

# 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

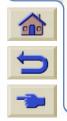
Contains information on how to use this guide. There is an explanation of when you should use it and what each of the navigation buttons do when you click on them.

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.











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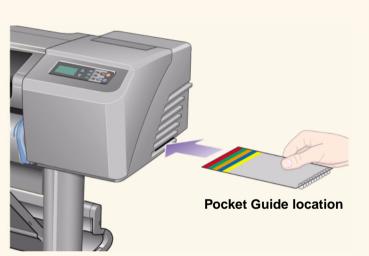
# **Related Information**

- 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).

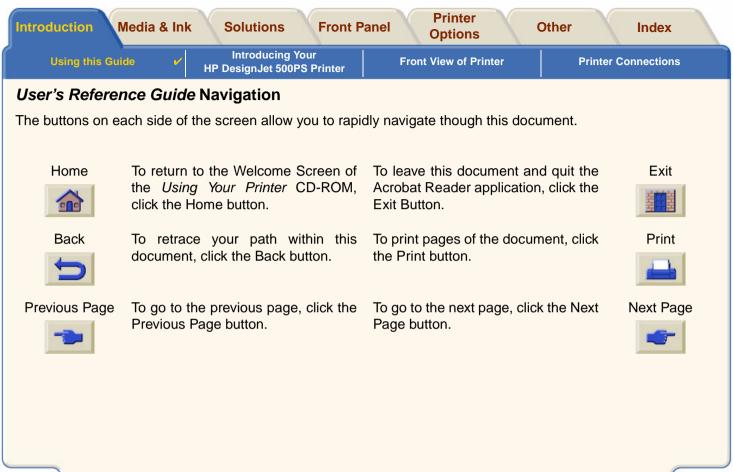
- The *Repacking Poster* Detailed instructions on how to repack you printer its original packing (available from <u>www.hp.com/go/designjet</u>).
- Web Page

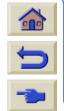
Also you can visit us on our web page: www.hp.com/go/designjet.

















# 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<sup>™</sup> 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.

#### More...





- 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.







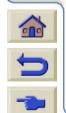
# **HP Ink Supplies**

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.

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>

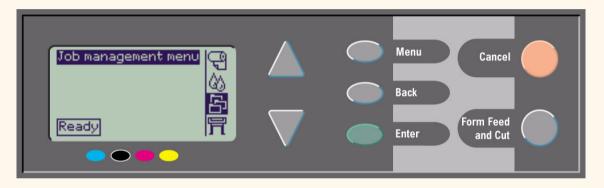






## **User Interface**

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).

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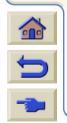
## **Drivers**

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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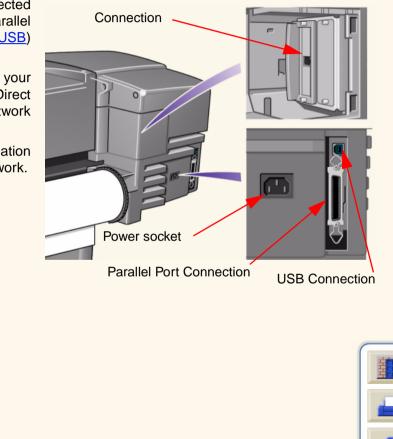
# **Printer Connections**

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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.



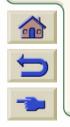


# Media & Ink

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.
- <u>Ink System</u> 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

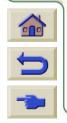
Detailed information concerning the different types of media available for your printer. This includes information on: the types of paper supported, their physical characteristics, quality selection, handling and how to obtain information.

<u>Print Times for a Selected Print Quality</u>

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.

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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.



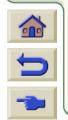


# **Paper Types**

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 <sup>a</sup>	C1861A <sup>a</sup>	
24 lb. (90g/m2) - 150 ft. (45m)	C6035A <sup>b</sup>	C6036A <sup>b</sup>	
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 <sup>a</sup>
26 lb. (98g/m2) - 150 ft. (45m)			C6567B <sup>b</sup>
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	ther Media	Types

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#### Physical Characteristics of Paper and Other Media





/ledia Choice 🖌 🖌	Roll Media S	heet Media	Ink System	Ink	Cartridges	Printheads
	Physical Characte	eristics of Pape	er and Other I	/ledia (Cont	inued)	
	HP Premium Print	ting Material	24 inch 610 mm	36 inch 914 mm	42 inch 1067 mm	
	HP High-Gloss Photo P	aper	C3882A	C3881A		
	6 mil (158g/m2) - 100 ft	. (30m)				
	HP Semi-Gloss Photo F	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. (4	45m)				
	HP Studio Canvas			C6771A		
	20 mil (368g/m2) - 35 ft	. (10m)				
	HP Satin Poster Paper			C7011A		
	5.5 mil (162g/m2) - 100	· · ·				
	HP Banners with Tyvek	®	C6786A	C6787A		
	10 mil (140g/m2) - 50 ft	· · ·				
	HP Colorfast Adhesive	•		C6775A		
	10 mil (140g/m2) - 50 ft	. (15m)				C





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Media Choice	~	Roll Media		Sheet Me	edia	Ink S	ystem	Inł	Cartridges	Printheads	
Additional Information About Deven Trans											

#### **Additional Information About Paper Types**

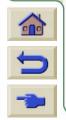
The following HP Premium Printing Material can be used to perform the printhead alignment, see Printhead Alignment.

- 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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Media Choice 🗸	Roll Media	Sheet M	ledia	Ink S	ystem	Inł	< Cartridges	Printheads	

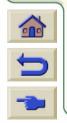
# **Combinations of Media Type and Print Quality Selection**

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

- <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.





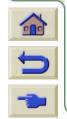


#### CAD Drawings—Mono

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

#### **Recommended Print Quality Setting Typical Media Selection** Usage Drafts Plain Paper Fast or normal **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





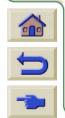
Introduction M	ledia & Ink So	olutions Front F	Panel Printer Options	Other	Index
Media Choice 🗸	Roll Media	Sheet Media	Ink System	Ink Cartridges	Printheads

## 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





Introduction	Media & Ink	Solutions	Front Pan	nel	Printer Options		Other	Index	
Media Choice	V Roll Media	Sheet M	<b>Media</b>	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.

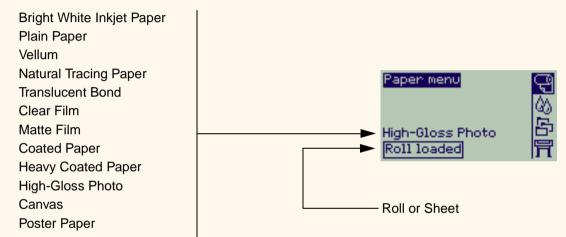






# **Obtaining Roll or Sheet Paper Information**

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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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			









# **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 Width Height Width Height 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 20.7 525 Landscape 20.7 33.6 33.6 854 854 525 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



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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





### **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

Paper size	Orientation of paper in printer	Printable area (width x height) by Image Orientation								
		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



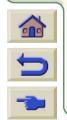


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# **Roll Media**

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>





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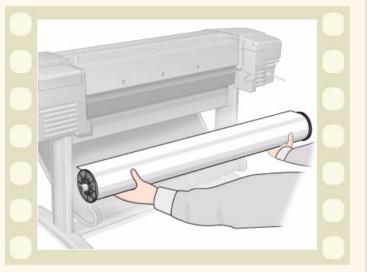
# Installing a New Roll on the Printer

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

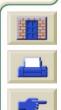
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that you can take the key illustrations to the printer, if it is remote from your computer.











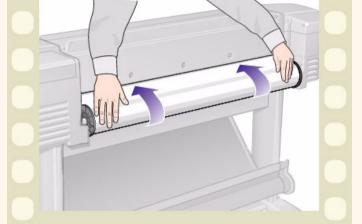
## Loading Roll Media

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 🛔 k	eys) Then Press:
1. Paper	Enter
2. Load Roll	Enter
3. Select Roll Type	Enter
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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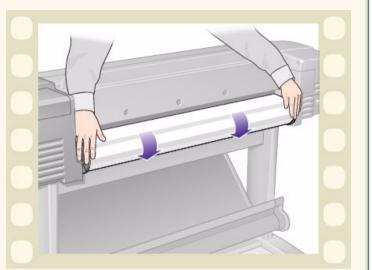
## **Unloading Roll Media**

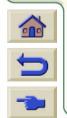
The animation sequence shows how to unload a roll of paper from the printer.

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.









## **Removing Roll Media from the Printer**

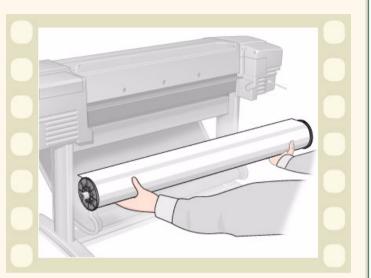
The animation sequence shows how to remove a roll of paper from the printer.

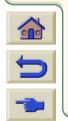
NOTE: You must have unloaded the roll of paper from the printer before you can remove it.

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.









## **Removing Roll Media from the Spindle**

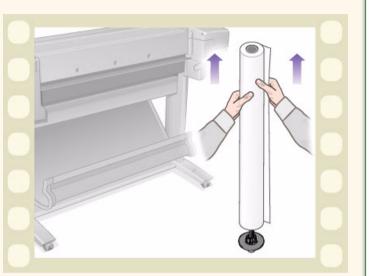
The animation sequence shows how to remove a roll of paper from the roll spindle.

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.

