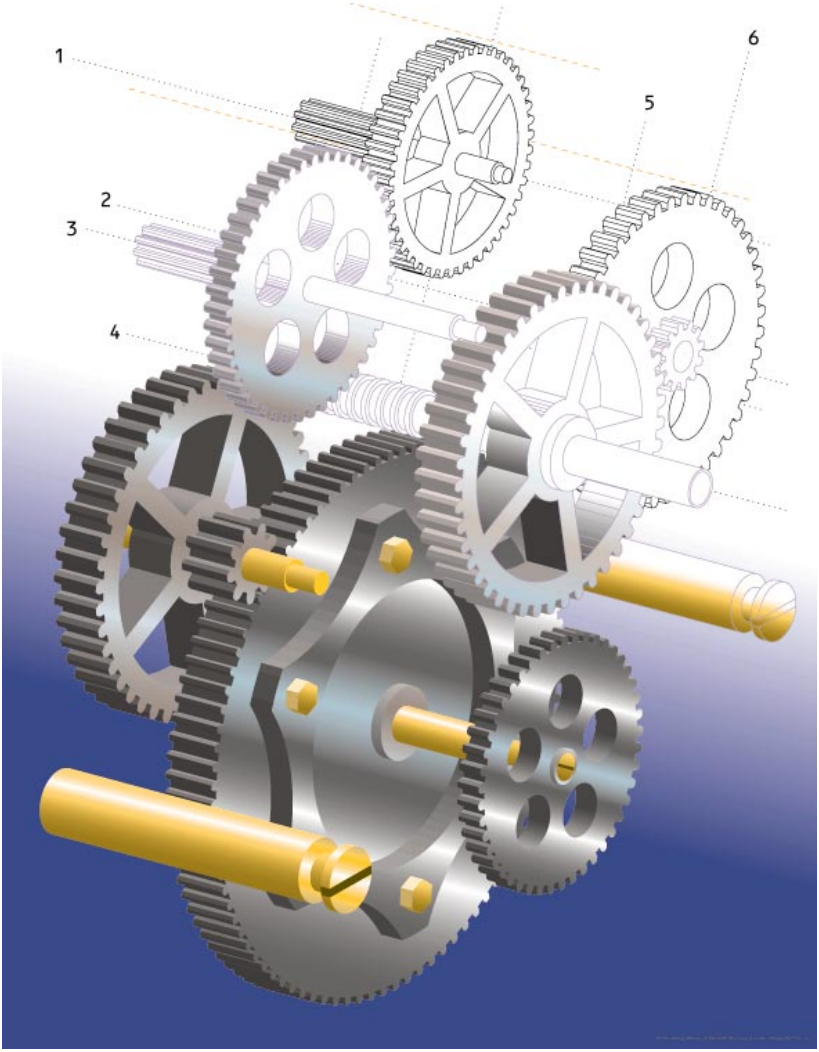
HP DesignJet 700 and HP DesignJet 750C Plus Plotters

Quick Reference Guide



About This Edition

Edition dates are as follows:

First edition, September 1996

New editions are complete revisions of the document. Change sheets, which may be issued between editions, contain additional information. The dates on the title page change only when a new edition is published. Minor corrections that do not affect the function of the product may be made at reprint without a change to the print date.

Many product updates and fixes do not require document changes and, conversely, corrections to user documentation may be made without accompanying product changes. Therefore, do not expect a one–to–one correspondence between product updates and document revisions.

Quick Reference Guide

HP DesignJet 700 and
HP DesignJet 750C Plus Plotters
C4507A, C4706A, C4708A C4709A

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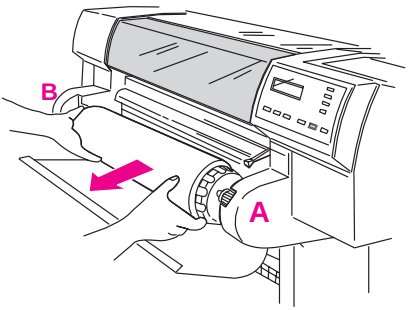
Loading and Unloading Media

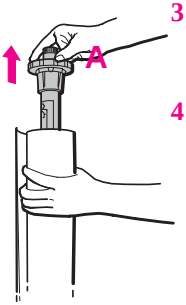
To Change a Roll of Media

Make sure the plotter wheels are locked, by firmly pressing down the brake levers on the wheels.

