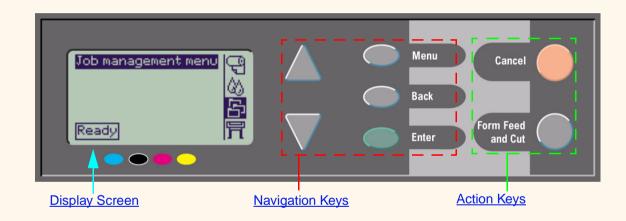






The Front Panel

The panel on the front of your printer is the principal way of changing the behavior of the printer, apart from any software driven controls that may be provided through the application in use. The front panel of the printer contains the following functional areas:





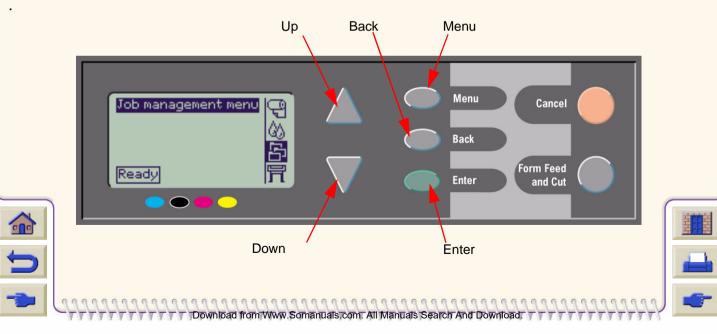


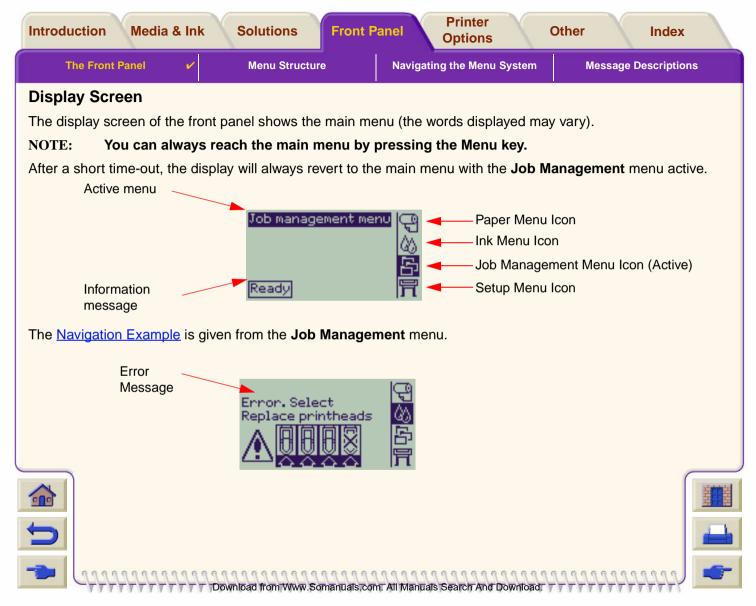


Navigation Keys

The display section of the front panel consists of an LCD display and the following five navigation keys, provided to navigate through the menus displayed on the screen:

- The Up ▲ and ▼ Down keys let you scroll through the various items in a menu list.
- The **Menu** key takes you to the main screen. It cancels any choices that have not yet been selected by pressing the **Enter** key.
- The **Back** key takes you to the previous screen.
- The **Enter** key selects the item in the menu list and makes it current. If there are sub-selections to be made, this key takes you to them; otherwise it takes you back a screen.



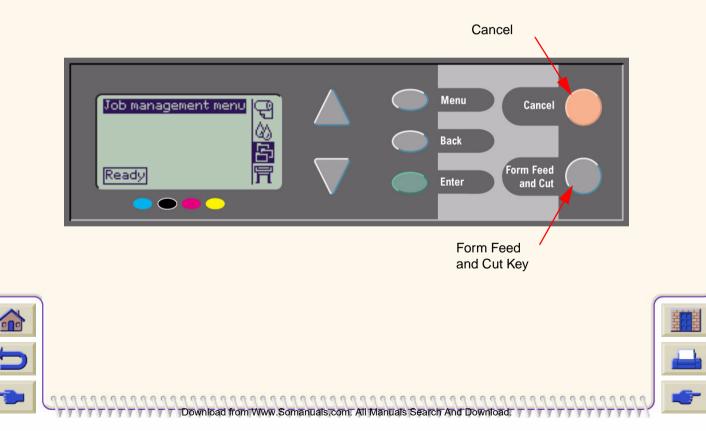




Action Keys

The **Cancel** key cancels the current printer operation (printing or preparing for printing). It will also cancel the current menu selection and return to the main menu if a menu option is highlighted.

The Form Feed and Cut key causes a sheet to be ejected or the roll to be advanced and cut.



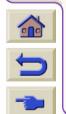


Menu Structure

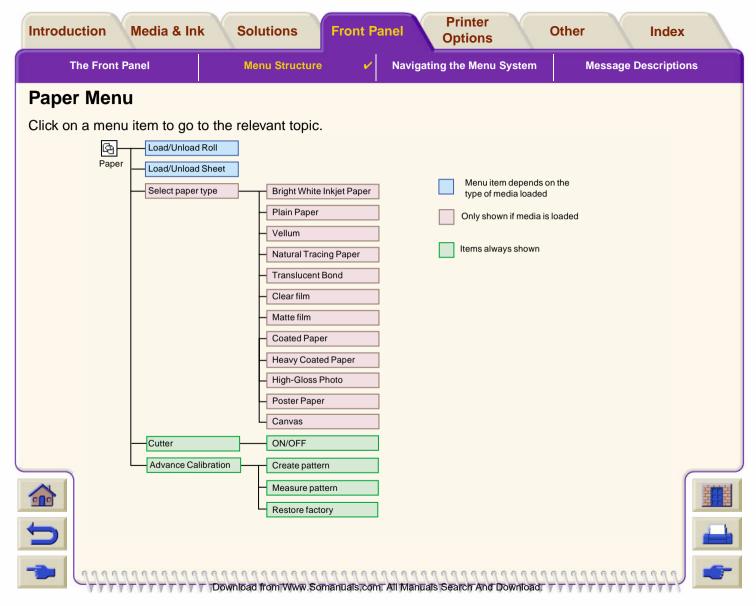
The front panel display area screen shows the four classes of menu options available represented with specific icons. Click on the icon to displays its menu structure.

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- <u>Paper Menu</u>
- 🖄 Ink Menu
- Job Management Menu
- 🛱 <u>Set-up Menu</u>



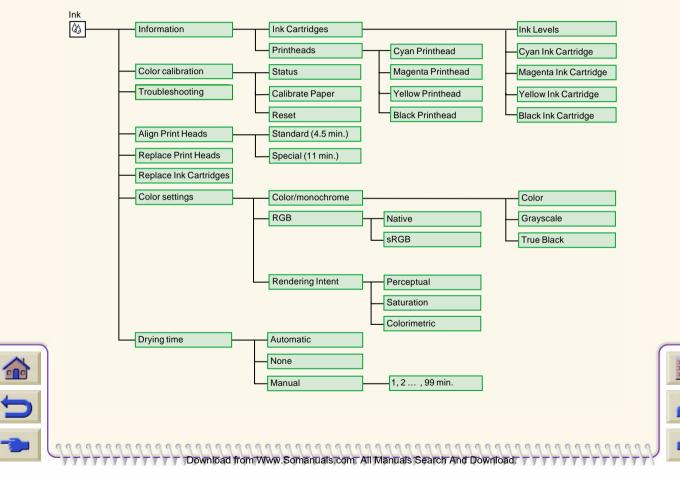






Ink Menu

Click on a menu item to go to the relevant topic.





Job Management Menu

There are no Job Management Menu options available for your model of HP DesignJet Printer.





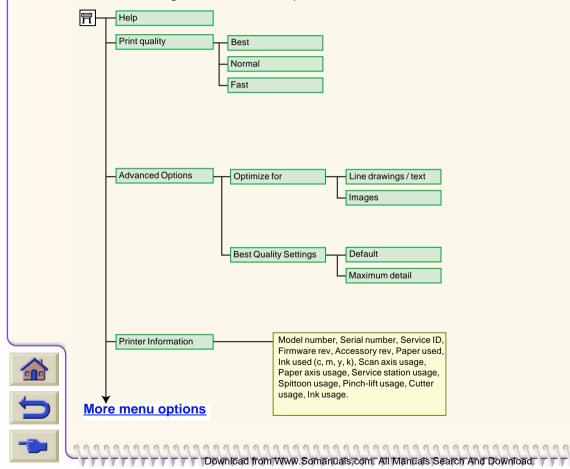


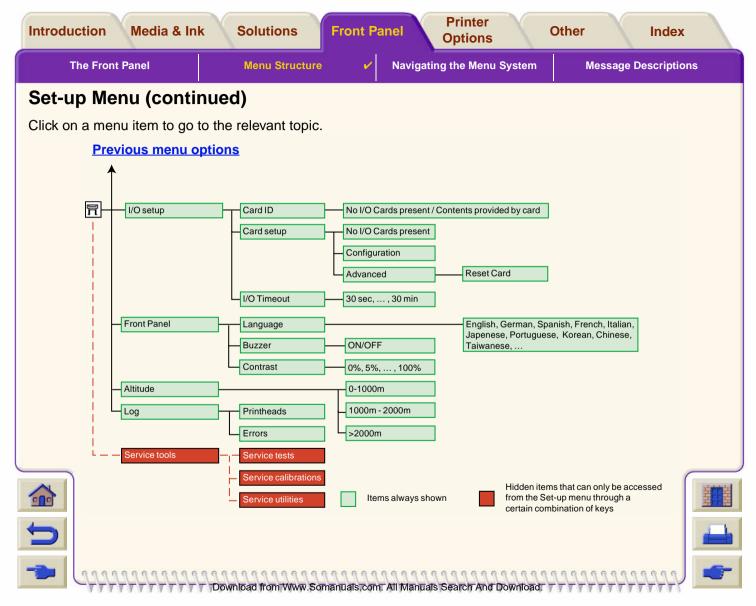


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Set-up Menu

Click on a menu item to go to the relevant topic.







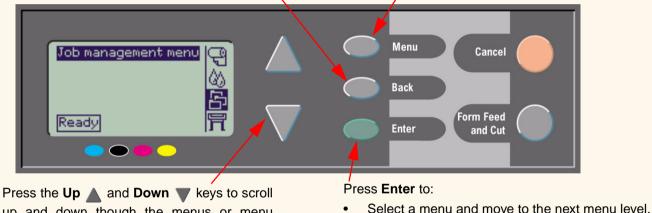
Navigating the Menu System

From the top level of the menu system, you can navigate through the menus using the display keys. Any menu item followed by a greater-than symbol (>), indicates that a further level of menu items is available.