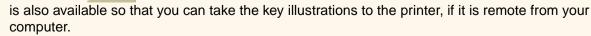
#### **Important Information**

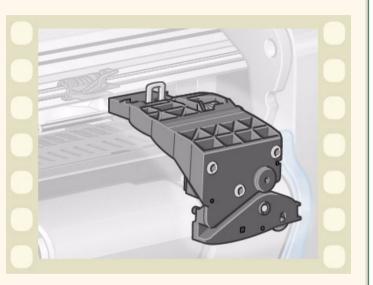
- The cutter unit is attached to the printer by a black cutter holder that runs along the metal guide rail, and is hooked onto the edge of the <u>platen</u> at the front of the printer.
- The cutting wheel is inside the cutter unit.
- Do not remove the cutter holder.
- When inserting the new cutter,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



Click on the icon to run the animation sequence. A <u>printable version</u> of the sequence



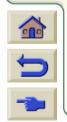


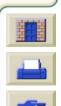


Introduction N	/ledia & Ink	Solutions	Front Par	nol	Printer Options	Othe	er	Index	
Media Choice	Roll Media	Sheet M	Nedia 🗸	Ink Syste	em	Ink Cartridg	es	Printheads	

# **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**



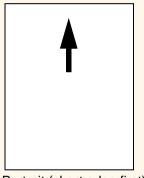




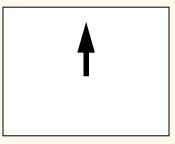
## Which Edge First?

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** 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.







## **Unloading Sheet Media**

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

### Important

• To give the ink <u>time to dry</u> the printer holds the paper for some time.

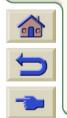
Click on the

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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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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

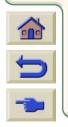
These topics cover the various elements of the Ink System.

- What are HP Ink Supplies?
   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.

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- <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>.



## **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*.







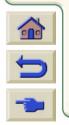
## **Precautions**

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.

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## **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.

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



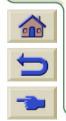


## **Drying Time**

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.

• <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.

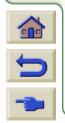
#### Automatic

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.







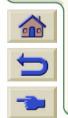
### **Typical Drying Times**

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	60 120		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						

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#### **Drying Times by Paper Types**







#### **Drying Procedure**

The drying procedure operates as follows:

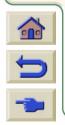
- 1. The printed image emerges from beneath the printer window and a vacuum holds it on the <u>platen</u> of the printer.
- 2. The front panel displays:



- 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.



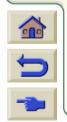




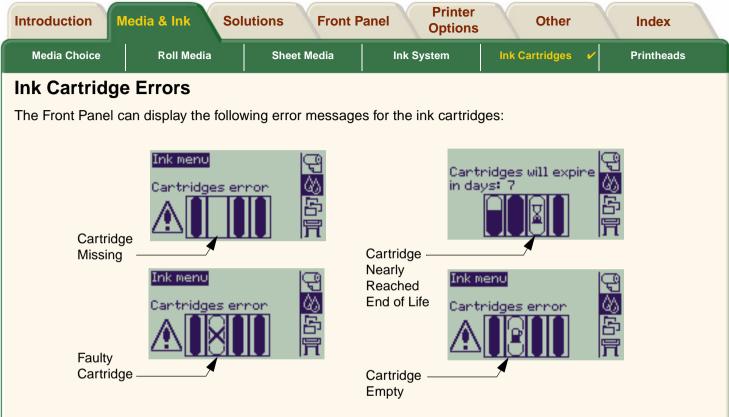
# **Ink Cartridges**

- 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.





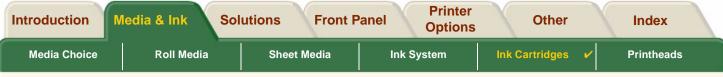


NOTE: If a cartridge has actually passed its expiry date, it will be shown as a faulty cartridge and will have to be replaced.

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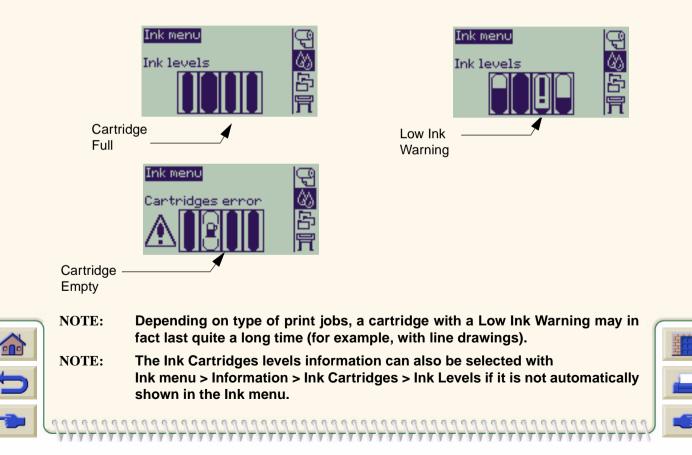


The printer will also display the Ink Cartridge Levels.



## 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.





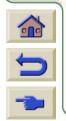


Introduction M	ledia & Ink	Solutions	Front Par	nel	Printer Options		Other	Index	
Media Choice	Roll Media	Sheet M	ledia	Ink S	ystem	Ink	Cartridges	Printheads	~

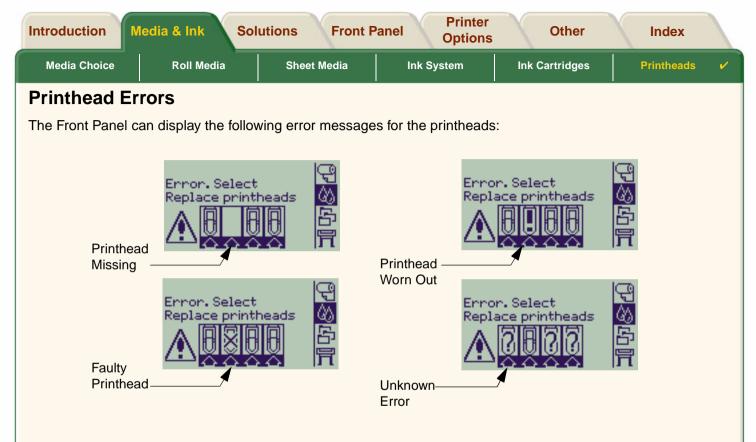
# **Printheads**

<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.



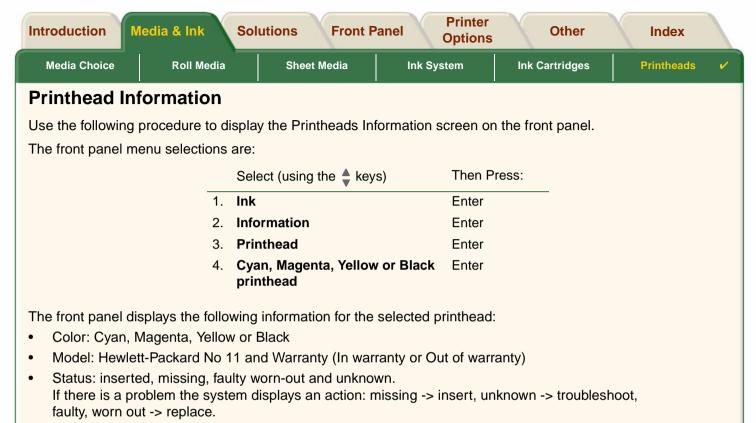






NOTE: An unknown error is displayed when one of the printheads is causing a problem but the system cannot detect which one it is. Refer to <u>Unknown</u> <u>Printhead Error</u> to solve this problem.





- Expiration date.
- Serial Number.
  - 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:

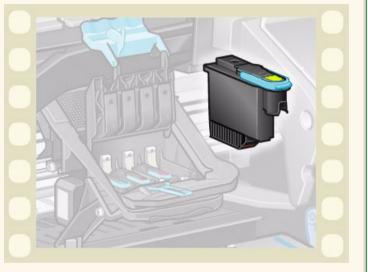
Select (using the 🔷 keys)	Then Press:
1. <b>Ink</b>	Enter
2. Replace Printheads	Enter

Click on the

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icon to run the animation
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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.



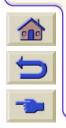


# Solutions

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.



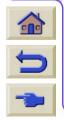


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# **Solving Problems**

- 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>.

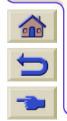


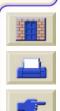




## Finding the Source of Your Problem

- 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.





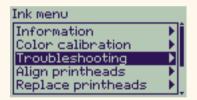
## **Troubleshooting Procedure**

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**

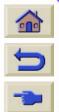
- 1. From the main front-panel menu, select the **Ink menu** (()) and press **Enter**.
- 2. Select Troubleshooting and press Enter.
- The printer first checks to see whether the printheads are aligned. Misalignment of the printheads is a common cause of image quality problems. If they are not aligned,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

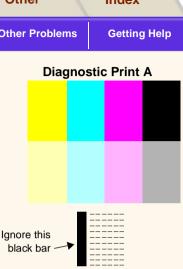
though not necessarily perfectly aligned. The irregularities that are significant extend along the whole of the length of the lines. Shorter irregularities, arranged in columns, can be ignored at this stage.

- 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).

- 5
- 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.



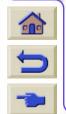






If none of the patterns or blocks in the two **Diagnostic Prints** shows any problem, it could be that your image quality problem is caused by a wrong setting in your software, or perhaps the job should have been printed with the **Print quality** set to **Best** instead of **Normal** or **Draft**.

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.