1 Remove any unused media from the media path as shown on page 7.

2 Remove the **old roll** by pulling firmly on each end of the spindle.

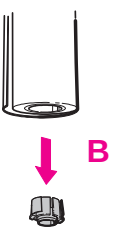




3 Rest the old roll upright on the floor with media stop (A) at the top.

4 Pull out the media stop/spindle and set it aside.

5 Remove the end–cap (B) from the other end of the old roll.



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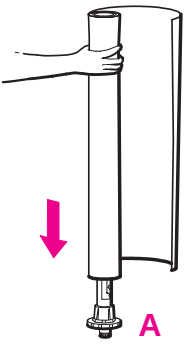
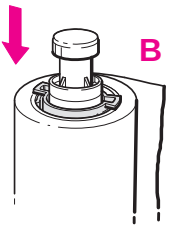


6 Rest the spindle upright on the floor with media stop (A) at the bottom

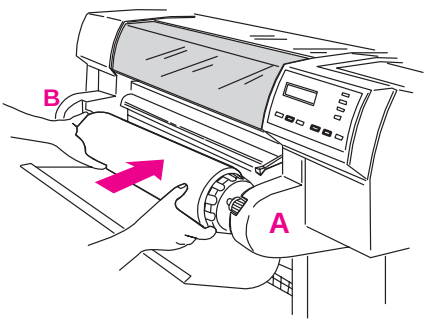
7 Place the new roll on the spindle, so that the media's leading edge winds *clockwise*, viewed from above.

If the media stop (A) falls off, push it back in until it snaps into position.



8 Push the end–cap back in, so that the tabs are flush against the end of the roll.

9 Insert the spindle with media stop (A) to the right and end–cap (B) to the left. Push in firmly on both ends, making sure the media remains flush against media stop (A).



The media should wind up from behind the roll.

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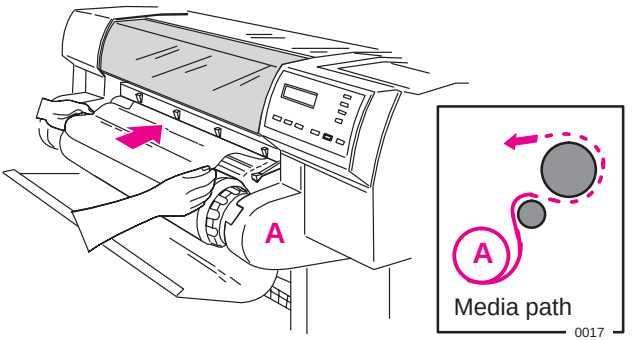
To Load Roll Media

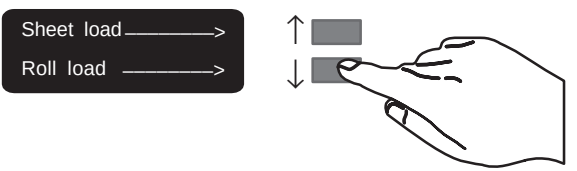
1 Hold the media by both edges and align its right edge with the perforated line on the entry platen.

2 Insert the media into the plotter, until it buckles slightly.

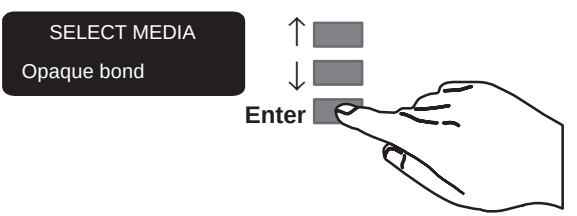


3 When the plotter begins to pull in the media, let it go.

4 Press ↓ next to the front-panel display to indicate you are loading roll media.



5 Scroll until the display shows the type of media you are loading*, and then press the **Enter** key.



*For advice on media types, see pages 12 and 13.