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Press **Back** to return to the previous menu level without changing any menu selections.

Press **Menu** to return to the top level without changing any menu selections. This will bring you to the four menu icons.



up and down though the menus or menu options.

• Change the value of the selected menu item.



See <u>Navigation Example</u> for a brief overview of the menu system.





Navigation Example

This section provides a typical example of how to navigate through the menus to configure a specific print option.

How to Set the Ink-drying Time to Two Minutes

The Front Panel Menu Structure diagram for the <u>lnk Menu</u> shows that the path to the Drying time option is: lnk menu $\bigotimes \rightarrow$ **Drying time**

Use the following procedure to set the ink-drying time to two minutes.

Key Action Display Result The Ink menu icon is 1. Use the Up 🔺 and Ink menu highlighted to allow you to **Down** we keys to highselect the Ink menu options. Ink levels light the Ink menu icon. 2. Press the Enter key to The display shows the Ink Ink menu enter the printer Ink menu to allow you to select Information Drving Time. menu. Color calibration Troubleshooting Align printheads Replace printheads Continued ...

Setting Drying Time Navigation Example



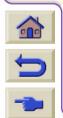
The Fro	nt Panel	Menu Structure		Menu System 🖌 Message Descrip
_		Setting Drying Tin	ne Navigation Example	e (continued)
	Key Action		Display	Result
3. Use the Up Down ▼ highlight th time menu		s to Align rying Repl. tion. Color	enu printheads ace printheads ace ink cartridgs. r settings ng time = 1 min	The display shows the Drying time option highlighted.
4.	Press the Ente enter the Dryi n menu.	ng time	matic	The display shows the Drying time menu to allow you to select the type of drying time you require.
5.	Use the Up Down keys keys highlight the M menu option.	s to anual Auto None	g time matic al=1min ♪	The display shows the Manual option highlighted.
P	revious			Continued



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The I	Front Panel	Menu Structure	Options Other Index Structure Navigating the Menu System ✓ Message Descriptions				
		Setting Drying Tir	ing Time Navigation Example (continued)				
	Key Acti	on	Display	Result			
	6. Press the Ent enter the Man time setting m	ual drying		The display shows the Manual drying time setting menu to allow you to select the drying time you require.			
	7. Press the Up once to select minutes.			The display shows the Manual drying time setting menu with two minutes selected.			
	8. Press the Ent set the drying minutes.	- Inditio		If the front-panel Buzzer is set ON, there will be a short 'beep' to confirm the change. A tick mark ($$) in the right side of the field confirms the value.			
	Previous			Continued	_		
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Introduction Media & In	k Solutions	Front Panel	Printer Options	Other	Inc	dex	
The Front Panel	Menu Structure	Navigati	ng the Menu Sy	vstem 🖌 🛛 Mes	sage Descri	iptions	
Setting Drying Time Navigation Example (continued)							
Key Ac	tion	Display		Result			
9. Press the To return to the menu.	IT IN 10	_	The menu	display shows u.	the Ink		
Previous							











Message Descriptions

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This is a list of the error messages in the front-panel display. If an action is needed, it is shown in *italics* in the **Explanation and Action** column. The messages are listed in alphabetical order. Other front-panel messages, such as prompts, are included in the descriptions of the relevant procedures elsewhere in this *document*.

Message	Explanation and Action				
Alignment error due to printheads. Press ENTER to see faulty printheads	The printer was aligning its printheads, but encountered an error due to some printheads not printing properly. Alignment has stopped. <i>Press the Enter key.</i>				
Alignment error Press ENTER to continue	The printer was aligning its printheads, but encountered an error. Alignment has stopped. <i>Press the Enter key</i> .				
Cartridges will expire in days: nn	One or more of the cartridges are about to expire. nn is the number of days until expiry date of the cartridge that will expire first. The cartridges that are about to expire are indicated below this message. <i>For an explanation of the replacement procedure, see</i> Ink Cartridge Replacement.				
Color calibration error Press ENTER to continue	The printer was performing a calibration of its color system, but encountered an error. <i>Press the Enter key.</i>				
	For more Messages, click on the Next Page button				

Front Panel Messages



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Solutions Fro	Options	Other	Index Message Descriptio				
Front Panel Messages (continued)							
Message Explanation and Action							
Error Select Replace Printheads							
on-HP not an HP pr HP ink. Any non-HP ink o If you want to	oduct. Your product warran damage caused to your pr cartridges is not the respo o replace the non-HP ink c	nty only applies w rinter resulting fro nsibility of Hewle cartridges, select	when you use om the use of ett-Packard. <i>Replace</i> and				
on-HP an HP produ printheads. / use of non-H Packard. If you want to	If you want to replace the non-HP printheads, select Replace and press the Enter key. Otherwise, select Continue and press Enter to						
	Menu Structure Front Panel I Is The printer I is missing or h icons refer fi and Yellow (For an expla Printhead R for The printer I pon-HP not an HP pr hP ink. Any non-HP ink of for The printer I press the Er continue. for The printer I press the Er continue. for The printer I press the Er continue. for The printer I press the Er continue.	Menu Structure Navigating the Menu Front Panel Messages (continued) Explanation and Image: Second Colspan="2">Continued Image: Second Colspan="2">Second Colspan="2"Second Colspan="2"Second Colspan="2"Second Colspan="2"Se	Menu Structure Navigating the Menu System Front Panel Messages (continued) Explanation and Action Image: Second System System System System System System Image: Second System				





he Front Panel	Menu Structure Navigating the Menu System Message Desc						
Front Panel Messages (continued)							
Message	Explanation and Action						
Ink cartridge replacement required	The printer has detected that one or more of the ink cartridges is missing or has an error, as indicated by flashing crosses. The four icons refer from left to right to the Cyan (•), Black (•), Magenta (•) and Yellow (•) cartridges. For an explanation of the icons and details of the replacement procedure, see Ink Cartridges.						
INK CARTRIDGES need t functional. Replace before replacing printheads	be You have attempted to replace printheads, but the printer has detected that there are ink cartridges that are wrong. The ink cartridges must be replaced before the printheads can be replaced <i>First replace the faulty, empty or missing ink cartridges and then replace the printheads. See <u>Ink Cartridge Replacement</u> and <u>Printhead Replacement</u>.</i>						
Install missing cartridges replace empty cartridges before replacing printhead	cartridges are empty and some are missing. The empty cartridges						

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duction Media &	Ink Solutions	Front Panol	inter tions Oth	ner	Index	
The Front Panel	Menu Structure	Navigating the	e Menu System	Message De	escriptions	
	Front Pan	el Messages (continu	ued)			
Mess	sage	Explanatio	on and Action			
Install missing of before replacing	g printheads or more installed Follow th	eplacing printheads, burcartridges are missing. The before the printheads are procedure for Printheads are procedure for Printheads are procedure.	The missing cartrid re replaced.	ges must be		
	Open window and check printhead cover is properly You have replaced one or more printheads and the printer's check has found that the printhead cover is not securely closed.					
Open window a proper installati printheads	on of setup printer, y printhead printer has setup pri Open the relocate	system start-up, which occurs when you first install the you need to install the setup printheads. These special ads cannot be used for printing, but must be used when the has been powered off. The printer has detected that the printheads have not been installed correctly. <i>he window and follow subsequent instructions to reinstall or e the setup printheads. Contact HP for advice if the setup ads are missing or cannot be installed correctly.</i>			or 🦰	
)		For more Me	essages, click on the	Next Page bu	itton	



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Introduct	ion Media & In	k Soluti	ons Front F		Printer Options	Other	X	Index	
The	e Front Panel	Menu	Structure	Navigating	the Menu Systen	n Mes	sage De	scriptions	~
Front Panel Messages (continued)									
	Messag	je		Explana	tion and Action	on			
	Option not available	le now	You have selected an option in the menu that is not available at the moment. (The printer may be busy, out of ink, out of paper, etc.)					he	
	Out of paper		The printer ran of <i>Load a sheet or</i> (20 inches) <i>wide</i>	roll that is at le					
	Paper advance cal recommended. Press ENTER to c		You are recomm ensure the optin Press the Enter <u>Calibration</u> .	num print qual	ity.				
	Paper advance cal recommended. Lo and select Paper a calibration. Press ENTER to fi	ad paper advance	You are recomm ensure the optin <i>Load a sheet or</i> from the Paper	num print qual <i>roll of paper a</i>	ity. and then select	Advance ca			
	Paper loaded with too much skew Press ENTER to retry Press CANCEL to abort		During the loadi is skewed too m ('Skew' is the an line.) <i>Either:</i> Press th Or : Press the C	uch, that is, it igle between th e Enter key to	has not been lo he actual pape o restart the loa	baded straig r edge and th ading procedu	nt enou ne corre	gh.	
C				For more I	Messages, click	on the Next I	Page bu	itton	

Introduct	ion Media & Ink Sol	utions Front Panel Printer Options Other Index								
The	Front Panel Mo	enu Structure Navigating the Menu System Message Descriptions								
	Front Panel Messages (continued)									
	Message	Explanation and Action								
	Paper mispositioned	The paper is not properly positioned in the printer. Either it is out of the load line margins or it has moved too much from its previous position. <i>Reload the paper following the normal procedure, to solve this problem. See <u>Loading Roll Media</u> and <u>Loading Sheet Media</u>.</i>								
	Paper not found Press ENTER to retry Press CANCEL to abort	During the loading of paper, the printer has detected that no paper has been loaded. <i>Either</i> : Press the <i>Enter</i> key to restart the loading procedure; <i>Or</i> : Press the <i>Cancel</i> key to cancel paper loading.								
	Paper not present. Load paper to print calibratior pattern	The paper axis calibration routine has been triggered with out having paper loaded. Load paper; see <u>Advance Calibration</u> for details of the routine.								
	Paper too big to scan the pattern after printing it	During the paper loading for the Calibration routine, the printer has detected that the it will not be able to load the later when it will be needed for scanning. The minimum size required for the print is 65 cm (25 inches) long and 50 cm (20 inches) wide. <i>Load a smaller sheet that satisfies this minimum requirement.</i>								
		For more Messages, click on the Next Page button								

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For more Messages, click on the Next Page button