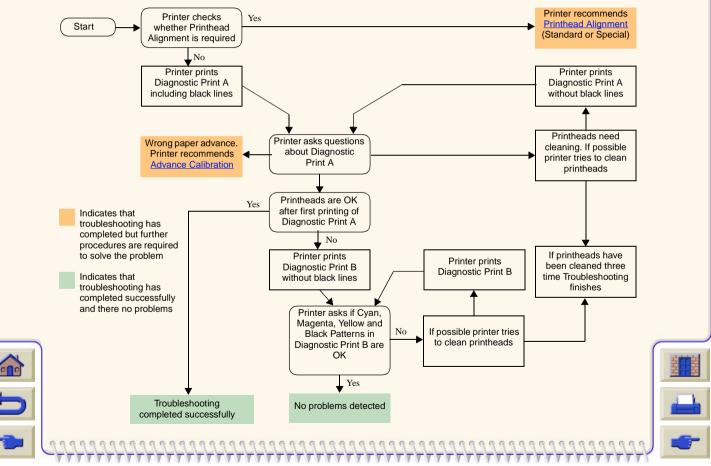






#### **Troubleshooting Flow Chart**

The following diagram shows the flow of the troubleshooting procedure.





# **Advance Calibration**

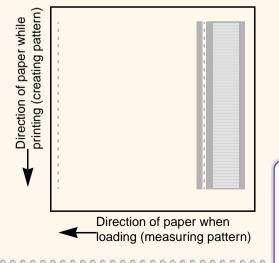
It is important that the paper loaded for this calibration is exactly that used for normal printing, both in quality (for example, glossy paper) and in width (for example, A0 or 36-inch). Either roll or sheet paper can be used. The routine prints a pattern and then cuts the roll (the cutter must be set 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**

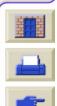
The printer stores the advance calibration values of the last two different types of media used for the calibration. When you print the printer ties to match the media you have selected to the stored values. If there is a match the printer applies the stored Advance calibration values.

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.

Advance calibration	Ľ
Create pattern 🔹 🕨	1
Create pattern 🔹 🕨 Measure pattern 🔹	
Restore factory	







# **Stepped Lines**

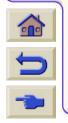
When you look at the image you have printed there are '**stepped lines**' in the borders of arrows and diagonal lines. The lines should be straight with no stepping.

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



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**

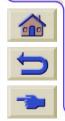
When you look at the image you have printed there are:

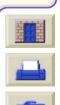
- Missing or faint lines.
- Printed characters having missing parts to them.

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



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

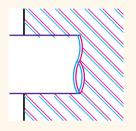




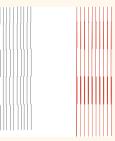


# **Color Alignment**

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.







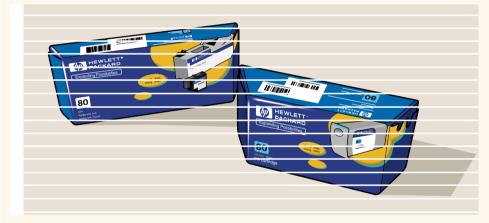


# **Horizontal Banding**

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.

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



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









# **Color Accuracy**

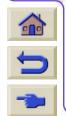
These are the areas you should review when troubleshooting a color accuracy problem:

#### Media

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

### **Related Topics**

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







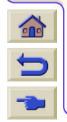
#### **Color Consistency problems**

- 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.

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



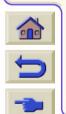




#### **Color Accuracy Configuration**

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> .



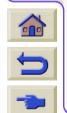




### **Additional Color Accuracy Information**

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.

#### **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.





-

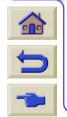


#### **Unknown Printhead Error**

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.





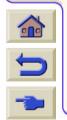
Printheads not aligned. Paper type not valid to align printheads.

Press ENTER to continue

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# **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.
- <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.



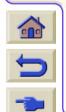




## Media

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>.







# **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





### **Removing Jammed Paper**

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

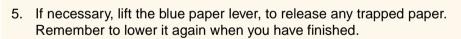
#### **CAUTION:** When moving the printhead carriage, touch only the black plastic parts.

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).

```
Slider bar
```

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.



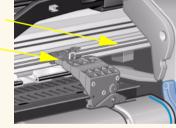
- Carefully remove any of the jammed paper which you can easily lift up and out from the top of the printer. 6.
- Carefully pull the rest of the roll or sheet down and out of the printer. You may need to cut the edge of the roll 7. with scissors.



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.



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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# Ink Marks on the Media

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





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#### 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)

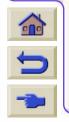
• Perhaps you have adjusted the drying time in the front-panel menu to speed up the printer output. Set "Drying time" to "Automatic".

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.





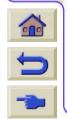


#### **Smears or Scratching on Your Printed Media**

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.







# Media Loading Problems

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

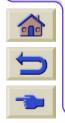
## **Roll media**

- 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 <u>Installing a New Roll on the Printer</u>.

#### 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







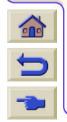
## **Media Output Problems**

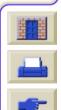
## Prints Fall on the Floor After Being Cut

- 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.



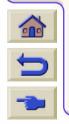


Introduction	Media & Ink	Solutions	Front Panel	Printer Options	Other	Index
Solving Problems	Image Quality Problems	Ink Supply Problems	Media Problems	Image Error 🖌	Other Problems	Getting Help

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# **Image Error**

- <u>Image is Incomplete</u>
   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.





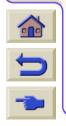
Introduction	Media & Ink	Solutions	Front Panel	Printer Options	Other	Index
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# Image is Incomplete

- 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).





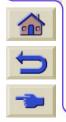
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### Image is Clipped

- 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.
- 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.





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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

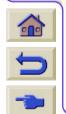




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### Image is in One Portion of the Printing Area

- 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.





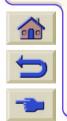
Introduction	Media & Ink	Solutions	Front Panel	Printer Options	Other	Index
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## Print is Distorted or Unintelligible

- 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.







# **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.





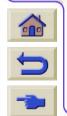
Introduction	Media & Ink	Solutions	Front Panel	Printer Options	Other	Index
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# **Other Problems**

<u>Communication Problems</u>

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

- <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.

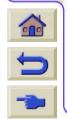




## **Printer Does not Print**

- 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.

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

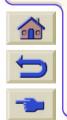




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## **Printer Seems Too Slow**

- 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.

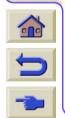




(	Introduction	Media & Ink	Solutions	Front Panel	Printer Options	Other	Index
ſ	Solving Problems	Image Quality Problems	Ink Supply Problems	Media Problems	Image Error	Other Problems	Getting Help 🖌

# **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.







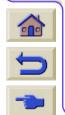
## **HP Customer Care**

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.

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

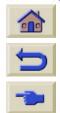






## What to Do Before You Call

- 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.





## **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.

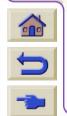




# **Front Panel**

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

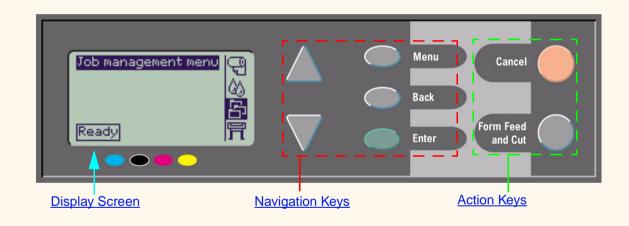






## The Front Panel

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:





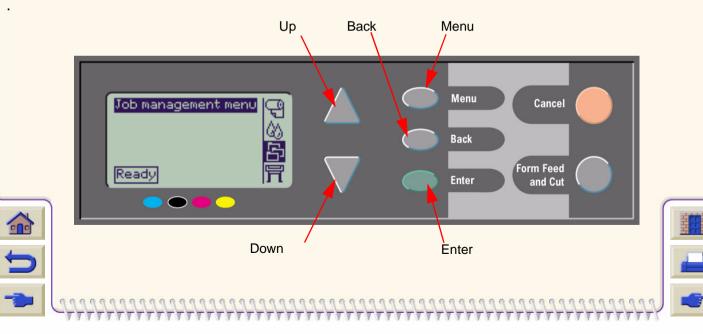


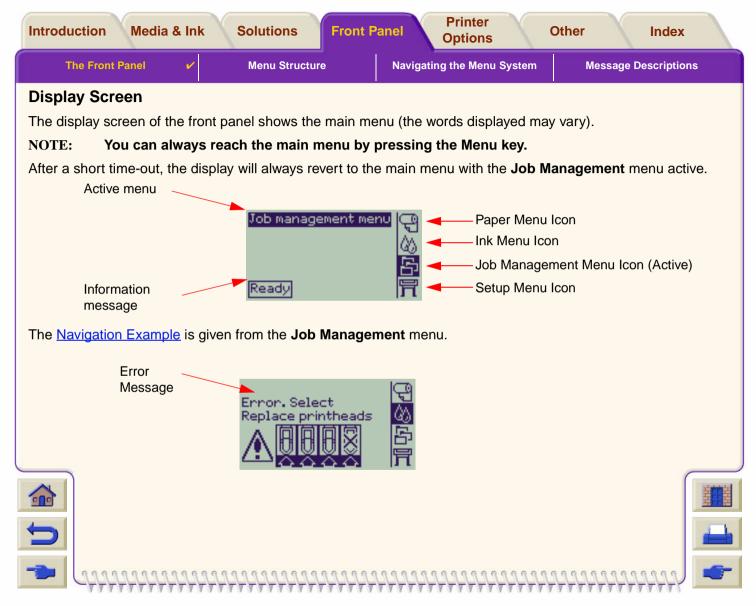


#### **Navigation Keys**

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.