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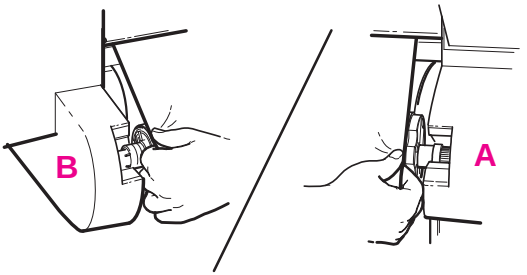
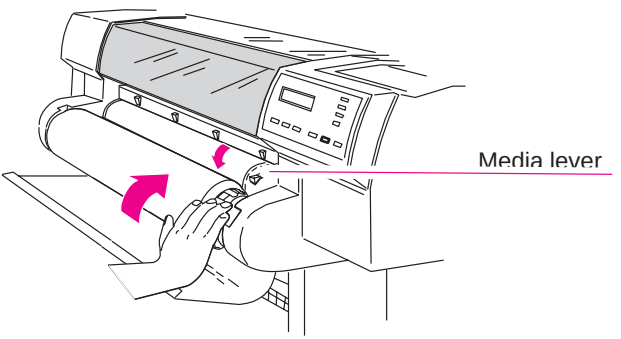
6 When the display tells you to, lift the media lever.

7 Take hold of the edges of the media now extending from the exit slot and pull it toward you until taut. Then align its edges with those of the roll.



8 When the display tells you to, lower the media lever.

9 When the display tells you to close the roll cover, take up any slack by turning the media stop in the direction of the large arrow. Close the cover, keeping the leading edge of the media outside.



10 Press ↓ to continue.

The plotter trims off the first few inches of media.

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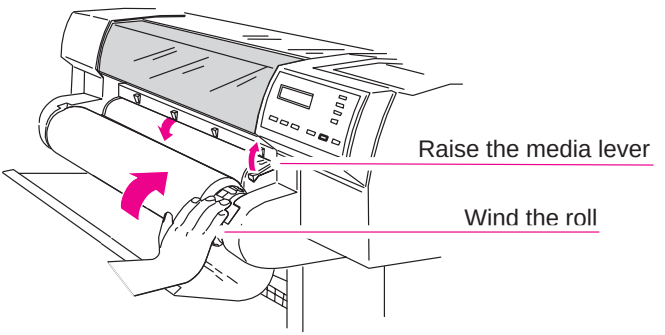
To Unload a Plot on Roll Media

When you use roll media, the plotter automatically waits until the required drying time has elapsed before cutting the media and dropping the plot into the media bin. If you wish to adjust the drying times, refer to the *User's Guide*.

To Unload Unused Roll Media

1. Raise the media lever to release the media.
2. Open the roll cover and turn the media stop to wind the media out of the plotter and onto the roll.



3. Lower the media lever.

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Supported Media Sizes and Margin Settings

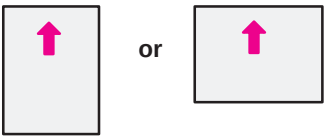
Media Width (Carriage Axis)	Media Length (Paper Axis)
E/A0–size plotter: 190—917 mm (7.5 in—36.1 in)	Roll: 210 mm—15.2 m (8.3 in—50 ft)
D/A1–size plotter: 190—625 mm (7.5 in—24.6 in)	Sheet: 210 mm—1.6 m (8.3 in—64 in)

Leading and Trailing Edges	Side Margins
Normal: 17 mm (0.67 in)	5 mm (0.2 in)
Smaller (roll media only): 10 mm (0.39 in)	5 mm (0.2 in)

All the above measurements are ± 2 mm (0.08 in). For plotting area (media size minus margins) see *User's Guide*.

To Load a Sheet

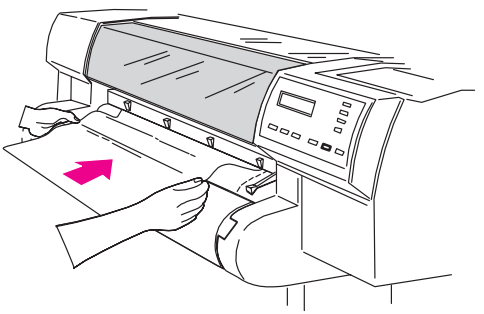
You can load a sheet in either portrait or landscape orientation:



Note: If you are using the Rotate option (see *User's Guide*), this will influence the orientation of your print.