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troduction Media & Ink	Solutions Front	Panel Printer Options	Other Index			
The Front Panel	Menu Structure	Navigating the Menu System	Message Descriptions 🗸			
	Front Panel Me	ssages (continued)				
Messag	е	Explanation and Action				
Paper too big Press ENTER to re Press CANCEL to a	etry found that it is abort loaded properly	While loading paper into the printer (roll or sheet), the printer has found that it is either too wide or too long (only for sheet) to be loaded properly. <i>Press the Enter key to load smaller paper, or the Cancel key to stop</i> <i>the load.</i>				
Paper too small for diagnostic print	the printer is to	ooting utility has found that the sir o small for a Diagnostic Print . aper, or a sheet that is A3-size o				
Paper too small to align printheads Load bigger size to align Press ENTER to co	Unload the pap Paper menu) a Letter-size in la	ed is not big enough to contain th per (select Unload roll or Unload and then load paper that is large e andscape mode for Standard align node for Special alignment.	I sheet from the enough—at least A4/			
Paper too small to pattern	calibration patt	neet that is at least 65 cm (25 incl				
		For more Messages, click on	the Next Page button			





Introduct	ion Media & Ink	Solutions From	t Panel Prin Optio		Other	Index				
The	e Front Panel	Menu Structure	Navigating the I	Menu System	Message D	escriptions 🖌				
	Front Panel Messages (continued)									
	Message		Explanation and Action							
	Paper too smallWhile loading paper into the printer (roll or sheet), the printer has found that it is either too narrow or too short (only for sheet) to be loaded properly.Press CANCEL to abortIoaded properly. Press the Enter key to load larger paper, or the Cancel key to stop 									
	Paper type not valid to align printheads Change paper type t align Press ENTER to cor	the paper load o The paper load <i>Unload the pa</i> ttinue Paper menu)	uested the printer to a ded is not the right ty aded is not big enoug aper (select Unload and then load pape be <u>Printhead Alignme</u>	ype to use to ali gh to contain the roll or Unload s er that is the righ	gn the printhea alignment pat sheet from the	ads. tern.				
	Pattern not found Reload it again, plea	se the pattern wa Reload the sh	The printer is trying to perform a scan of the calibration pattern, but the pattern was not found. Reload the sheet that was printed by the Create pattern part of the calibration routine.							
	Possibly a paper jam 1. Open window 2. Switch power 3. Clear paper p 4. Switch power 5. Align printhea	detected that off however, it ma ath <i>Follow theses</i> on <u>a Media Jam</u> . ds strongly recor	e paper jammed in th a motor is blocked a ay be due to some o steps to check the pa When the jammed j mmended to align th become misaligned	nd the likely cau ther cause.) aper path, as de paper has been le printheads, as	use is a paper j scribed in <u>Clea</u> cleared, you a s they are quite	are				
			F 14							

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For more Messages, click on the Next Page button



The Front Panel M	enu Structure Navigating the Menu System Message Descrip
	Front Panel Messages (continued)
Message	Explanation and Action
Printhead replacement not available now. Cancel print jobs before replacement	 You have requested the printer to replace one or more printheads, but the printer is busy printing a job and cannot honor the request now. <i>Either</i>: press the <i>Cancel</i> key to cancel the job that is currently printing, and then again select <i>Replace Printheads</i> (from the <i>Ink</i> system menu). Or: wait until the job has finished printing (and there are no more jobs in the print queue), and then again select <i>Replace Printheads</i> (from the <i>Ink</i> system menu).
Printhead warning Poor print quality	A problem has occurred with one or more printheads. The printheads are still functional. The problem was detected either during printhead alignment or during troubleshooting. If you have completed the routine, the system was unable to clean the printheads fully. You should use the <u>Troubleshooting Procedure</u> to correct any image quality problems that may be apparent; alternatively, you should replace the printheads (see <u>Printhead Replacement</u>).
Printheads not aligned Paper type not valid to align printheads Press ENTER to continue	You have replaced one or more printheads but the printer has detected that you do not have the right type of paper loaded for the alignment process. Press the Enter key to load the correct type of paper, or the Cancel key to stop the load process.

Introduct	ion Media & Inl	k Solutio	ons Front I	Panel	Printer Options	Other		Index	
The	Front Panel	Menu	Structure	Navigati	ng the Menu Syste	em M	lessage D	escriptions	~
		F	ront Panel Mes	sages (co	ntinued)				
	Messag	je	Explanation and Action						
	Printheads not alig Paper too small to align printheads Press ENTER to c		You have replaced one or more printheads but the printer has detected that you do not have wide enough paper loaded for the alignment process. <i>Press the Enter key to load larger paper, or the Cancel key to stop</i> <i>the load process.</i>						
PRINTHEADS not functional Replace printheads Cancel print			The printer is attempting to print a job, but finds that there is a problem with the printheads. You may either replace the printheads at this stage or cancel the print. Select the required option and press the Enter key. If you decide to replace them, you will be told which ones are failing or missing.						
	Printheads require Load paper and se printheads. Press ENTER to fi	elect Align	The printer has Press the Enter select Align pri <u>Alignment</u> .	key to con	inue. Load a sh	eet or roll of	[:] paper, a		
	Printheads require Press ENTER to a		The printer has Press the Enter						
	Problem found dur calibration	ing	A general proble routine. Respond to any indicating ink or calibration rout	other mess paper prob	ages that appea	ar on the fro	nt panel,		
C				For mo	re Messages, clic	ck on the Nex	kt Page b	utton	



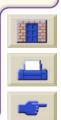
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Introduction Media & Inf	Solutions Front	Panel Printer Options	Other	Index
The Front Panel	Menu Structure	Navigating the Menu Sy	stem Message	Descriptions 🖌
	Front Panel Me	essages (continued)		
Messag	е	Explanation and A	Action	
Problems detected CARTRIDGES. Continue process a them. Press ENTER to co	ink system. and replace Press the Ente faulty ink cartri	or with the ink cartridges d r key and then follow the i dges.		
Reload paper		or in the paper, as shown i I procedure to reload the p		
Replace empty car before replacing pr	intheads printheads, but are empty. The printheads are Press the Ente	ested the printer to permit the printer has detected the empty cartridges must be replaced. For key and follow the proce coribed in <u>Ink Cartridge Re</u>	hat one or more cartri replaced before the dure for replacing em	·
Right edge of roll to load line Press ENTER to re Press CANCEL to	where it should try <i>Either</i> : Press t	ut of the load line margins- l be loaded. the Enter key to restart the Cancel key to cancel pape	e loading procedure;	

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For more Messages, click on the Next Page button





Introduct	ion Media & Ink	Solutions Fro	nt Panel	Printer Options	Other	Index	
The	Front Panel	Menu Structure	Navigatin	g the Menu System	Message [Descriptions	~
		Front Panel M	lessages (cor	ntinued)			
	Message		Explar	nation and Action			
Right edge of sheet too far from load lineDuring the loading of a sheet of paper, the printer has detected the paper is too far to the left; it should be aligned close to the line painted on the right side of the platen.Press CANCEL to abort Either : Press the Enter key to restart the loading procedure; 							
	Roll edge not found Please check roll edges are non-clearDuring the loading of a roll, the printer cannot detect the sid of the paper. A possible cause is that the media is transpar (clear); only non-clear media are supported.Press ENTER to retry Press CANCEL to abortEither: Press the Enter key to restart the loading procedur Or: Press the Cancel key to cancel paper loading.				a is transparent	dge	
	Roll right edge too far load line Press ENTER to retry Press CANCEL to abo	paper is too painted on th port Either : Pres	far to the left; it he right side of t s <i>the Enter key</i>	f paper, the printer should be aligned he platen. to restart the loadi o cancel paper load	with the blue line		
	Sheet edge not found Please check sheet ed non-clear Press ENTER to retry Press CANCEL to abo	dges are edge of the p (clear); only <i>Either: Pres</i>	paper. A possibl non-clear media s the Enter key	et, the printer cannot e cause is that the a are supported. to restart the loadi o cancel paper load	media is transpa		
			For more	e Messages, click o	n the Next Page b	button	



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Introduct	ion Media & Ink Solu	tions Front P	anel Printer Options	Ot	her	Index		
The	Front Panel Mei	nu Structure	Navigating the Menu	System	Message Des	criptions 🖌		
		Front Panel Mess	sages (continued)					
	Message		Explanation and Action					
	Sheet not loaded Load sheet with printed pattern	no sheet was fou	hat was printed by the			ut		
	Sheet too long Please check it is not a roll Press ENTER to retry Press CANCEL to abort	sheet appears to Check that the p Either : Press the Or : Press the Ca		oad the sheet process. If the	t again;			
	Troubleshooting finished Resume normal printing If problem persists select Troubleshooting again Press ENTER to continue	this stage perform could damage th you have given, t defects in the Dia Press the Enter the problem recu select Replace	nished the Troublesh n further cleaning on e other ones. Howeve he printheads require agnostic Print. key. Then resume you rs, try using the Trou Printheads from the find the printheads that a	the printhead er, according e cleaning be ur normal prin bleshooting front panel (in	ds because this to the evaluatio cause there are nting activities. routine again, o	in e If or		
	Troubleshooting requires paper for a diagnostic print.	The Troubleshoo the printer. <i>Load a roll of pa</i> l	ting utility has found th per.	nat there is no	o paper loaded	in		
C			For more Message	s, click on the	e Next Page butt	on 🔛		
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Introduct	tion Media & Ink	Solutio	ns Front	Panel	Printer Options	Other	Index	ĸ
The	e Front Panel	Menu S	Structure	Navigat	ing the Menu Syste	m Me	ssage Descriptic	ons 🗸
		Fr	ont Panel Mes	ssages (co	ontinued)			
	Message			Expla	anation and Acti	on		
	Unable to initialize ink Call HP representative	-	The system car Call HP for serv		sfully complete th	e startup.		
	Unable to prepare ink system. Open window to check SETUP printheads During ink system start-up, the purge of the ink system has failed and the system is asking you if the preparation has completed. Check the setup printheads and then follow the instructions in the front panel and respond to further questions.							
	Unknown ink cartridges. Press ENTER to continue. The ink cartridges are not recognized by the printer as ink cartridges approved by HP, and there is at least one that is new. Press the Enter key.						< cartridges	
	Unknown paper forma Reload paper	1	unknown. <i>Reload the pap</i>	er following	f the paper loaded I the normal proce I <u>Media</u> or <u>Loading</u>	edure, to solv	ve this	
	Unknown paper type Select paper type				ed in the printer is from the printer r		the printer.	
	Unknown printheads. Press ENTER to cont	inue.		, though th	ognized by the pri e printer can still u		heads	
				For mo	ore Messages, click	on the Next	Page button	

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The Front Panel	Menu Structure	Navigating	the Menu System	Message Descriptio
	Front Pane	I Messages (cont	inued)	
Messag	je	Explana	ation and Action	
Warning! Machine calibratio be performed. Ref for instructions.	ns need to Follow the	calibrations for the period of	· •	
Warning: color cal done on this pape	r type performed them. <i>To calibra</i> t	Ir has detected that I on this paper type, te color for the curre ibration \rightarrow Calibra	and the system is o ent paper type, sele	configured to do
Warning: printhea aligned	since the l	r has detected that last replacement. d align the printhead enu.		-

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Printer Options

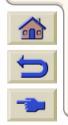
The printer has many options that you can use to ensure that the image you print has the look and appearance you want. You can select printer settings either from the front panel or from the driver you have for the printer. In most cases the driver settings override the front panel settings.