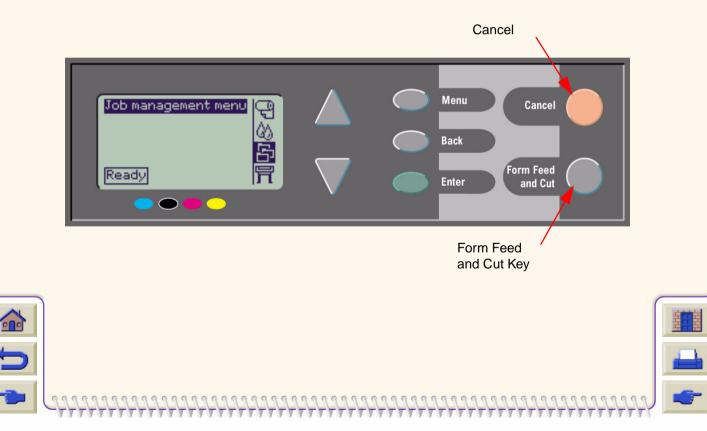




#### **Action Keys**

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.



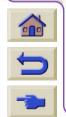


## Menu Structure

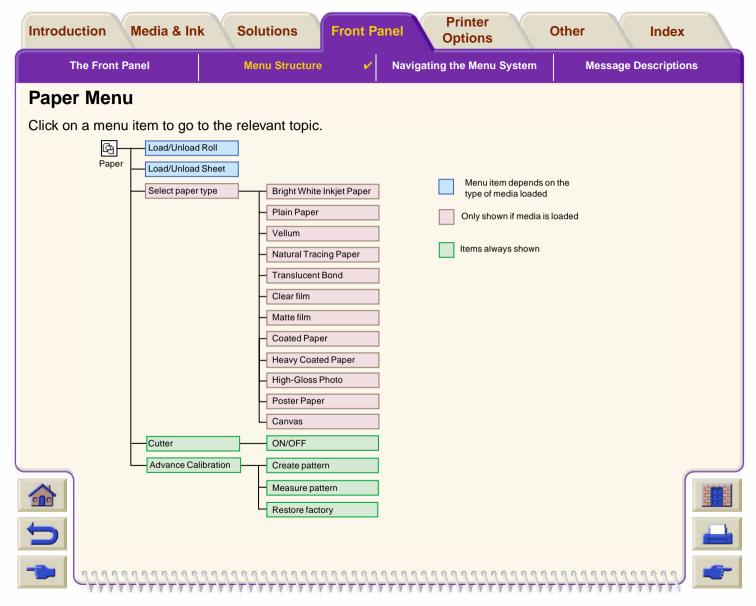
The front panel display area screen shows the four classes of menu options available represented with specific icons. Click on the icon to displays its menu structure.

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



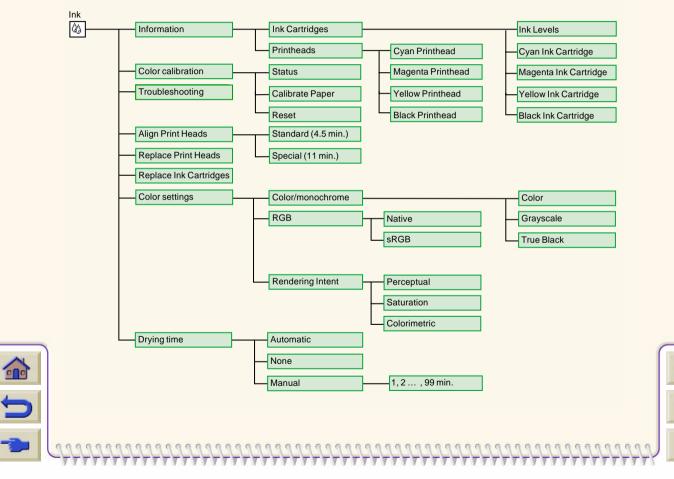






#### Ink Menu

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





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## Job Management Menu

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





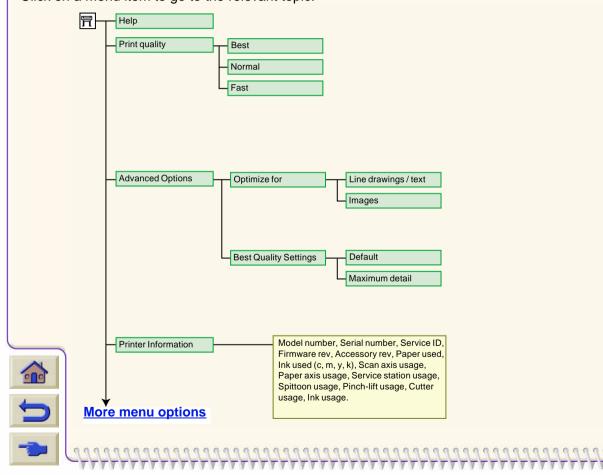
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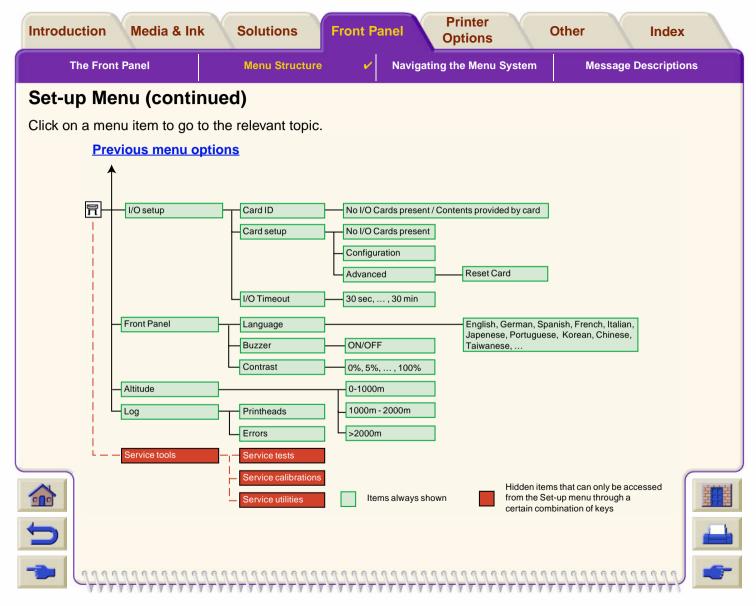


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## Set-up Menu

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





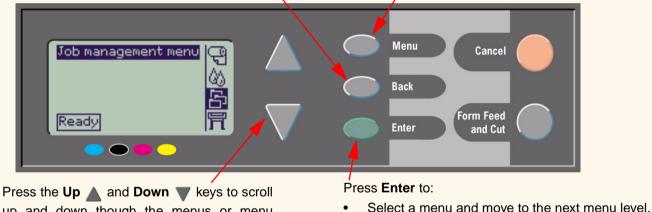


# Navigating the Menu System

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.

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**

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

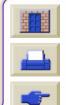
## How to Set the Ink-drying Time to Two Minutes

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. The display shows the Ink 2. Press the Enter key to 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

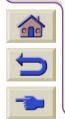


The Fron			I Structure		Menu System 🖌	Message Descriptio
		Setting D	rying Time Nav	vigation Example	e (continued)	
	Key Act	ion	D	isplay	R	esult
3.	Use the <b>Up</b> Down w ke highlight the time menu o	<b>—</b> ys to <b>Drying</b>	Ink menu Align print Replace p Replace in Color set Drying tim	rintheads k cartridgs.	The display si time option hi	nows the <b>Drying</b> ghlighted.
4.	Press the <b>En</b> enter the <b>Dry</b> menu.		Drying time <mark>Automatic</mark> None Manual = 1		time menu t	nows the <b>Drying</b> to allow you to te of drying time
5.	Use the <b>Up</b> <b>Down</b> ke highlight the menu option.	ys to Manual	Drying time Automatic None Manual = 1		The display Manual option	
Pr	evious				Continued	



	ont Panel		Structure	Navigating the M		Message Descriptio	
	Key Act			ving Time Navigation Example (continu Display		Result	
e	<ol> <li>Press the Er enter the Ma time setting</li> </ol>	nual drying	Manual 1 min		The display <b>Manual</b> drying menu to allow the drying time	you to select	
7	<ol> <li>Press the Up once to select minutes.</li> </ol>	-	Manual 12 min	<b>+</b>	The display <b>Manual</b> drying menu with selected.	shows the time setting two minutes	
8	<ol> <li>Press the Er set the drying minutes.</li> </ol>		Manual 2 min	* *	If the front-pane ON, there will 'beep' to confiru A tick mark (√) in of the field confi	be a short m the change. n the right side	
Ē	Previous				Continued		

Introduction Media & In	nk Solutions	Front Panel	Prin Optic	<u> </u>	ther	Inc	lex
The Front Panel	Menu Stru	I Structure Navigating the M		enu System 🖌	Message	Descri	ptions
	Setting Drying	Time Navigation E	xample	(continued)			
Key Ac	tion	Display		Result			
9. Press the To return to the menu.	top level	Ink menu Ink levels		The display menu.	shows the	Ink	
Previous							







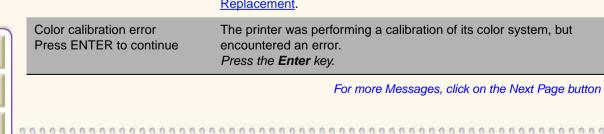
# Message Descriptions

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 <b>Enter</b> 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 <b>Enter</b> key.</i>

#### **Front Panel Messages**





Message Error Select Replace Printheads	Front Panel Messages (continued) Explanation and Action The printer has detected that one or more of the printheads is
Error	•
	The printer has detected that one or more of the printheads 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 (•) printheads. For an explanation of the replacement procedure, see <u>Printhead Replacement</u> .
HP is not responsible for damage from use of non-HP ink. Replace Continue	The printer has determined that one or more of the ink cartridges is not an HP product. Your product warranty only applies when you use HP ink. Any damage caused to your printer resulting from the use of non-HP ink cartridges is not the responsibility of Hewlett-Packard. If you want to replace the non-HP ink cartridges, select <b>Replace</b> and press the <b>Enter</b> key. Otherwise, select <b>Continue</b> and press <b>Enter</b> to continue.
HP is not responsible for damage from use of non-HP printheads. Replace Continue	The printer has determined that one or more of the printheads is not an HP product. Your product warranty only applies when you use HP printheads. Any damage caused to your printer resulting from the use of non-HP printheads is not the responsibility of Hewlett- Packard. If you want to replace the non-HP printheads, select <b>Replace</b> and press the <b>Enter</b> key. Otherwise, select <b>Continue</b> and press <b>Enter</b> to continue.