The plotter prints on the *underside* of the sheet. If the two sides of your media are different, make sure the printing side is underneath (see page 9).

1. Make sure the media lever is down and the roll cover is closed.
2. Hold the sheet by the sides and align the right edge with the perforated line on the entry platen.
3. Insert the media until it buckles slightly.



4. When the plotter begins to pull in the sheet, let it go.

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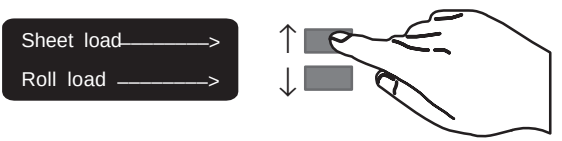
Press ↑ next to the front-panel display to indicate you are loading a sheet.



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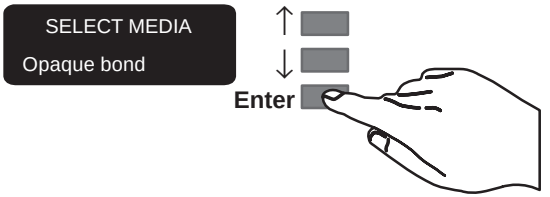
Scroll until the display shows the type of media you are loading*, and then press the **Enter** key.



The plotter checks the sheet's size and alignment, then advances it to the start of the page. When loading is complete, the "STATUS / Ready" screen is displayed.

*For advice on media types, see page 12.

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If you have difficulty in loading a sheet, see the "Troubleshooting" section in the *User's Guide.*

To Load Media the Right Way Up

Media Type	Media-Loading Tips
Opaque bond Translucent bond Natural tracing paper Vellum	Both sides are the same. If the sheet is curled, load with the convex (hollow) side toward you.
Coated paper Heavy coated paper	Load with the coated side underneath. On HP Coated Paper and Heavyweight Coated Paper, look for the small notch in the corner: • When loading in portrait orientation, make sure the notch is on the right side of the leading edge. • When loading in landscape orientation, make sure the notch is on the left side of the leading edge.
Matte film	Load with the matte side underneath.
Clear film	Load with the rougher side underneath.
High-gloss photo paper* Semi-gloss photo paper* High-gloss film*	Load with the glossy side underneath.

*These media types are not supported by the HP DesignJet 700 plotters C4705A and C4706A.

To Unload a Sheet after Plotting

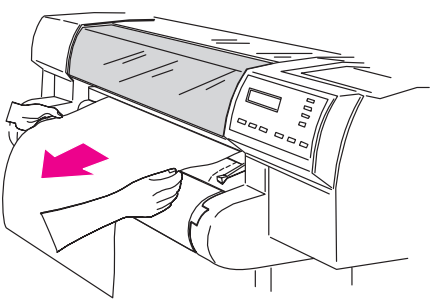
Wait until the appropriate drying time has passed (see table below).

Notice that you can unload some media types immediately.

Typical Drying Times (Minutes)		
	Print Quality	
Media Name on the Front-Panel Display	Fast	Normal or Best
Opaque bond	0.5	1.0
Translucent bond	0.5	1.0
Nat. Tracing paper	0.5	1.0
Vellum	1.0	2.0
Coated paper	0	0.25
Coated heavy paper	0	0.25
Matte film	Not recommended	2.0
Clear film		2.0
High-gloss photo*		4.0
Semi-gloss photo*		4.0
High-gloss film*		4.0

*These media are not supported by the HP DesignJet plotters C4705A and C4706A.

Once the drying time is over, gently pull the sheet out of the plotter.