The Print Options Tab contains these topics:

• <u>Page Format</u> deals with the formatting of the image and how to use the settings to obtain the formatting that you want. It also explains how to control the orientation of the image on the media.

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- Image Appearance describes how to control the overall appearance of your prints.
- Print Management describes how to efficiently manage your printing.
- <u>Printer Configuration</u> details how to set specific configuration parameters of your printer.

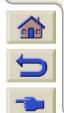




Introductio	on Med	lia & Ink	Solutions	Front Panel	Printer Options	Other		Index
Page Fo	ormat v		ge Size in the t Panel	Image Appearance	e Print Ma	nagement	Printer	Configuration

Page Format

• <u>Page Description</u> explains how to make sure the you obtain the prints from your printer in the format you want.





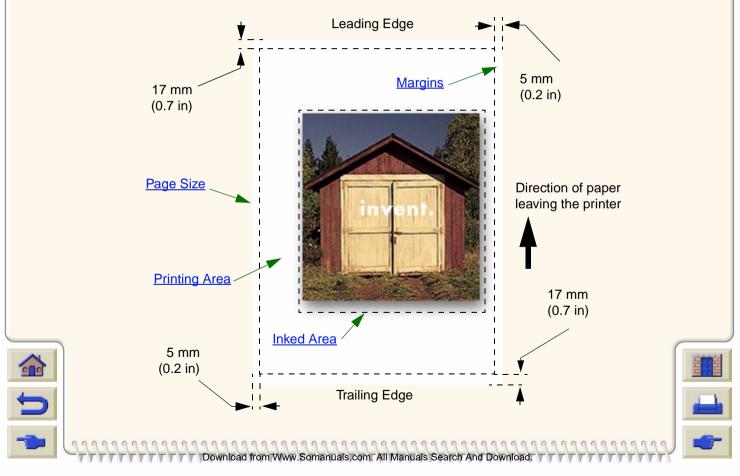






Page Description

This section explains how to make sure that the printer produces your print in the page format you want.



Introduction	Media & Ink	Solutions	Front Panel	Printer Options	Other		Index	
Page Format		ge Size in the t Panel	Image Appearance	Print Manaç	gement	Print	ter Configuration	

Page Size

Page size can be specified from the front panel or in the software, where it may be called "Page Size", "Media Size", "Paper Size", etc., and where the options include, for example, ISO A3, ANSI Letter, Custom. If your software does not define the page size in the print file, the front-panel setting is used. Otherwise, the software setting overrides the front-panel setting.

Margins

The margins are set to ensure the maximum printable area on your paper. The two side margins are 5.0 mm. The margin settings for the leading and trailing edges are 17 mm.

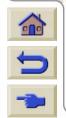
Printing Area

The <u>printing area</u> is the page size minus the margins. For a table showing the printing areas for standard paper sizes, see <u>Printable Area</u>.

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Inked Area

inked area is the smallest rectangle that contains the entire image.







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Setting Page Size in the Front Panel

No front panel page size options are available for your printer model.







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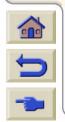


Image Appearance

These topics explain how you can control the overall appearance of your prints.

- <u>Set-up MenuPrinting Images in Grayscale</u> describes how to print color images in <u>grayscale</u>.
- <u>Print Speeds and Print Quality</u> lists typical printing times by output quality.
- <u>Print Quality</u> describes the different print modes that are available with your printer.
- Advanced Options

describes the various optimization and quality enhancement methods available.







Set-up Menu Printing Images in Grayscale

There are times when you may want to print a color image in grayscale because it is faster. Examples of this are:

- You want a draft where color is not important, for example to check that the image is not going to be clipped.
- You want a version for photocopying in black and white.

When you choose the *Ink* menu *Color settings* > *Grayscale* option, the printer renders colors as Grayscale rather. If you only want to use black ink to print in grayscale, you should select the *Ink* menu *Color settings* > *True black* option.





Introduction	Media & Ink	Solutions	Front Panel		Printer Options	Other		Index	
Page Format		ge Size in the t Panel	Image Appearance	~	Print Manag	gement	Print	ter Configuration	

Print Speeds and Print Quality

More Printing Times

The following table lists some Typical Printing Times (line drawings @ 20-25°C and 30-60% relative humidity).

Papar	Color/Grayscale	Quality	ANSI-D size	ANSI-E size
Paper	Color/Grayscale	Quality	Time (in secs)	Time (in secs)
Bright White	Color	Best	235	440
		Normal	120	225
		Draft	45	85
	Grayscale	Best	135	250
		Normal	80	150
		Draft	45	80
Coated Paper	Color	Best	490	980
		Normal	120	225
		Draft	85	160
	Grayscale	Best	325	625
		Normal	135	250
		Draft	45	80

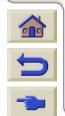
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Typical Printing Times





troduction Media & I	nk Solutions	Front Panel	Printer Options	Other	Index
Page Format Set	ing Page Size in the Front Panel	Image Appearance	Print Managem	nent Printer C	onfiguration
	Typical F	Printing Times (co	ontinued)		
Banar	Color/Grayscale	Quality	ANSI-D size	ANSI-E size	
Paper	Color/Grayscale	Quanty	Time (in secs)	Time (in secs)	
Heavy	Color	Best	490	980	
Coated Paper		Normal	120	225	
		Draft	85	160	
	Grayscale	Best	435	870	
		Normal	135	250	
		Draft	45	80	
Glossy Paper	Color	Best	630	1200	
		Normal	435	830	
		Draft	325	620	
	Grayscale	Best	630	1200	
		Normal	435	830	
		Draft	325	620	





Print Quality

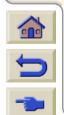
You can set the overall print quality from the front panel (*Set-Up > Print Quality*). In general choose:

In general choose:

- Fast for maximum productivity. Ideal for checking prints, when print quality is not the most important.
- **Normal** to get a good combination of print quality and productivity. Ideal for line drawings with good print quality and at speed.
- **Best** to get the high image quality. You can increase the resolution of the Best setting with the <u>Best Quality</u> <u>Settings</u>.

You can print images in different settings to see which gives the best combination of throughput and quality for your application.

See <u>Print Resolution</u> for information on what resolution is used with each print quality setting.



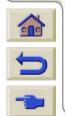




Advanced Options

Your **HP DesignJet 500PS** printer provides several advanced optimization and quality enhancement features to allow you to obtain the printed results you require.

- Improving Line Quality and Graphics Details
- Best Quality Settings







Improving Line Quality and Graphics Details

The Set-up menu Optimize for option allows you the select the correct mode for the type of job you are printing. Two modes are provided: Line drawings/text and Images.

Selecting the *Line drawings/text* option smooths the fine graduations along the angles and curves of the printed image to refine the overall print quality. This enhancement produces:

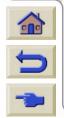
- Crisper lines.
- Finer detail.
- Line drawings with a 'sharp' appearance.

The Line drawings/text option only affects prints that have color content.

Selecting *Line drawings/text* (the default setting) ensures you will always get the best quality color prints, except when printing the following files:

- Mixed lines and scanned color images.
- Mixed lines and color photographs.

For these files it is recommended that you select Optimize for > Images.





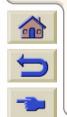


Best Quality Settings

If you have selected the Best option as the <u>Print Quality</u> setting for you print session but require an even higher resolution for your print job, you will need to change the Best quality setting.

The Best Print quality option provides 600x600 dpi resolution in normal mode and 1200x600 dpi in maximum detail mode.

NOTE: Using the maximum detail mode will improve resolution but will reduce printing speed and increase memory requirements.







Print Management

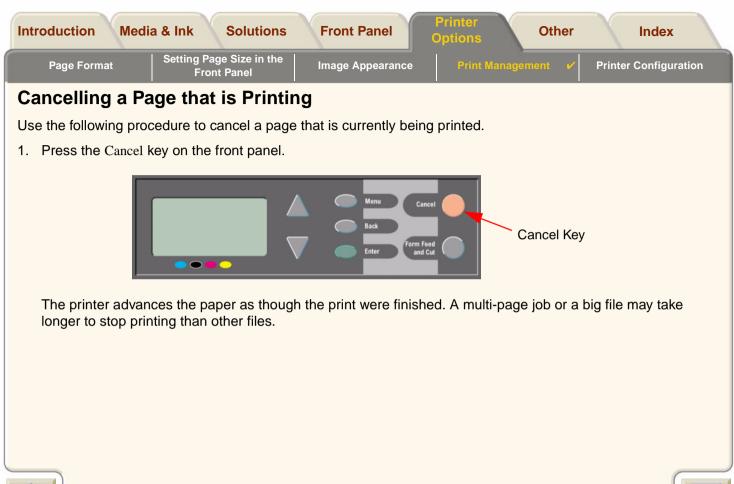
These topics describe the best methods of managing the work that the printer is doing.

- <u>Cancelling a Page that is Printing</u> Shows you how to cancel a page that is currently being printed.
- <u>Cancelling the Drying Time</u>

Shows you how release a page from the printer before the drying time has finished.











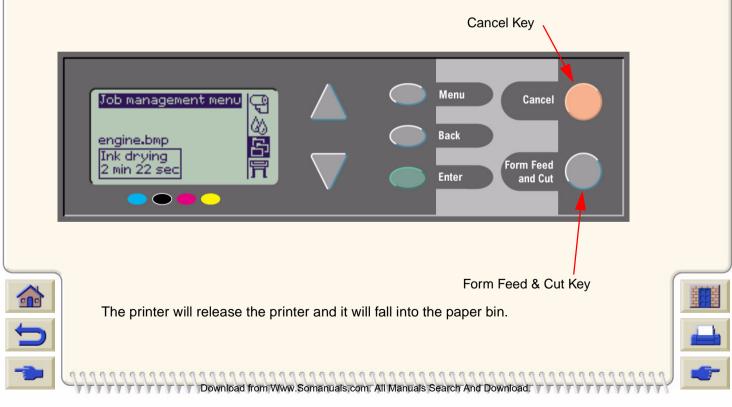


Cancelling the Drying Time

CAUTION: Use caution when performing this procedure as an image which has had insufficient time to dry could get damaged.