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For more Messages, click on the Next Page button

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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





oduction Med	ia & Ink Solut	tions Front I	Panol	Printer options	Other	Index	
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Γ	lessage		Explanat	tion and Actio	n		
	ing cartridges acing printheads	You are replacin or more cartridg installed before Follow the proce Cancel key to cont	les are missing the printheads edure for Printh	. The missing c are replaced.	artridges mus	t be	
•	ow and check over is properly	You have replaced one or more printheads and the printer's check has found that the printhead cover is not securely closed. <i>Open the window and check the printhead cover. The procedure is</i> <i>described in the</i> <u>Printhead Replacement</u> procedure. <b>Note</b> : This message may also appear following a paper jam, as the printer cannot detect the exact reason for the problem. In this case you may have to resort to powering off the printer or even removing the power cable from the machine, in order to recover from the problem. See <u>Clearing a Media Jam</u> .					
•	ow and check allation of setup	During system s printer, you need printheads cann printer has been setup printheads Open the windo relocate the setu printheads are r	d to install the not be used for n powered off. s have not bee w and follow so up printheads.	setup printhead printing, but mu The printer has in installed corre ubsequent instru- Contact HP for	s. These spec ist be used wh detected that ectly. uctions to rein advice if the s	tial the the stall or	HHH
<b></b>			For more N	Messages, click o	on the Next Pag	ge button	1

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		F	Front Panel Mes	sages (cont	inued)				
	Messag	le		Explana	tion and Ac	tion			
	Option not available	You have selected moment. (The p	•				the		
	Out of paper		The printer ran out of paper while printing the calibration pattern. Load a sheet or roll that is at least 65 cm (25 inches) long and 50 cm (20 inches) wide.						
	Paper advance calibration is recommended. Press ENTER to calibrate		You are recommended to perform the Advance calibration routine, to ensure the optimum print quality. Press the <b>Enter</b> key to create the calibration pattern. See <u>Advance</u> <u>Calibration</u> .						
	Paper advance calibration is recommended. Load paper and select Paper advance calibration. Press ENTER to finish Paper loaded with too much skew Press ENTER to retry Press CANCEL to abort		You are recomm ensure the optin <i>Load a sheet or</i> from the <b>Paper</b>	num print qual roll of paper a	lity. and then seled	ct <b>Advance</b>			
			During the loadi is skewed too m ('Skew' is the ar line.) <i>Either: Press th</i> <i>Or: Press the</i> <b>C</b>	uch, that is, it ngle between t e <b>Enter</b> key to	has not been he actual pap o restart the lo	n loaded stra per edge and oading proce	ight enou I the corr	igh.	
5				For more	Messages, clic	ck on the Ne	α Page bι	ıtton	

oduction Media & Ink	Solutions Front	Panel Printer Options	Other Index				
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Front Panel Messages (continued)							
Message		Explanation and Action	n				
Paper mispositioned	the load line m position. <i>Reload the pa</i> j	ot properly positioned in the prir argins or it has moved too much per following the normal proced <u>coading Roll Media</u> and <u>Loading</u>	n from its previous ure, to solve this				
Paper not found Press ENTER to retry Press CANCEL to abo	nas been loade rt <b>Either</b> : Press a	ding of paper, the printer has de ed. The <b>Enter</b> key to restart the load <b>Cancel</b> key to cancel paper load	ling procedure;				
Paper not present. Load paper to print cal pattern	ibration having paper lo	s calibration routine has been tri baded. Se <u>Advance Calibration</u> for detai					
Paper too big to scan t pattern after printing it	detected that t needed for sca 65 cm (25 inch	er loading for the Calibration ro ne it will not be able to load the nning. The minimum size requir es) long and 50 cm (20 inches) r sheet that satisfies this minimu	later when it will be red for the print is wide.				
		For more Messages, click o	on the Next Page button				

For more Messages, click on the Next Page button

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The Front Panel	Menu Structure	Navigating the Menu System	Message Descriptions 🖌			
	Front Panel Me	ssages (continued)				
Messag	je	Explanation and Action				
	Paper too big Press ENTER to retry Press CANCEL to abortWhile 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 					
Paper too small fo diagnostic print	the printer is to	The Troubleshooting utility has found that the single sheet loaded in the printer is too small for a <b>Diagnostic Print</b> . Load a roll of paper, or a sheet that is A3-size or larger.				
Paper too small to align printheads Load bigger size to align Press ENTER to c	Difference of the second secon	ed is not big enough to contain the er (select <b>Unload roll</b> or <b>Unload</b> and then load paper that is large e ndscape mode for Standard align ode for Special alignment.	I sheet from the enough—at least A4/			
Paper too small to pattern	calibration patte	neet that is at least 65 cm (25 incl				
		For more Messages, click on	the Next Page button			





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The	Front Panel	Menu Structure	Navigating the Menu System	Message Descriptio	ons 🗸			
		Front Panel Me	essages (continued)					
	Message		Explanation and Action	I				
	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 abortPress the <b>Enter</b> key to load larger paper, or the <b>Cancel</b> key to stop the load process.							
	Paper type not valid to align printheads Change paper type to align Press ENTER to continu	the paper load The paper load <i>Unload the pap</i> ue <b>Paper menu</b> ) a	You have requested the printer to align paper but it has detected that the paper loaded is not the right type to use to align the printheads. The paper loaded is not big enough to contain the alignment pattern. Unload the paper (select <b>Unload roll</b> or <b>Unload sheet</b> from the <b>Paper menu</b> ) and then load paper that is the right type for the alignment. See <u>Printhead Alignment</u> .					
	Pattern not found Reload it again, please	the pattern was Reload the she	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 <b>Create pattern</b> part of the calibration routine.					
	Possibly a paper jam 1. Open window 2. Switch power off 3. Clear paper path 4. Switch power on 5. Align printheads	detected that a however, it may Follow these st <u>a Media Jam</u> . I strongly recom	paper jammed in the printer. (The motor is blocked and the likely of y be due to some other cause.) teps to check the paper path, as of When the jammed paper has been mended to align the printheads, pecome misaligned as a result of	cause is a paper jam; described in <u>Clearing</u> en cleared, you are as they are quite				
	Possibly a paper jam 1. Open window 2. Switch power off 3. Clear paper path 4. Switch power on	Reload the she calibration rout There may be detected that a however, it may Follow these st <u>a Media Jam</u> . I strongly recom	eet that was printed by the <b>Creat</b> tine. paper jammed in the printer. (Th a motor is blocked and the likely of y be due to some other cause.) teps to check the paper path, as of When the jammed paper has been mended to align the printheads,	e printer has cause is a paper jam; described in <u>Clearing</u> en cleared, you are as they are quite				

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For more Messages, click on the Next Page button



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The Front Panel	enu Structure Navigating the Menu System Message Descripti					
Front Panel Messages (continued)						
Message	Explanation and Action					
Printhead replacement not available now. Cancel print jobs before replacement	<ul> <li>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.</li> <li><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 system</i> menu).</li> <li><i>Or</i>: 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 system</i> menu).</li> </ul>					
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 <b>Enter</b> key to load the correct type of paper, or the <b>Cancel</b> key to stop the load process.					

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		Front Panel Mes	sages (continued)				
Γ	lessage		Explanation an	nd Action			
Paper too s to align prir		detected that you alignment proces	key to load larger pa	nough paper	loaded for the		
	ADS not functional ce printheads I print	problem with the at this stage or c Select the require	empting to print a job printheads. You may cancel the print. red option and press ou will be told which c	v either replace the <b>Enter</b> key	ce the printhea y. If you decide		
Load paper printheads.	require alignment. r and select Align ER to finish	Press the Enter	detected that the prin key to continue. Load <b>ntheads</b> from the <b>Ink</b>	d a sheet or i	roll of paper, a		
Printheads Press ENT	require alignment. ER to align	The printer has detected that the printheads need to be aligned. Press the <b>Enter</b> key to align them. See <u>Printhead Alignment</u> .					
Problem fo calibration	und during	routine. Respond to any	em was found during t other messages that paper problems, and ine.	appear on th	ne front panel,	ſ	HHH H
			For more Messag	es. click on th	e Next Page bi	utton	5



For more Messages, click on the Next Page button



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The Front Panel	Menu Structure	Navigating the Menu Sys	tem Message Descriptions 🗸
	Front Panel Me	ssages (continued)	
Messag	е	Explanation and Ad	ction
Problems detected CARTRIDGES. Continue process a them. Press ENTER to co	ink system. and replace Press the <b>Ente</b> faulty ink cartrie	or with the ink cartridges du or key and then follow the in dges.	
Reload paper		or in the paper, as shown in I procedure to reload the pa	
Replace empty car before replacing pr	intheads printheads, but are empty. The printheads are Press the <b>Ente</b>	ested the printer to permit the printer has detected the empty cartridges must be replaced. <i>replaced.</i> <i>rekey and follow the proceed cribed in <u>Ink Cartridge Rep</u></i>	at one or more cartridges replaced before the lure for replacing empty
Right edge of roll to load line Press ENTER to re Press CANCEL to	where it should try <i>Either: Press t</i>	ut of the load line margins— I be loaded. he <b>Enter</b> key to restart the <b>Cancel</b> key to cancel paper	loading procedure;