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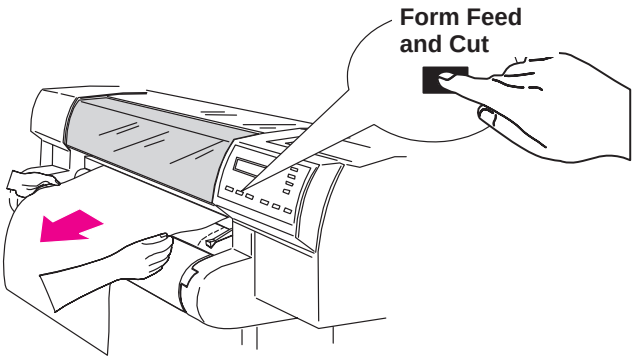
To Remove an Unused Sheet

Either ...

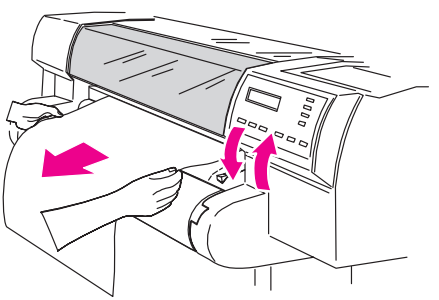
1. Press **Form Feed and Cut.**
2. When the plotter has finished feeding out the sheet, pull it out.



1842a

or ...

1. Lift the media lever.
2. Pull out the sheet.
3. Lower the media lever.



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Supported Media Types

Name on Display	Other Names for This Media Type	Available from HP As...	Cost
Opaque bond	Plotter paper	HP Opaque Bond	Low
Translucent bond		HP Translucent Bond	Low
Nat. Tracing paper	Natural tracing paper Tracing paper Extra translucent bond	HP Natural Tracing Paper YHP Tracing Paper	Med
Vellum		HP Vellum	Med
Coated paper	Special paper Special inkjet paper Color inkjet paper Matte paper Presentation	HP Coated Paper for the HP DesignJet 750C **Note:** HP Special Inkjet Paper is *not* supported.	Low/ Med
Heavy coated paper	Heavyweight coated paper Heavyweight special paper Heavyweight inkjet paper Heavyweight color inkjet paper Heavyweight matte paper	HP Coated Heavyweight Paper for the HP DesignJet 750C **Note:** HP Heavyweight Special Inkjet Paper is *not* supported.	Med
Matte film	Matte polyester Poly matte film Mylar	HP Matte Film	High
Clear film	Translucent film Clear polyester	HP Clear Film	High
High-gloss* photo	High-gloss photo paper High-gloss paper	HP Premium-Gloss Photo Paper HP High-Gloss Photo Paper	High
Semi-gloss* photo	Semi-gloss photo paper Semi-gloss paper	HP Semi-Gloss Photo Paper	High
High-gloss* film	High-gloss white film	HP High-Gloss White Film	High

*These media are not supported by the HP DesignJet 700 plotters, C4705A and C4706A.

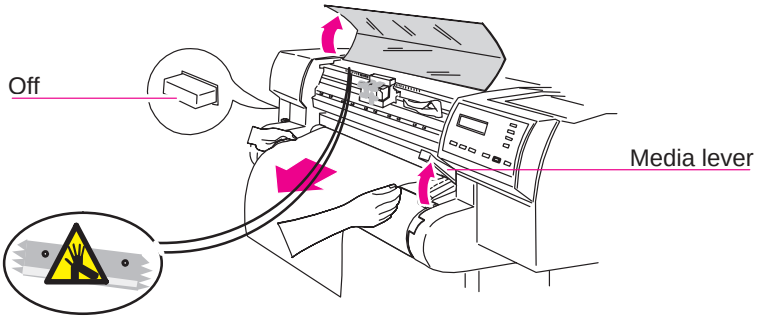
Media Characteristics and Print Quality Selection