Use the following procedure to cancel the drying time for a job that is waiting for the end of drying time.

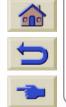
1. Press Cancel or Form Feed & Cut on the front panel.





- Front Panel Setup
- <u>Altitude Setting</u>
- Graphics Language and Networks
- Setting up the I/O Card
- <u>Controlling the Cutter</u>
- Upgrading Your Printer
- <u>Color Settings</u>
- Logs









Printer Information

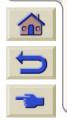
Your **HP DesignJet 500PS** printer provides an information display on the front panel that shows the current configuration of the system. You can also print out this information directly on your printer.

Select Set-up > *Printer information* to view the information.

The printer information screen shows the following information about your printer:

- Model Number
- Serial Number
- Service ID
- Firmware Rev.
- Accessory Rev.
- Paper Used
- Ink used (C, M, Y, K)

- Scan Axis Usage
- Paper Axis Usage
- Service Station Usage
- Spittoon Usage
- Pinch Lift Usage
- Cutter usage
- Ink Usage



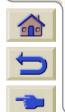
-

Introduction	Media & Ink	Solutions	Front Panel	Printer Options	Other		Index	
Page Format		je Size in the t Panel	Image Appearance	Print Manag	gement	Printe	er Configuration	~

Front Panel Setup

You can configure the following parameters for the front panel:

- <u>Menu and Message Language</u>
- <u>Alert Buzzer</u>
- <u>Screen Contrast</u>









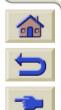
Menu and Message Language

The following languages can be used for all menus and messages shown on the front panel of your **HP DesignJet 500PS** printer:

- English
- German
- Spanish
- Catalan
- French
- Italian
- Japanese
- Portuguese
- Korean
- Simplified Chinese
- Traditional Chinese

To change the language:

- 1. Select the Front Panel > Language option from the Set-up menu.
- 2. To scroll to the language you require and press Enter.







Introduction	Media & Ink	Solutions	Front Panel	Printer Options	Other		Index	
Page Format		je Size in the t Panel	Image Appearance	Print Manag	gement	Print	er Configuration	~

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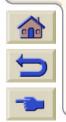
Alert Buzzer

Your HP DesignJet 500PS printer is equipped with an alert buzzer that is used to warn you when:

- A task has completed.
- An error has been detected.
- You change a parameter from the front panel.

To enable or disable the buzzer:

- 1. Select the Front Panel > Buzzer option from the Set-up menu.
- 2. Highlight Buzzer = On or Buzzer = Off (whichever is displayed) and press Enter.
- 3. Scroll to the option you require, On or Off, and press Enter.





1	Introduction	Media & Ink	Solutions	Front Panel	Printer Options	Other		Index	
	Page Format		ge Size in the t Panel	Image Appearance	Print Manag	gement	Printe	er Configuration	

Screen Contrast

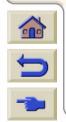
You can adjust the screen contrast of the front panel to best suit the ambient lighting conditions at your location. The contrast can be varied from 0% to 100% in 5% increments. The default setting is 50% and is suitable for most situations.

To adjust the screen contrast:

1. Select the Front Panel > Contrast option from the Set-up menu.

NOTE: Any value below 20% shows a blank screen and any value over 80% shows a black screen.

2. Scroll to the required value and press Enter.







Altitude Setting

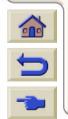
Your **HP DesignJet 500PS** printer contains a vacuum pump which is used to hold the media onto the platen. The altitude of your location effects the efficiency of this pump so you need to specify the altitude to ensure the pump operates correctly.

To set the altitude:

- 1. Select the *Altitude* option from the Set-up menu.
- 2. Scroll to the required value (0 1000m, 1000m to 2000m, or > 2000m) and press Enter.

The following table shows the corresponding altitude values in feet.

Meters	Feet
0 -1000	0 - 3300
1000 - 2000	3300 - 6600
> 2000	>6600







Graphics Language and Networks

For System Administrators

If you are using the printer with a network spooler, consider having your system administrator modify the spooler to insert automatically the <u>PJL</u> language-switching commands at the beginning and end of each file. This allows the printer to switch automatically into the correct graphics language for your current print and returns the printer to the front-panel <u>graphics language</u> setting for subsequent prints.

For information on ordering PJL reference information, see Ordering Accessories.







Setting up the I/O Card

Network

With a network interface (such as the HP JetDirect Print Server), refer to your network interface documentation for advice on any front-panel configuration. The front-panel menu is I/O Setup > Card Set-up.

To Change the I/O Time-out Setting

Some software applications do not write a file terminator at the end of a file. In this case, the printer does not know when the file is complete and will wait for more data until the end of the "I/O Time-out" period. By default, this period is 30 minutes. You can change the time-out setting in the front-panel menu (Set-Up > I/O setup > I/O Timeout) to as little as 30 seconds.







Controlling the Cutter

With roll media loaded, when any print job you have send to the printer completes, the roll is automatically cut and the print job falls into the media bin. There may be a delay before the roll is cut due to the drying time you have programmed or the printer has automatically selected.

In some situations you may not wish to cut the roll after each print job. Use the following procedure to control the cutter. The front panel menu selections are:

	Select (using the 💂 keys)	Then Press:
1.	Paper menu	Enter
2.	Cutter	Enter
3.	ON or OFF	Enter







Upgrading Your Printer

System Software

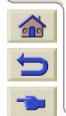
"System Software" is the name given to a type of software which runs the functions in your printer.

System Software downloading

From time to time there will be system software upgrades available from Hewlett-Packard. System software upgrades increase your printers functionality and enhances the features that your printer already possesses. System software can be downloaded from the Internet.

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For the latest upgrades, go to <u>http//www.hp.com/go/designjet</u>. Follow the on-screen directions.







Color Settings

Your printer can emulate the color behavior of offset printing presses, allowing you to use your printer for color proofing. To get accurate colors for your proof, select the color emulation mode that matches your offset printing standards from the lnk menu Color settings option. The selections are:

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Color/monochrome

Refer to Set-up MenuPrinting Images in Grayscale for further details

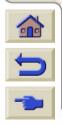
- Color—the printer prints in color
- Grayscale—the printer prints the color image in grey shades.
- True black—the printer prints the color image in grey shades using black ink only.

<u>RGB</u>

- Native/Device RGB—No ink emulation
- sRGB—Standard RGB

Rendering Intent

- Perceptual
- Saturation
- Colorimetric





	Introduction	Media & Ink	Solutions	Front Panel	Printer Options	Other		Index	
Page Format			je Size in the t Panel	Image Appearance	Print Manag	gement	Print	er Configuration	~

Logs

Your **HP DesignJet 500PS** printer keeps a log for the printheads and an error log. These logs are normally used by service engineers.

Printhead Log

The printhead log contains a list of the last five printheads of each color along with information about the usage of the printhead.

Error Log

Lists the last errors detected the printer has detected along with the date the error occurred and a unique error code for the type of error detected.





Introduction Medi	a & Ink Solutions	Front Panel	Printer Options	Other	Index	
Care of the Printer	Installing Expansion Cards	Specifications	Ordering Accessories		Glossary	

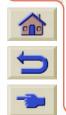
Other

The Other tab provides miscellaneous procedures and information that may be required to ensure your printer remains in a fully operational condition at all times.

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The Other tab contains these sections:

- <u>Care of the Printer</u>
- Installing Expansion Cards
- <u>Specifications</u>
- Ordering Accessories
- <u>Glossary</u>









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Care of the Printer

This section contains information on general maintenance of the printer.

- <u>Cleaning the Printer</u> Instructions for cleaning the exterior of your printer.
- <u>Storing and Moving Your Printer</u> Instructions on how to move and store your printer.







Cleaning the Printer

- WARNING: To avoid an electric shock, make sure that the printer is switched OFF and disconnected from the mains supply before you clean it. Do not let water get inside the printer.
- **CAUTION:** Do not use abrasive cleaners on the printer.
- NOTE: Any maintenance or repairs beyond those described in this chapter should be done by a qualified service technician.

Cleaning the Printer Exterior

Clean the outside of the printer as required with a damp sponge or a soft cloth and a mild household cleaner such as non-abrasive liquid soap.





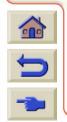


Storing and Moving Your Printer

If you need to move your printer or store it for an extended period of time, you need to prepare your printer properly to avoid possible damage to the printer. To prepare your printer, follow the instructions given below:

CAUTION: It is important that you do not remove the Ink Cartridges and Printheads before moving or storing the printer.

- 1. Switch the power off at the On/Off power switch on the front of the printer.
- 2. Disconnect any cables connected to the printer; parallel interface, LAN connection.
- 3. Repack the printer in its original packaging. Refer to Assembly/Repacking Instructions available on the HP web-site (<u>www.hp.com/go/designjet</u>) for details.
- 4. If you have to move your printer you will need the original packaging. If necessary you can order a kit of the packaging materials. Contact HP support and they will supply it to you. If necessary they will repackage the printer for you.







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Installing Expansion Cards

The following options are available for your HP DesignJet 500PS printer:

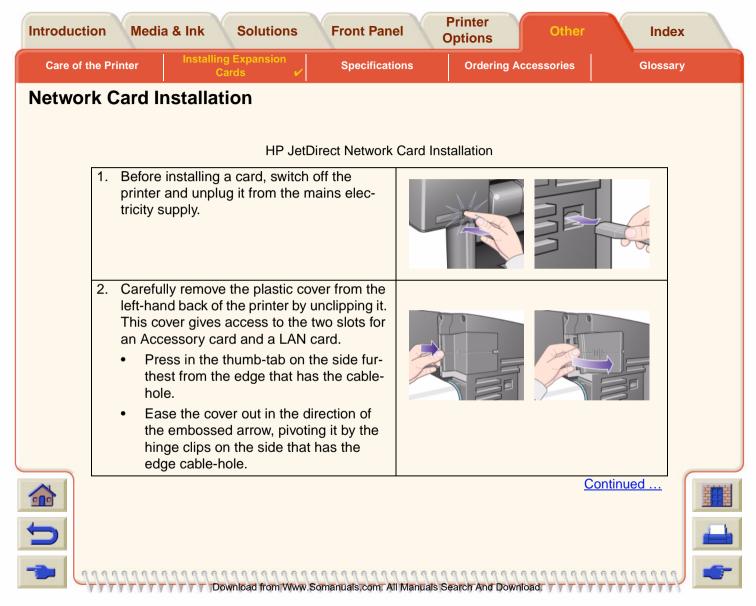
Network Card Installation







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Introductio	on Med	ia & Ink	Solutions	Front Panel	Printe Option	Othor	Ind	ex
Care of the	e Printer		g Expansion ards 🗸	Specificatior	is Orde	ering Accessories	Gloss	ary
			HP JetDirect N	etwork Card In	stallation (Cor	ntinued)		
	compa card c You ca we red left (ne Acces cable	artment the or an Access an use eithe commend p earer to the sory card o	er slot for either outting a LAN ca front of the prin on the right. In t AN card can eas	s for a LAN r card, but ard on the hter) and an his way the				
	card), appro	remove the priate slot b s. You can	ard (or an Acce e metal cover fr by unscrewing in use a screwdriv	om the ts two				
	into pl and be	ace, using i	nserted the car its two screws (e card). Again, f wdriver or manu	(at the top this can be				
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Introducti	on Medi	a & Ink	Solutions	Front Panel	Printer Options	Other	Inde	ex
Care of t	he Printer		g Expansion ards 🖌 🖌	Specifications	Ordering A	Accessories	Glossa	ry
			HP JetDirect N	etwork Card Installa	ation (Continue	d)		
		pushed in	able into the LA to place and cli					
	clippin Pu ha Sw site oth the pa ca Ta ca sp	g it back in at the two h s the edge vivel the co e to the em- ner two tab eir slots. Er sses corre ble-hole (s ke care to ble so it do indle or rol	inge clips on the cable-hole into over in the direct boossed arrow is on the oppositions on the opposition of the the lactly through the hown by the ye carefully route bes not interferent.	tion oppo- and clip the ite side into AN cable e edge llow arrow). the LAN e with the				
5		ou LAN, se <u>-</u>	e <u>Setting up th</u>	hysical installation <u>e I/O Card</u> . omanuals.com. All Manua	11111111	9999999999		



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HP-GL2 Accessory Card Installation

Not available for your printer model.





Introduction Medi	a & Ink Solutions	Eront Danol	Printer Other	Index
Care of the Printer	Installing Expansion Cards	Specifications 🗸	Ordering Accessories	Glossary
Specificatio	ons			
<u>Functional Spec</u>	cifications			
<u>Memory Specif</u>	ications			
Printer Power S	pecifications			
<u>Ecological Spec</u>	<u>cifications</u>			
Enviromental S	pecifications			
<u>Acoustic Specif</u>	<u>ications</u>			
<u>Connection Spe</u>	ecifications			

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ntroduction Media	& Ink Solutio	ns Front Par	Printer Options	Other	Index	
Care of the Printer	Installing Expansior Cards	Specificati	ions 🖌 Orderin	ng Accessories	Glossary	
unctional Spec	cifications					
	HP Desi	ignJet 500PS Fu	nctional Specificat	ions		
Functional Sp	ecifications					
	Four colors: cyar	n, magenta, yellov	w and black.			
HP Ink	Printheads:	600 dpi,	36 kHz (Cyan, 36 kHz (Black)	36 kHz (Cyan, Magenta, Yellow). 36 kHz (Black).		
Supplies Supplies			Cyan Magenta			
	Ink Cartridges co	Ink Cartridges contents:		69 ml		
	Width (carriage	axis)	Length (pape	er axis)		
Paper sizes	Minimum	Maximum	Minimum	Maximum		
Roll - D/A1 size printer	•	625 mm 25 inches	1000 mm	100 mm 4 inches		
Roll - A0+/ E+ size printer	140 mm	1071.8 mm 42.2 inches	40 inches	roll external diameter		
Sheet -D/ A1 size printer	5.5 inches	nches 625 mm 25 inches		140 mm 1897 mm		
Sheet -A0+/ E+ size printer		1071.8 mm 42.2 inches	5.5 inches	74.7 inches	<u>H</u>	
					More	





Introdu	uction Media	a & Ink Solutions	Eront Donol	Printer Options Other	Index	
Care	of the Printer	Installing Expansion Cards	Specifications 🖌	Ordering Accessories	Glossary	
		HP DesignJet 500I	PS Functional Specific	cations (Continued)		
	Functional Sp	pecifications				
	HP Supported	d Media ^a				
	HP Bright Whit	te Inkjet Paper (Bond)				
	HP Vellum					
	HP Natural Tra	cing Paper				
	HP Coated Par	per				
	HP Heavyweig	ht Coated Paper				
	HP Matte film					
	HP High-Gloss	•				
	HP Semi-Gloss					
	HP Paper-Base	ed Semi-Gloss				
	HP Clear film					
	HP Translucen	t bond				
	HP Studio Can	ivas				
	HP Satin Poste	er Paper				
	HP Banners wi	•				
	HP Colorfast A	dhesive Vinyl				
	Previous				<u>More</u>	
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Introduction Media	a & Ink Solution	s Front Panel	Printer Options	Other	Index			
Care of the Printer	Installing Expansion Cards	Specifications	Ordering Act	cessories	Glossary			
	HP DesignJet 500PS Functional Specifications (Continued)							
Functional Sp	pecifications							
Resolution	Print Mode		Line drawing/text	Image				
	Fast	Render	300x300dpi	150x150 dpi				
		Halftone	600x300 dpi	600x300 dpi				
	Normal	Render	600x600 dpi	300x300 dpi				
		Halftone	600x600 dpi	600x300 dpi				
	Best (default)	Render	600x600 dpi	600x600 dpi				
		Halftone	600x600 dpi	600x600 dpi				
	Best	Render	600x600 dpi	600x600 dpi				
	(maximum detail)	Halftone	1200x600 dpi	1200x600 dpi				
Drovious					Moro			

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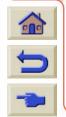
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<u>More ...</u>

9999



Introduction Medi	a & Ink Solutions	Front Panel	Printer Options	Other	Index				
Care of the Printer	Installing Expansion Cards	Specifications	Ordering Acc	cessories	Glossary				
	HP DesignJet 500PS Functional Specifications (Continued)								
Functional S	pecifications								
Margins	Roll (normal)	Sheet (normal)	Roll (small)	Sheet (small)				
	Side Margins 5 mm Leading Edge Marg Trailing Edge Margi	gin 17 mm							
Accuracy	0.2% of the specifie HP special polyeste	-	23º (73ºF), 50-60%	6 Relative Hur	midity, on				
Previous	1								

a. From time to time, new paper types may become available. For up-to-date information, please contact your HP dealer or our web site www.designjet-online.hp.com.

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Introduction	Media &	& Ink	Solutions	Front Panel		rinter ptions	Other	Index	
Care of the Pri	nter	•	Expansion rds	Specifications	~	Ordering A	ccessories	Glossary	

Physical Specifications

Physical Specifications						
Туре	Weight	Width	Depth	Height		
D/A1 size printer	38.5 kg	1253 mm	470 mm	349 mm		
	85 lb	49 inches	19 inches	14 inches		
A0+/E+ size	45 kg	1690 mm	674 mm	1100 mm		
printer	99 lb	67 inches	27 inches	43 inches		

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Introduction Media	a & Ink Solutions	Front Panel	Printer Options	Other	Index
Care of the Printer	Installing Expansion Cards	Specifications	Ordering A	ccessories	Glossary
Memory Specif	ications				

Memory Specifications	
Internal RAM	16 MB
Can be upgraded to:	96MB or 160MB

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Introduction M	ledia & Ink	Solutions	Front Panel		Printer ptions	Other	Index	
Care of the Printer		Expansion ards	Specifications	~	Ordering A	ccessories	Glossary	

Printer Power Specifications

Printer Power Specifications				
Source 100-240 V AC ±10% auto-ranging				
Frequency 50/60 Hz				
Current	3 amp maximum			
Consumption	150 watts maximum			

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6





Introduction	Media & I	nk Solution	s Front Panel		Printer Options	Other	Index	
Care of the Pri	nter	nstalling Expansion Cards	Specifications	~	Ordering A	ccessories	Glossary	

Ecological Specifications

Ecological Specif	Ecological Specifications							
Energy efficiency	Compliant with Energy Star Program EPA (US).							
Manufacturing process	Free of ozone-depleting chemicals (Montreal Protocol).							
Plastics	Free of brominated flame retardants (PBB and PBDE). All housing parts made of the same material: ABS. Parts marked according to ISO 11469 standard.							
Metals	Enclosures made of electro-galvanized steel sheet.							
Packaging	Cardboard (non-chlorine-bleached) and foam are 100% recyclable. Inks used for printing do not contain heavy metals.							
User Documentation	Majority provided in Adobe Acrobat PDF format on CD-ROM							
Batteries	Not used.							
Recyclablility	Modular construction, screws easy to find and disassembly done using universal tools.							



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Introduction Media	a & Ink Solutions	Front Panel		rinter otions	Other	Index	
Care of the Printer	Installing Expansion Cards	Specifications	~	Ordering Access	ories	Glossary	
Enviromental S	pecifications						
Environmental Specifications							
Operating Ra	anges Printing:	15° 709		35°C (59° F to 9	5° F) RH 2	20% to	

Operating Ranges	Printing:	15°C to 35°C (59° F to 95° F) RH 20% to 70%.
	Optimal print quality for HP glossy media:	15°C to 30°C (59° F to 86° F) RH 20% to 80%.
	Optimal print quality for other HP media:	15°C to 35°C (59° F to 95° F) RH 20% to 70%.
Non Operating	Printer:	-40°C to 70°C (-40° F to 158° F)
Ranges	Packed consumable items and system:	-40°C to 60°C (-40° F to 140° F)

NOTE: At altitudes greater then 3000m the printer may have operational problems.