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For more Messages, click on the Next Page button





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The	e Front Panel	Menu Structure	Navigating the Menu Sy	stem Message	Descriptions 🗸
		Front Panel M	essages (continued)		
	Message		Explanation and A	ction	
	Right edge of sheet to from load line Press ENTER to retry Press CANCEL to abo	the paper is to line painted or rt <b><i>Either</i></b> : Press	iding of a sheet of paper, the po far to the left; it should be in the right side of the plater the <b>Enter</b> key to restart the <b>Cancel</b> key to cancel pape	e aligned close to the e loading procedure;	
	Roll edge not found Please check roll edge non-clear Press ENTER to retry Press CANCEL to abo	es are of the paper. A (clear); only n <i>Either</i> : Press	iding of a roll, the printer ca A possible cause is that the on-clear media are support the <b>Enter</b> key to restart the <b>Cancel</b> key to cancel pape	media is transparent ed. <i>loading procedure;</i>	
	Roll right edge too far load line Press ENTER to retry Press CANCEL to abo	paper is too fa painted on the rt <b>Either</b> : Press	ding of a roll of paper, the p ar to the left; it should be alig e right side of the platen. the <b>Enter</b> key to restart the <b>Cancel</b> key to cancel pape	gned with the blue line line line line line line line lin	
	Sheet edge not found Please check sheet ed non-clear Press ENTER to retry Press CANCEL to abo	ges are edge of the pa (clear); only n <i>Either</i> : Press	iding of a sheet, the printer aper. A possible cause is tha on-clear media are support the <b>Enter</b> key to restart the <b>Cancel</b> key to cancel pape	at the media is transp ed. • <i>loading procedure;</i>	
			For more Messages, o	click on the Next Page	button



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The Front Panel	Menu Structu	re Naviga	ting the Menu System	Message De	escriptions 🗸
	Front P	anel Messages (c	ontinued)		
Mes	ssage	Expl	anation and Actior	n	
Sheet not load Load sheet wit pattern	th printed no she Load t	et was found.	form a scan of the ca printed by the <b>Create</b>	•	
Sheet too long Please check Press ENTER Press CANCE	it is not a roll sheet to retry Check L to abort <b>Either</b> <b>Or</b> : Pr	appears to be too lo that the paper is no Press the <b>Enter</b> key ress the <b>Cancel</b> key	0	heet again; If the paper is on a	а
Troubleshootir Resume norm If problem per Troubleshootir Press ENTER	al printing this sta sists select could ng again you ha to continue defect <i>Press</i> the pro- select	age perform further damage the other of ave given, the printhe s in the Diagnostic F the <b>Enter</b> key. Ther oblem recurs, try use <b>Replace Printhead</b>	ne Troubleshooting ro cleaning on the print nes. However, accord eads require cleaning Print. In resume your norma ing the <b>Troubleshoo</b> t <b>is</b> from the front pane theads that are faulty.	heads because thi ding to the evaluat g because there a <i>I printing activities</i> <b>ting</b> routine again, el (in the <b>Ink Syst</b> e	is ion re :. If , or
Troubleshootir paper for a dia	agnostic print. the pri		has found that there	is no paper loaded	d in
5		For m	ore Messages, click o	n the Next Page bu	tton

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The	Front Panel	Menu	Structure	Navigat	ting the Menu System	n Mes	ssage Description	is 🖌
		F	Front Panel Me	ssages (co	ontinued)			
Message				Expla	anation and Action	on		
	Unable to initialize ir Call HP representati		The system car Call HP for serv		ssfully complete the	e startup.		
	Unable to prepare in Open window to che SETUP printheads		and the system Check the setu	is asking y p printhead	e, the purge of the i you if the preparation and then follow to further questions.	on has comp the instruction	leted.	
	Unknown ink cartrid Press ENTER to cor	•		P, and there	recognized by the p is at least one that		cartridges	
	Unknown paper forn Reload paper	nat	unknown. <i>Reload the pap</i>	er following	of the paper loaded of the normal proce <u>I Media</u> or <u>Loading</u>	dure, to solv	re this	
	Unknown paper type Select paper type	Э	••		led in the printer is a from the printer n		the printer.	
	Unknown printheads Press ENTER to cor			P, though th	cognized by the prine printer can still u		heads	
				For mo	ore Messages, click	on the Next	Page button	





duction Media & In	k Solutions From	t Panel Printer Options	Other Index
The Front Panel	Menu Structure	Navigating the Menu System	Message Descriptions
	Front Panel Me	essages (continued)	
Messag	e	Explanation and Action	
Warning! Machine calibratio be performed. Ref for instructions.	ns need to Follow the pro	prations for the paper that is loaded cedure described in <u>Advance Calil</u>	
Warning: color cali done on this paper	type performed on them. <i>To calibrate co</i>	s detected that the color calibration this paper type, and the system is plor for the current paper type, selection $\rightarrow$ <b>Calibrate paper</b> .	configured to do
Warning: printhead aligned	since the last	s detected that the printheads hav replacement. gn the printheads by selecting <b>Alig</b>	-







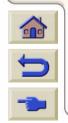
# **Printer Options**

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.

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#### 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.
- 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.

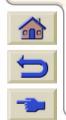




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Page Fo	ormat v		ge Size in the t Panel	Image Appearance	e Print Ma	nagement	Printer	Configuration

# **Page Format**

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

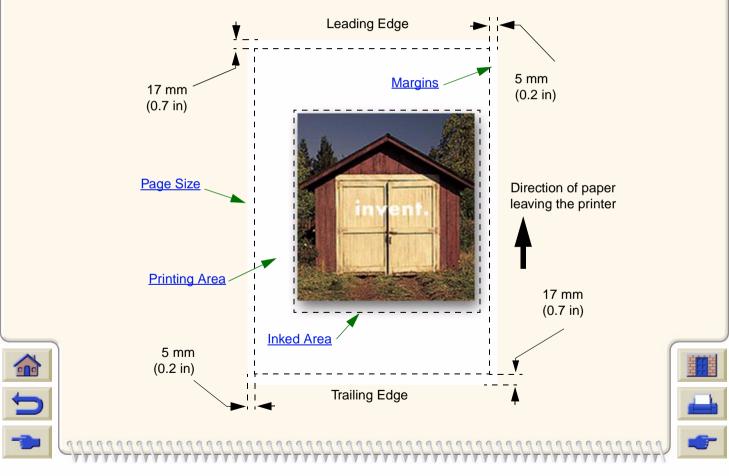






### **Page Description**

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



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#### 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

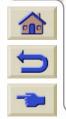
The margins are set to ensure the maximum printable area on your paper. The two side margins are 5.0 mm. The margin settings for the leading and trailing edges are 17 mm.

#### **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>.

#### Inked Area

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

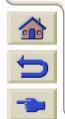


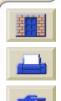




# **Setting Page Size in the Front Panel**

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





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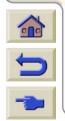


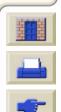
# Image Appearance

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.





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### **Print Speeds and Print Quality**

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

			ANSI-D size	ANSI-E size
Paper	Color/Grayscale	Quality	ANSI-D SIZE	ANSI-E SIZE
ruper	ooloi, oraysoure	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

#### **Typical Printing Times**





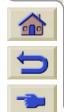


More Printing Times

tion Media & In	k Solutions	Front Panel	Printer Options	Other	Index
e Format Settin	ng Page Size in the Front Panel	Image Appearance	Print Managem	ent Printer C	Configuratio
	Typical P	Printing Times (co	ontinued)		
Dener		Quality	ANSI-D size	ANSI-E size	]
Paper	Color/Grayscale	Quality	Time (in secs)	Time (in secs)	
Heavy	Color	Best	490	980	
Coated Paper		Normal	120	225	1
		Draft	85	160	1
	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	1
		Normal	435	830	
		Draft	325	620	

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### **Print Quality**

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

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.





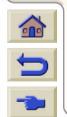


### **Advanced Options**

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

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- 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.

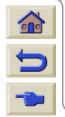
The Line drawings/text option only affects prints that have color content.

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

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

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





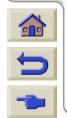


#### **Best Quality Settings**

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.





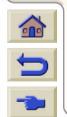


# **Print Management**

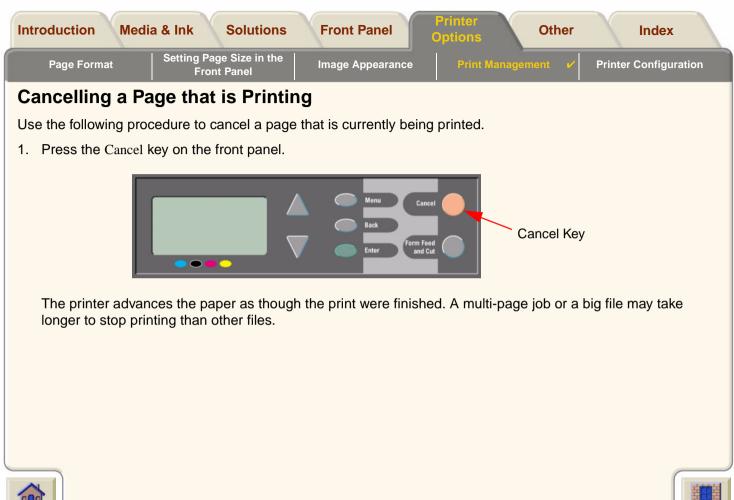
These topics describe the best methods of managing the work that the printer is doing.