Media Type Name on Front-Panel Display	Media Characteristics				Typical Application and Choice of Print Quality for Media T (Print Quality: F=Fast, N=Normal, B=Best)									
					Color CAD[1] and GIS[2]				Mono CAD				Color Image	
	Opaque/ Semi–Opaque Clear	Matte/ Glossy	Special side for printing?	Support for color?	Draft	Final version	Archive	Overlay	Draft	Final version	Archive	Diazo	Matte print	Gloss
Opaque bond	Opaque	Matte	No	CAD only	F,N				F,N	N,B			F,N,B[3]	
Translucent bond	Semi–	Matte	No	No					F,N			N,B		
Nat. Tracing paper	Semi–	Matte	No	CAD and HP media only	F,N				F,N			N,B		
Vellum	Semi–	Matte	No						F,N		B	N,B		
Coated paper	Opaque	Matte	Yes	Yes		N,B							F,N,B	
Heavy coated paper	Opaque	Matte	Yes	Yes		N,B							N,B[4]	
Matte film	Semi–	Matte	Yes	Yes		N,B	B			N,B	B	N,B		
Clear film	Clear	–	Yes	Yes		F,N	N	F,N		N,B	B			
High-gloss photo*	Opaque	Glossy	Yes	Yes										N,B
Semi-gloss photo*	Opaque	Glossy	Yes	Yes										N,B
High-gloss film*	Opaque	Glossy	Yes	Yes										N,B

[1] Computer–Aided Design, [2] Geographical Information Systems, [3] Draft only, [4] For durability, [5] Color accuracy not guaranteed for this media type * Not supported by the

Clearing a Media Jam

1 Switch OFF the plotter, open the window and raise the media lever.



WARNING **Don't touch the stainless steel strip behind the cartridge carriage; it is very sharp. Keep hair, jewelry, clothing, and foreign objects away from plotter mechanisms.**

CAUTION **When moving the cartridge carriage, touch only the black plastic parts.**

2 Carefully move the cartridge carriage out of the way.

If the plotter was cutting when it jammed, the cutter carriage will move with it.

3 Carefully remove any of the jammed media which you can easily lift *up and out.*

4 Carefully pull the rest of the roll or sheet *down and out of the media entry slot.*

5 Lower the window and the lever and switch on the plotter. Press the **Form Feed and Cut** key to eject any pieces of media still in the media path.

6 Reload the media

1867

Controlling the Print Quality

You can set the overall print quality from the front panel.

To Change the Print Quality Setting

Use the front-panel **Print Quality** key to switch between the three print quality settings.

If you are using the AutoCAD or Windows drivers supplied with the plotter, the print quality setting (or an equivalent) within the driver will override the front-panel setting; *the front-panel light which is illuminated will change accordingly until this print job is finished.*

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Changing the setting affects all plots, including the plotter's internal sample plots, except those that are already in the plotter's queue.

Your print quality setting affects both the speed and the cost of plotting—as shown in the table below.

Print Quality Setting	Fast	Normal	Best
Speed			
Ink Used			

Print quality also varies according to

- your specification of the media type (see the table on page 13)
- drying time—decreasing it may reduce print quality
- *in the case of the HP DesignJet 750C Plus only,* whether Sharp Lines is active or not. The use of the Sharp Lines resolution enhancement feature usually improves plot quality, as shown in the table on the next page. (You may wish to experiment with the Sharp Lines feature—see the *User's Guide* for full details.)

Print Resolution

The resolution at which your plot will be printed depends on a number of factors. The main points are summarized in the table below. For full details see the *User's Guide.*

Print Quality Setting	Resolution in Dpi		
	DesignJet 750C Plus		DesignJet 700
	Monochrome	Color[1]	Monochrome
Fast	300 x 300	300 x 300	300 x 300
Normal	600 x 600	300 x 300	600 x 600
Best	600 x 600	600 x 600[2]	600 x 600

[1] With HP RTL and PostScript, if installed, color resolution is always 300 x 300.

[2] Addressable 600 dpi using Sharp Lines for vector graphics in HP–GL/2 plots on opaque bond, coated paper and matte film only.

Managing Your Plots

To Use the Queue to Manage Your Plots

When the Queue option in the front-panel menus is set ON (the default), the plotter stores your plots by *page*. One plot file may contain several pages.

With queueing turned ON, you can send plots to the plotter while the current page is still printing and use the nesting feature, if required.

The Queue mgmt front-panel menu provides a Page ID option which allows you to identify a page in the queue and:

- display its statistics (Statistics option),
- prioritize it (Move to top option),
- delete it (Delete page option),
- replot it (Copies option).