	Introduction	Media & Ink	Solutions	Front Panel	Printer Options	Other	Index
ſ	Care of the Prin	ter	g Expansion Cards	Specifications	✓ Ordering	Accessories	Glossary

Acoustic Specifications

Acoustic Specifications	
Operating sound pressure	54 dB (From a one-meter bystander position)
Idle sound pressure	<30dB (A) (From a one-meter bystander position)
Operating sound power	6.5 Bels (A)
Idle sound power	<4.3 Bels (A)







Introduction Me	edia & Ink Solutions	Front Panel	Printer Options	Other	Index			
Care of the Printer	Installing Expansion Cards	Specifications	✓ Ordering A	ccessories	Glossary			
Connection Specifications								

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- <u>Cable Specification</u>
- <u>Recommended Cables</u>







Cable Specification

The connector on the printer is 36-pin female connector. Most existing parallel cables support IEEE-1284 compatible communication, but for use with this printer, the cable must meet the specifications in the following table:

Parallel (<u>IEEE-1284</u> compatible/ <u>Centronics</u>) Interface								
Pin	Wire/Signal Name	Source						
1	Strobe	computer						
29	D0 D7 (data lines)	both						
10	Ack	printer						
11	Busy	printer						
12	PError	printer						
13	Select (SelectOut)	printer						
14	AutoFd	computer						
16	GND							
19 30	GND							
31	Init	computer						
32	Fault	printer						
36	SelectIn	computer						





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Introduction	Medi	a & Ink	Solutions	Front Panel	-	Printer ptions	Other	Index	
Care of the Printer In			JExpansion ards	Specifications	~	Ordering A	ccessories	Glossary	

Recommended Cables

The following cable is recommended for optimum performance and electromagnetic compatibility:

Recommended Cable									
Interface type (Computer)	HP part number	Cable length	Connector type at computer end of cable						
IEEE compatible/Centronics Interface (All)	C2951A	3.0 m	25-pin male						
USB	C2392A	5.0 m	USB plug						

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Ordering Accessories

You can order supplies and accessories in any of the following ways:

- Call your local authorized HP dealer.
- Contact your local HP Sales and Support office.
- Refer to the Hewlett-Packard Support / Services booklet that was supplied with your printer.
 - <u>Documentation</u>
 - Hardware
 - <u>Consumable Items</u>





Int	roduction	Media	a & Ink	Solutions	X	Front Panel	Printer Options	Other	Index	
	Care of the Printer			Expansion ords		Specifications	Ordering Ac	cessories 🖌	Glossary	

Documentation

Language	Pocket Guide	User's Reference Guide	Unpacking and Assembly poster					
	HP Part Numbers							
Chinese	C7769-90020	C7769-90131	C7769-90040					
Czech	C7769-90021	Not available	Not available					
English	C7769-90011	C7769-90131	C7769-90031					
French	C7769-90015	C7769-90135	C7769-90035					
German	C7769-90014	C7769-90134	C7769-90034					
Greek	C7769-90022	Not available	Not available					
Hungarian	C7769-90023	Not available	Not available					
Italian	C7769-90017	C7769-90137	C7769-90037					
Japanese	C7769-90018	C7769-90138	C7769-90038					
Korean	C7769-90012	C7769-90132	C7769-90032					
Lithuanian	C7769-90029	Not available	Not available					
Polish	C7769-90024	Not available	Not available					
Portuguese	C7769-90019	C7769-90139	C7769-90039					
Russian	C7769-90025	Not available	Not available					
Spanish	C7769-90016	C7769-90136	C7769-90036					







Introductio	n Media & Ink	Solutions Front P	anel Printer Options	Other	Index
Care of the	e Printer Installing I Car	Specifi	cations Ordering A	ccessories 🖌 G	lossary
	Language	Pocket Guide	User's Reference Guide	Unpacking and Assembly poster	
		HP Part Numbers			
	Slovakian	C7769-90030	Not available	Not available	
	Taiwanese	C7769-90013	C7769-90013	C7769-90033	
	Thai	C7769-90026	Not available	Not available	
	Turkish	C7769-90027	Not available	Not available	
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Previous



7



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			ptions	
are of the Pri	inter Installing Expansion Cards	Specifications	Ordering Accessories 🖌	Glossary
dware				
	Item		HP Part Number	
	Memory Modules	64 MB	C2387A	
		128 MB	C2388A	
	All memory expansion modules a 3.3V	re: SODIMM 168pin x	64 EDO 50 nanoseconds,	
	JetDirect EIO Network Cards	10Base-T	J3110A	
		10 Base2, 10-T	J3111A	
		LocalTalk	J3112A	
		Token Ring 10/100Base-TX	J4169A	
	HP-GL/2 Accessory Card (with	16MB)	C7772A	
	Spindle	610 mm - 24 inch	C2388A	
		1067 mm - 42 inch	C2389A	
	Stand 610 mm - 24 inch	FL for 500 series	C7782A	
		GR for 800 series	C7781A	

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Introduction Medi	a & Ink Soluti	ons Fr	ont Danol	Printer Oth	er Index
Care of the Printer	Installing Expansi Cards	on s	Specifications	Ordering Accessories	Glossary
Consumable Ite	ems				
	Item	Color	HP Supply No.	HP Part Number	
	Ink	Black	10	C4844A	
	Cartridges	Cyan		C4911A	
		Yellow	82	C4913A	
		Magenta		C4912A	
	Printheads	Black		C4810A	

C4811A

C4813A

C4812A

To achieve the best performance from your printer, we recommend you only use genuine Hewlett-Packard accessories and supplies, whose reliability and performance have been thoroughly tested to give trouble-free performance.

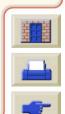
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Cyan

Yellow

Magenta





Introduc	tion Media 8	Ink Solutions	Front Panel	Printer Options Other	Index	
Care of	the Printer	Installing Expansion Cards	Specifications	Ordering Accessories	Glossary	
Glos	sary					
	Term		Meani	ng		
	ANSI paper	An American stand	lard paper size; e.g. D	, E.		
	Architectural paper	The Architectural p	aper sizing system.			
	application	The software you ι	ise to create your drav	vings.		
	Centronics	A standard for the	parallel interface betw	een computer and device	э.	
	clipping	Losing part of a dra	awing at the edges.			
	СМР	businesses by refe	rencing third-party pri	os HP customers grow th nting material choices to and printing solutions.		
	СМҮК	Cyan, magenta, ye also a standard co		plors of the printer's four	inks, and	
	Coated paper	Paper coated on or	ne side for inkjet printi	ng.		
	default	A value or conditio specified.	n that is assumed if no	o other value or condition	is	
	device	An external item co DesignJet is a devi	•	iter: printer, tape drive, et	c. Your HP	
	dpi	Dots per inch, a m	easure of print resoluti	on.		<u> 국내</u> 물
D			Fo	r More Terms, click on the N	ext Page Icon	





roduct		& Ink Solutions	Front Panel	Printer Options Other	Index		
Care of	the Printer	Cards	Specifications	Ordering Accessories	Glossary		
	Term		Mean	ing			
	drivers	Software that contr	ols the communication	on between a computer a	ind a device.		
	front panel	The control panel of	on the front right of th	e printer.			
	front panel menus	The structure of op	tions in the front-pan	el display.			
	graphics language	A programming lan	iguage telling a print	device how to output gra	phic data.		
	grayscale	Shades of gray to r	epresent colors.				
	high-gloss photo	A glossy, opaque photographic paper.					
	HP-GL/2 One of Hewlett-Packard's standard graphics languages for plotters and printers. Produces vector data.				rs and		
	I/O Input/ output	The transmission of	f data between a cor	nputer and a device.			
	IEEE-1284	(IEEE) as the Stan	,	ctrical and Electronics E od for a Bi-directional Par iters	0		
	ink cartridge	The part of the HP Ink Supplies which contains all the ink used in the printer. They are installed into the printer on the right side.					
1	inked area	The smallest rectar maintaining its rela		the content of the drawin	ıg, while		
>			F	or More Terms, click on the N	Vext Page Icon		

Introduc	tion Media	& Ink Solutions	Front Panel	Printer Options Other	Index	
Care of	f the Printer	Installing Expansion Cards	Specifications	Ordering Accessories	Glossary	V
	Term		Meani	ng		
	ISO paper	An international sta	andard paper size; e.g	. A1, A2, etc.		
	JIS	A Japanese standa	ard paper size.			
	LAN	Local area network	κ.			
	long-axis printing	Printing a page wh	en the length is longe	r than a standard page si	ze.	
	margin The space around the page added by the printer to separate one page from another and to avoid printing right to the edge of the paper.					
	Nesting	Placing two or mor	e pages side-by-side o	on roll paper to avoid was	ste.	
	nozzles Located underneath the printhead. The nozzles direct the ink onto th			o the page.		
	palette	A set of logical pe	ns defined by color an	d width.		
	PJL Printer Job Language. A programming language that controls jobs going to a printer.					
	parallel interface	A type of interface serial interface.	between computer an	d device. Generally faste	r than a	
	PANTONE		ATCHING SYSTEM® is the graphics art indust	s an international standar ry.	d for color	
	pen	Even though the p attributes of a pen.		pens, the lines it draws m	atch the	H H
			Fo	r More Terms, click on the Ne	ext Page Icon	

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oducti are of t	ion Media a	Installing Expansion	Front Panel Specifications	Printer Options Ordering Access	Other	Index Glossary
	Term	Cards	Meani			
-	platen	The exterior part or printer.	f the printer on which t	he paper rests be	fore going into	the
	printhead	The printhead is in prints the ink onto	stalled into the carriac the paper.	ge assembly. It is t	the part which	
	printing area	Page size minus m	nargins.			
	PostScript	•	s a computer language ments such as text, g put device.		•••	
	queueing	Placing each print other prints.	received by the device	e into memory for	processing wit	h
	raster		ing an image, in terms Is more memory than		an lines. Raste	r
	Rendering Intent	Rendering intent is Format for Color P	a concept defined by rofiles".	ICC Spec ICC.1:	1998-09, "File	
		to be used during t applies specifically sequence. Typicall	tion: "Rendering inten the evaluation of this p to that profile in the s y, the user or applicati time or embedding tim	profile in a sequen equence and not on will set the ren	ice of profiles. I to the entire	
	RGB	Red, green and blu	ue. A standard color m	odel.		
		-	Fo	or More Terms, click	on the Next Page	lcon

Introduction Media	a & Ink Solutions	Front Panel	Printer Options Other	Index		
Care of the Printer	Installing Expansion Cards	Specifications	Ordering Accessories	Glossary	~	
Term Meaning						
RIP	Raster Image Processor.					
RTL	Raster Transfer Language is one of Hewlett-Packard's standard graphics languages for plotters and printers. Produces raster data.					

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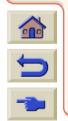
For More Terms, click on the Next Page Icon





Introduction Medi	a & Ink Solutions	Front Panel	Printer Options Other	Index			
Care of the Printer	Installing Expansion Cards	Specifications	Ordering Accessories	Glossary	~		
Term		Meani	ng				
spindle	The rod which hold	The rod which holds the roll of paper.					
paper-axis	The vertical axis, a feed moves.	The vertical axis, as you look at the printer from the front in which the paper feed moves.					
scan-axis	The horizontal axis carriage moves.	The horizontal axis, as you look at the printer from the front in which the print carriage moves.					
service station	The part of the printer which services the printheads. It keeps the printheads clean and stops them from drying out.						
USB	Universal Serial Bu	IS.					