- <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.











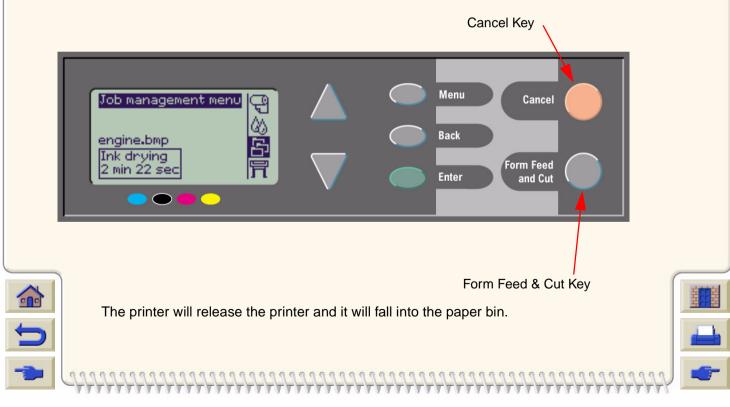


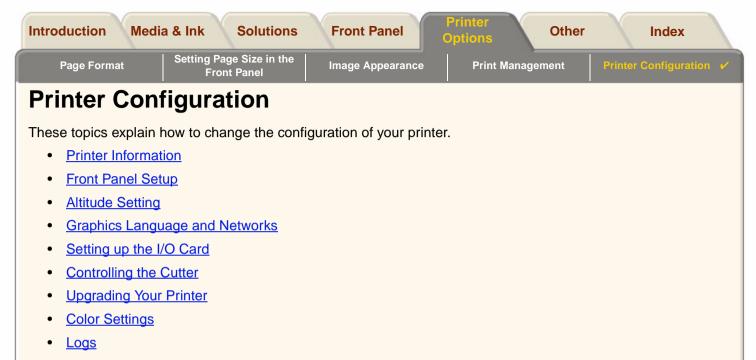
### **Cancelling the Drying Time**

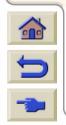
CAUTION: Use caution when performing this procedure as an image which has had insufficient time to dry could get damaged.

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.











### **Printer Information**

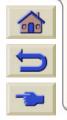
Your **HP DesignJet 500PS** printer provides an information display on the front panel that shows the current configuration of the system. You can also print out this information directly on your printer.

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



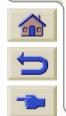


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### **Front Panel Setup**

You can configure the following parameters for the front panel:

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







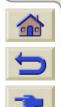
#### Menu and Message Language

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.





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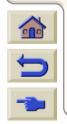
#### Alert Buzzer

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.





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#### **Screen Contrast**

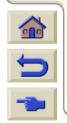
You can adjust the screen contrast of the front panel to best suit the ambient lighting conditions at your location. The contrast can be varied from 0% to 100% in 5% increments. The default setting is 50% and is suitable for most situations.

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**

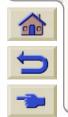
Your **HP DesignJet 500PS** printer contains a vacuum pump which is used to hold the media onto the platen. The altitude of your location effects the efficiency of this pump so you need to specify the altitude to ensure the pump operates correctly.

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			







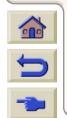
### **Graphics Language and Networks**

#### 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.

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







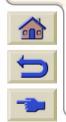
### Setting up the I/O Card

#### 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.





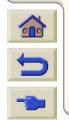


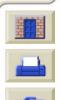
### **Controlling the Cutter**

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

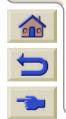
"System Software" is the name given to a type of software which runs the functions in your printer.

#### 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:

#### Color/monochrome

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

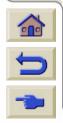
- Color—the printer prints in color
- Grayscale—the printer prints the color image in grey shades.
- True black—the printer prints the color image in grey shades using black ink only.

#### <u>RGB</u>

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

#### **Rendering Intent**

- Perceptual
- Saturation
- Colorimetric





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### Logs

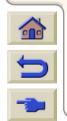
Your **HP DesignJet 500PS** printer keeps a log for the printheads and an error log. These logs are normally used by service engineers.

### **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.





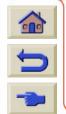
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## Other

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.

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.





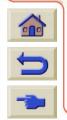


### **Storing and Moving Your Printer**

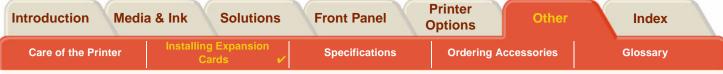
If you need to move your printer or store it for an extended period of time, you need to prepare your printer properly to avoid possible damage to the printer. To prepare your printer, follow the instructions given below:

# 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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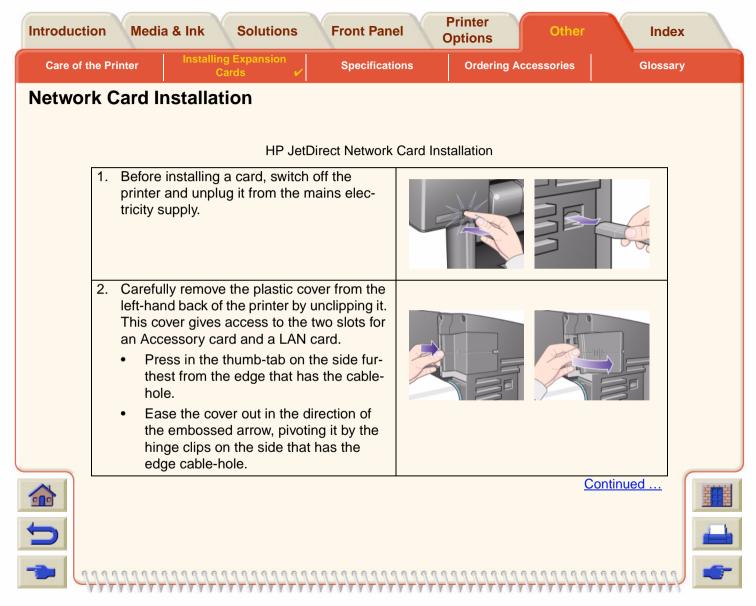
# **Installing Expansion Cards**

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

Network Card Installation







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HP JetDirect Network Card Installation (Continued)												
	<ul> <li>Remove the cover completely Inside the compartment there are two slots for a LAN card or an Accessory card.</li> <li>You can use either slot for either card, but we recommend putting a LAN card on the left (nearer to the front of the printer) and an Accessory card on the right. In this way the cable from the LAN card can easily pass through the slot in the door.</li> </ul>											
	card), approp	remove the priate slot b s. You can u	ard (or an Acce e metal cover fr by unscrewing it use a screwdriv	om the ts two								
	into pla and bo done v	ace, using i ottom of the vith a screv	nserted the car its two screws ( e card). Again, t vdriver or manu	(at the top this can be								
	Previous	<u>.</u>			<u>,,,,,,,</u>	111111	<u>Co</u>	ntinued				

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HP JetDirect Network Card Installation (Continued)											
		/ pushed ir	able into the LA nto place and cli								
	clippir • Pu ha • Sv sit oti th pa ca • Ta ca sp	ng it back in ut the two h as the edge wivel the co te to the en her two tab eir slots. E asses corre able-hole (s ake care to able so it do bindle or ro	ninge clips on the cable-hole into over in the direc nbossed arrow a os on the opposi nsure that the L ectly through the shown by the ye carefully route to bes not interfere II.	tion oppo- and clip the ite side into AN cable e edge llow arrow). the LAN e with the							
C	<ol> <li>Once you have completed the physical installation of the card you will have to configure it for you LAN, see <u>Setting up the I/O Card</u>.</li> <li><u>Previous</u></li> </ol>										
-	111111		111111111111			1111111111					



### **HP-GL2 Accessory Card Installation**

Not available for your printer model.





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<u>Memory Speci</u>	fications			
Printer Power S	Specifications			
<u>Ecological Spe</u>	cifications			
Enviromental S	Specifications			
<u>Acoustic Speci</u>	fications			
<u>Connection Sp</u>	ecifications			



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unctional Spec	ifications							
HP DesignJet 500PS Functional Specifications								
Functional Sp	ecifications							
	Four colors: cyan, magenta, yellow and black.							
	Printheads:		36 kHz (Cya	n, Magenta, Yellov	N).			
HP Ink	T Tintinodus.	600 dpi,	36 kHz (Blac					
Supplies			Cyan					
Supplies	Ink Cartridges contents:		Magenta	69 ml				
			Yellow	03 111				
			Black					
Paper sizes	Width (carriage a	axis)	Length (paper axis)					
	Minimum	Maximum	Minimum	Maximum				
Roll - D/A1 size		625 mm		100 mm				
printer	_	25 inches	1000 mm	4 inches	-1			
Roll - A0+/ E+ size printer		1071.8 mm 42.2 inches	40 inches	roll externa diameter	ai			
Sheet -D/	140 mm 5.5 inches	42.2 mcnes						
A1 size printer		25 inches	140 mm	1897 mm				
Sheet -A0+/		1071.8 mm	5.5 inches	74.7 inche	s			
E+ size printer		42.2 inches						
					More			



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	Functional S	pecifications							
	HP Supporte	d Media <sup>a</sup>							
	HP Bright Whit	te Inkjet Paper (Bo	nd)						
	HP Vellum								
	HP Natural Tra	acing Paper							
	HP Coated Pa	per							
	HP Heavyweig	ght Coated Paper							
	HP Matte film								
	HP High-Gloss	s Photo Paper							
	HP Semi-Glos	s Photo Paper							
		ed Semi-Gloss							
	HP Clear film								
	HP Translucen	nt bond							
	HP Studio Car	างลร							
	HP Satin Poste	er Paper							
	HP Banners w	ith Tyvek®							
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	HP DesignJet 5	00PS Functional S	pecifications (Conti	nued)		
Functional Spe	ecifications					
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		
Previous					More	

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HP DesignJet 500PS Functional Specifications (Continued)								
Functional S	Functional Specifications							
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 specified vector length at 23° (73°F), 50-60% Relative Humidity, on HP special polyester film.						
Previous								

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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# **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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Memory Specif	ications				

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

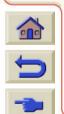




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# **Printer Power Specifications**

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



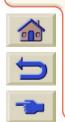


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# **Ecological Specifications**

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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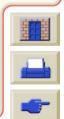


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Enviromental S	pecifications						
Environmental Specifications							
Operating R	anges Printing:	15° 70°		5°C (59° F to 95° F	) RH 20%	% to	

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.