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Printer

R S W Β С D E G Μ Ν 0 0 X

Index

Α

acoustic specifications Action Keys 📭 Advanced Calibration 🖙 Aligning Printhead ANSI Paper 🖙 Architectural Paper 🖙 В

- Back Key 🖙 Banding 🖙 Best 🖙 Print Resolution 🖙 Blurred Lines 🖙 bright white inkjet paper 🖙 С
- cable specifications 🖙 cables interface 🖙 parallel 🖙 Calibration 🖙 Cancel Kev 📭 Cancel Print 🖙 canvas 📭



Cancelling Drying Time cancelling the drying time 📼 choosing media 📭

clear film 🖙 Clearing Media Jam 🖙 coated paper 🖙 Color Accuracy Configuration 🖙 Additional Information 🖙 Settings 🖙 Media 📭 Color Alignment Problems 🖙 Color Consistency Problems 🖙 color settings 🖙 Communications Problems Component Identification 🖙 connection secifications Correcting the Printer Configuration Cutter Replacement 🖙 D

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Display Screen 📭 Dots per inch Fast 🖙 Down Key 🖙 drivers 📭 Drying Time 🔊 Cancelling 📭 Procedure 🖙 Settings Automatic 🖙 Manual 🖙



A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

None 📼 Ink cartridges 📭 Typical 🖙 ink cartridges 📭 Ε Printheads 🔊 printheads 🖙 ecological specifications Enter Key 📭 environmental specifications 🖙 I/O time-out setting F changing 📭 Identifying Components 🖙 Fast Image Appearance 🖙 Print Resolution 🖙 Image Error Finding the Source of a Problem 🖙 Image is Clipped 🖙 Form Feed & Cut Key 📼 Long-Axis Image is Clipped Front Panel Output Contains Only a Partial Print 🖙 Action Keys 🖙 Image is Clipped 🖙 Display Screen 📭 Image Quality Introduction 🖙 Problems 🖙 Menu Structure 🖙 Incomplete Lines Problems Navigation Keys 🖙 Information functional specifications Roll Media 📭 G Sheet Media 📭 graphics language and networks Image and networks Ink 🖙 н System Handling Media 🖙 Precautions 🖙 heavy coated paper 🖙 Ink Bleeds 🖙 high-gloss photo 100 Ink Cartridge HP Ink Supplies 🖙 Problem Inserting 🖙 HP No 10 🖙 Replacement 📭 HP No 11 🖙 Statistics 🔊 HP No 82 🖙





Introduction

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A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Ink cartridges HP Ink Supplies 🖙 ink cartridges HP Ink Supplies 🖙 ink emulation mode selecting 🖙 Ink Menu 📭 Ink Supplies. See HP Ink Supplies Ink Supply Problems Ink System Cartridge Replacement 🖙 Statistics 🖙 Drving Time 📭 Automatic 🖙 Manual 🖙 None 📭 Printhead Alignment 📼 Replacement 🖙 Statistics 🖙 Inked Area 📭 inked area 📭 Installing Roll Media 📭 interface cables 🖙 interfaces Fast Ethernet 10/100 base TX III parallel 📼

USB 📭 ISO Paper 🖙 J Job Management Menu 📼 Κ Keys Action 🖙 Cancel 🖙 Form Feed & Cut 🖙 Navigation 🖙 Back 📭 Down 📭 Enter 📭 Menu 📭 Up 📭 Loading Roll Media 📭 Sheet Media 📭 Loading Roll Media Problems Loading Sheet Media Problems 📼 Long-Axis Image is Clipped Μ Margins 🖙 margins 📼 margins specifications Marks or Scratches on Glossy Paper I matte film 📭



Printer

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Media Cutter 📭 Handling 🖙 Media Types Additional Information 🖙 Combinations I Print Quality Selection 🖙 Roll Installing 🖙 Loading 🖙 Removing from Printer 🖙 Removing from Spindle 🖙 Unloading 🖙 Sheet Loading 🖙 Unloading 🖙 Which Edge First 🖙 Which Side Up 🖙 media 📭 choice 📭 media types bright white inkjet paper 📼 canvas 📭 clear film 📭 coated paper 📭 heavy coated paper 🖙 high-gloss photo 100 matte film 📭 natural tracing paper 📼

plain paper 📭 poster paper 🖙 supported 🖙 translucent bond 🖙 vellum 📭 Media Problems Blurred Lines 📭 Clearing Jam 📼 General Rules 🖙 Ink Bleeds 🖙 Loading Roll Media 📭 Sheetl Media 📭 Marks or Scratches Output 📼 Warped Lines 🖙 media sizes specifications 🖙 media types 📭 Memory 🖙 memory 🖙 memory specifications Menu Ink 🖙 Job Mananagement 📼 Paper 📭 Menu Key 📭 Menu Set-up 📭 Menu Structure 📭



Printer

natural tracing paper ** Page Size ** Navigation the Menu System ** page Size ** Navigation paper Example ** miportant points ** Navigation Keys ** paper network interface parallel (Bi-Tronics/Centronics) interface specifications ** networks and graphics language ** parallel (Bi-Tronics/Centronics) interface specifications ** Normal ** paper ** Print Resolution ** poker ** O Obtaining Roll Media Information ** O blaining Roll Media Information ** poster paper ** O he Image Overlays Another on Same Sheet ** power specifications ** Page Description ** Print Cancel ** Page Format Inked Area ** Inked Area ** Size ** Printing Area ** Printing speeds and print quality ** ** Size ** Print data ** Print Resolution ** Printing Area ** Normal ** ** Print Resolution ** ** Printing speeds and print quality ** ** ** ** ** ** ** **		Ν	page size 🖙	
Navigating the Menu System IP page size IP Navigation paper Example IP important points IP Navigation Keys IP paper Menu IP Navigation Keys IP paper Menu IP network interface changing settings IP networks and graphics language IP parallel (Bi-Tronics/Centronics) interface specifications IP Normal IP parallel interface IP Print Resolution IP poster paper IP Obtaining Roll Media Information IP poster paper IP Obtaining Sheet Media Information IP poster paper IP One Image Overlays Another on Same Sheet IP power specifications IP Output Contains Only a Partial Print IP Print Cancel IP Page Description IP Print Quality IP Page Format printing Area IP Inked Area IP Print Resolution Size IP Print Resolution Page format Normal IP Inked Area IP Print Resolution Inked Area IP Print Resolution Print Resolution Print Resolution Print Resolution Print Resolution Print Resolution Print Resolution		natural tracing paper 🖙	Page Size 🖙	
Navigation paper Example Important points Importent points Important points Important points Important points Imp			page size 📨	
Introduction interface parallel (Bi-Tronics/Centronics) interface specifications network interface tions is networks and graphics language is parallel interface is Normal is physical specifications is Print Resolution is physical specifications is O Pocket Guide is O poster paper is O PostScript Upgrade is One Image Overlays Another on Same Sheet is power specifications is Output Contains Only a Partial Print is Print Distorted or Unintelligible is P Page Description is Print Quality is Page format Inked Area is Size is Printing Area is Size is Print Resolution is Page format Normal is Print Resolution is Inked area is margins is Print Resolution Print is set is Print Resolution Best is Page format Normal is Print resolution Inked area is print resolution Print resolution Print is paper format Print Resolution Print Resolution Inked area is Print Paper is Print Resolution		Navigation Example 📾	important points 🖙	
changing settings tions networks and graphics language parallel interface Normal print Resolution Print Resolution poster paper O Obtaining Roll Media Information Obtaining Sheet Media Information poster paper One Image Overlays Another on Same Sheet power specifications Other Sources of Information for Incorrect Printed print cancel Margins P Page Description Printing Area Margins Printing Area Size print apeers Printing Area Print Resolution Normal print resolution Page format print galating Inked area printing Area Normal print resolution Printing Area Print Resolution Page format Normal Inked area Print resolution Printing Area Print Resolution Print Resolution Print Resolution Print Resolution Print Resolution Print Resolution Print Resolution Best Print Resolution Print Resolution <td< td=""><td></td><td>•</td><td>•</td><td></td></td<>		•	•	
print resolution 📽		network interface changing settings networks and graphics language Normal Print Resolution D Obtaining Roll Media Information Obtaining Sheet Media Information Obtaining Sheet Media Information One Image Overlays Another on Same Sheet Other Sources of Information for Incorrect Printe Image Output Contains Only a Partial Print P Page Description Page Format Inked Area Margins Printing Area Size page format	parallel (Bi-Tronics/Centronics) interface specifica- tions approximate the specifications ap	Freehold and a second and as
	0 0			

R E G Μ S В

Architectural Paper 🖙 ISO Paper 📭 Printed Image Incorrect Image is in One Portion of the Printing Area 🖙 One Image Overlays Another on Same Sheet 🖙 Other Sources of Information Image Provide America Ame Print Distorted or Unintelligible Printer does not Print 🖙 Printer Seems Too Slow 🖙 Printhead Alignment 🖙 Problem Inserting 🖙 Problems after replacement 🖙 Replacement 🖙 Statistics 🖙 Printheads HP Ink Supplies 🖙 printheads HP Ink Supplies 🖙 Printing Area 🖙 printing area 📭 Problems Banding 🔤 Color Alignment 🖙 Color Consistency Configuration Correction Finding the Source Image Quality 🖙 Incomplete Lines 🖙

Ink Supply After replacement of Printhead Inserting the Ink Cartridge 🖙 Inserting the Printhead Solutions 🖙 Solving 🔤 Stepped Lines 🖙 Troubleshooting 🖙

R

Removing Roll Media from Printer 🖙 from Spindle 📭 Repacking Poster 🖙 Replacing Cutter 🖙 Ink Cartridge 📭 Printhead 🖙 resolution specifications resolution. See print resolution Roll Media Information 🖙 Installing 🖙 Loading 🔤 Removing from Printer 🖙 Removing from Spindle Unloading 📭



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Set-up Menu 📭 Setup Poster 🖙 Sheet Media Information 🖙 Loading 🖙 Unloading 🖙 Which Edge First 🖙 Which Side Up 🖙 software applications Solutions to Problems 🖙 specifications accuracy 🖙 acoustic 🖙 cables 喀 connection 🖙 ecological 🖙 environmental 📼 functional 🖙 margins 📼 media sizes 📭 memory 🖙 parallel (Bi-Tronics/Centronics) interface 🖙 physical 📼 power 📭 resolution 🖙 Speed and Print Quality Stepped Lines Problems 📼

system software upgrades 🖙 translucent bond 📼 Troubleshooting Procedure 🖙 types of media 🖙 Typical Drying Times 🖙 Typical Printing Times 🖙 U Universal Serial Bus 🖙 Unloading Roll Media 📭 Sheet Media 📭 Up Kev 📭 upgrading system software 📼 USB 📭 user interface 📭 User's Reference Guide 🖙 animation 📭 buttons 📭 how to use IS navigation 🖙 back button 📭 exit button 🖙 home button 🖙 next page button 📭 previous page button 📼

Printer

Options

supported media types 📭





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V

vellum 🖙

W

Warped Lines 🖙 Web Page 🖙







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