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# **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)





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	Connection Specifications							

- <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 (IEEE-1284 compatible/Centronics) 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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#### **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				





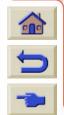


6

# **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>





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ſ	Care of the Print	ter		Expansion ards		Specifications	Ordering Ac	cessories 🖌	Glossary	

### **Documentation**

Language	Pocket Guide	User's Reference Guide	Unpacking and Assembly poster						
	HP Part Numbers	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						



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Language	Pocket G	uide User's Guide	Reference	Unpacking and Assembly poster	r
	HP Part N	Numbers		•	
Slovakian	C7769-90	0030 Not ava	ailable	Not available	
Taiwanese	C7769-90	0013 C7769	-90013	C7769-90033	
Thai	C7769-90	0026 Not ava	ailable	Not available	
Turkish	C7769-90	0027 Not ava	ailable	Not available	

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duction	Media & Ink Solutions	Front Panel O	ptions Other	Index
re of the Pri	nter 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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Care of the Printer	Installing Expansio Cards	on s	Specifications	Ordering Accessories	Glossary
Consumable Ite	ms				
	ltem	Color	HP Supply No.	HP Part Number	
	Ink	Black	10	C4844A	
	Cartridges	Cyan		C4911A	
		Yellow	82	C4913A	
		Magenta	1	C4912A	

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.

Printheads

Black

Cyan

Yellow

Magenta





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Care o	f 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 u	use to create your drav	wings.				
	Centronics	A standard for the	parallel interface betw	een computer and devic	e.			
	clipping	Losing part of a dra						
	СМР	businesses by refe	rencing third-party pri	nting material choices to				
	СМҮК			olors 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 conditior	n is			
	device		-	uter: printer, tape drive, e	tc. Your HP	-		
	dpi	Dots per inch, a m	easure of print resolut	ion.		불법물		
0		TermMeaningSI paperAn American standard paper size; e.g. D, E.hitecturalThe Architectural paper sizing system.hitecturalThe software you use to create your drawings.htronicsA standard for the parallel interface between computer and device.pingLosing part of a drawing at the edges.PComplementary Media Program that helps HP customers grow their businesses by referencing third-party printing material choices to ensure maximum HP DesignJet printer flexibility and printing solutions.YKCyan, magenta, yellow and black. The colors of the printer's four inks, and also a standard color model.ated perPaper coated on one side for inkjet printing.aultA value or condition that is assumed if no other value or condition is specified.						

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troduct	tion Media		Front Panel	Printer Options Othe	Index				
Care of	the Printer	Installing Expansion Cards	Specifications	Ordering Accessories	Glossary				
	Term		Meani	ing					
	drivers	Software that contr	ols the communicatio	n between a computer	and a device.				
	front panel	The control panel of	control panel on the front right of the printer.						
	front panel The structure of options in the front-panel display. menus								
	graphics A programming language telling a print device how to output graphic data. language								
	grayscale	yscale Shades of gray to represent colors.							
	high-gloss photo	A glossy, opaque p	hotographic paper.						
	HP-GL/2	One of Hewlett-Pao printers. Produces	0 1	hics languages for plott	ers and				
	l/O Input/ output	The transmission of	f data between a con	nputer and a device.					
	IEEE-1284	(IEEE) as the Stan	-	ctrical and Electronics I d for a Bi-directional Pa ters	0				
	ink cartridge	•	Ink Supplies which control the printer on the	ontains all the ink used right side.	in the printer.				
	inked area	The smallest recta maintaining its rela		the content of the draw	ng, while				
			F	or More Terms, click on the	Next Page Icon				

Introduc	tion Media	& Ink Solutions	Eront Danol	Printer Options Other	Index
Care of	the Printer	Installing Expansion Cards	Specifications	Ordering Accessories	Glossary 🗸
	Term		Meanir	ng	
	ISO paper	An international st	andard paper size; e.g.	A1, A2, etc.	
	JIS	A Japanese stand	ard paper size.		
	LAN	Local area networl	κ.		
	long-axis printing	Printing a page wh	en the length is longer	than a standard page s	ize.
	margin	•	1 0	• •	page from
	Nesting	Placing two or mor	re pages side-by-side o	on roll paper to avoid wa	ste.
	nozzles	Located undernea	th the printhead. The n	ozzles direct the ink ont	o the page.
	palette	A set of logical pe	ns defined by color and	d width.	
	PJL	Printer Job Langua printer.	age. A programming lar	nguage that controls jobs	s going to a
	parallel interface	A type of interface serial interface.	between computer and	d device. Generally faste	er than a
	PANTONE				rd for color
	pen			pens, the lines it draws n	natch the
	ArroductionMedia & InkSolutionsFront PanelOptionsOtherIndexCare of the PrinterInstalling Expansion CardsSpecificationsOrdering AccessoriesClossaryTermMeaningISO paperAn international standard paper size; e.g. A1, A2, etc.JISA Japanese standard paper size.LANLocal area network.long-axis printingPrinting a page when the length is longer than a standard page size.marginThe 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.NestingPlacing two or more pages side-by-side on roll paper to avoid waste.nozzlesLocated underneath the printhead. The nozzles direct the ink onto the page.paletteA set of logical pens defined by color and width.PJLPrinter Job Language. A programming language that controls jobs going to a printer.parallel interfaceA type of interface between computer and device. Generally faster than a serial interface.PANTONEThe PANTONE MATCHING SYSTEM® is an international standard for color communication in the graphics art industry.			ext Page Icon	

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Introduc	tion Media 8	& Ink Solutions	Front Panel	Printer Options Oth	er Inde	x
Care of	f the Printer	Installing Expansion Cards	Specifications	Ordering Accessories	Glossar	y 🗸
	Term		Meani	ng		
	platen	The exterior part o printer.	f the printer on which t	he paper rests before	e going into the	
	printhead	The printhead is in prints the ink onto	stalled into the carriag the paper.	e assembly. It is the	part which	
	printing area	Page size minus m	argins.			
	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 pro	cessing with	
	raster		ing an image, in terms is more memory than		nes. Raster	
	Rendering Intent	Rendering intent is Format for Color P	a concept defined by rofiles".	ICC Spec ICC.1:199	8-09, "File	
~		to be used during to applies specifically sequence. Typically	tion: "Rendering intent the evaluation of this p to that profile in the s y, the user or applicati time or embedding tim	profile in a sequence of equence and not to the on will set the render	of profiles. It he entire	
	RGB	Red, green and blu	ue. A standard color m	odel.		
D			Fc	or More Terms, click on th	ne Next Page Icon	

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Term		Meanir	ng		
RIP	Raster Image Proc	essor.			
RTL		nguage is one of Hewle ers and printers. Produ	ett-Packard's standard gra ices raster data.	phics	

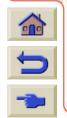
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For More Terms, click on the Next Page Icon





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Care of the Printer	Installing Expansion Cards	Specifications	Ordering Accessories	Glossary	v		
Term		Meani	ing				
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.	, as you look at the pr	inter from the front in whic	ch the print			
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	JS.					



V



**Printer** 

#### Ν R S W В С D E G н Μ 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 📭

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

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

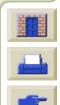




Cancelling Drying Time cancelling the drying time 📼 choosing media 📭

## 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

#### R Β С D E G н Μ Ν Ο 0 S W X

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** 

**Options** 

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** 

**Options** 

## 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

#### page size 🖙 Ν Page Size 📭 natural tracing paper 🖙 Navigating the Menu System 🖙 page size 📭 paper Navigation important points 🖙 Example 🖙 Paper Menu 📼 Navigation Keys 🖙 parallel (Bi-Tronics/Centronics) interface specificanetwork interface tions 📭 changing settings 🖙 parallel interface 🖙 networks and graphics language IFF physical specifications Normal 📭 plain paper 🖙 Print Resolution 🖙 Pocket Guide 📼 0 poster paper 📭 Obtaining Roll Media Information 🖙 PostScript Upgrade 🖙 Obtaining Sheet Media Information 🖙 power specifications One Image Overlays Another on Same Sheet 🖙 Other Sources of Information for Incorrect Printed print appearance controlling 📭 Image 📭 Print Cancel 🖙 Output Contains Only a Partial Print 🖙 Print Distorted or Unintelligible Ρ Print Quality 🖙 Page Description 📼 print quality Page Format printing speeds and print quality Inked Area 📭 settings 📼 Margins 🖙 Print Resolution Printing Area 📭 Best 🔊 Size 📭 Fast 📭 page format Normal 🖙 inked area 📭 print resolution 🖙 margins 📼 Printable Area

## 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

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 Solutions Solving 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 📭



#### R S В С D E G н Μ Ν 0 0 W XY Α

### S

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 📭









vellum 🖙

#### W

Warped Lines 🖙 Web Page 🖙