If you turn off queueing with pages in the queue, they will continue to be plotted (and nested, if nesting was on), until the queue is empty.

For further information on queueing, see the *User's Guide*.

To Use Nesting to Save Media

Nesting is available with roll media only and with queueing turned ON,

If you set Nest to either Optimal or In order in the front-panel menus, the plotter automatically attempts to minimize media usage by plotting pages side by side.

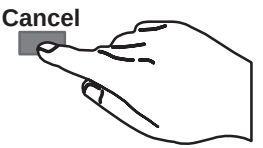
If it is more efficient, pages may be rotated (regardless of the front panel's Page format/Rotate setting).

To give the plotter the best chance of nesting the most pages, it is best if you set Page format / Margins to Smaller in the front-panel menus.

For further information on nesting, see the *User's Guide*.

To Cancel a Plot

Press **Cancel** on the front panel.



The plotter advances the media as though the plot were finished.

If queueing is on and there is space in the queue, the cancelled plot is placed in the queue.

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To Replot or Delete a Plot

In the case of the HP DesignJet 700 only, press **Replot** on the front panel.

You can also replot a page in the queue (including a cancelled plot) by using the front-panel Copies option from Queue mgmt/Page ID.

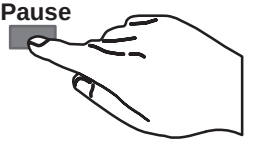
You can delete a page from the queue using the front-panel Delete option accessible from Queue mgmt/Page ID.

For further information on these features, see the *User's Guide*.

To Pause while Printing a Series of Plots

You can pause between two plots already sent from your computer, for example to change the media type or replace the cartridges. You can use the front panel as normal during the pause.

Press **Pause** on the front panel.



The plotter finishes the current plot and pauses (with the **Pause** light on).

To resume printing, press **Pause** again.

0027

Replacing Cartridges

To Access the Cartridges

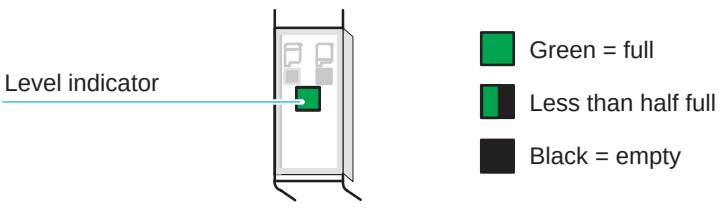
1 Leave the plotter switched ON.

2 If you are responding to a Service cartridges request, press the ↑ key, otherwise, press the **Access Cartridges** key. When the cartridge carriage is not in use, it moves out so you can access it.

3 When the carriage stops, open the window.

WARNING **The stainless steel strip behind the cartridge carriage is very sharp. Keep hair, jewelry, clothing, and foreign objects away from plotter mechanisms. Keep new or used cartridges away from children.**

To Check a Cartridge's Ink Level



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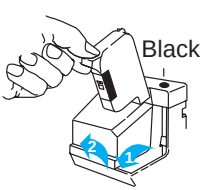
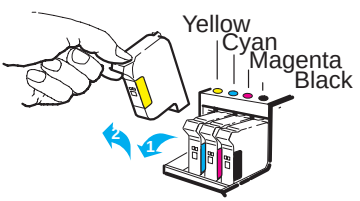
To Remove a Cartridge

Press down lightly on the cartridge and pull it toward you. Lift it out of its stall. Discard it, if it is not required.



DesignJet 700



DesignJet 750C Plus

A dot above the stall indicates the color of the cartridge.

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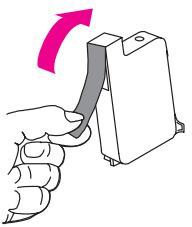
To Load a Cartridge

CAUTION **Always load cartridges *with the plotter switched ON*. When handling cartridges, or the cartridge carriage, touch only the black plastic parts.**

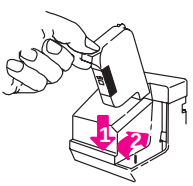
1754

1 Match the color of the cartridge label with that of the dot above the stall.*

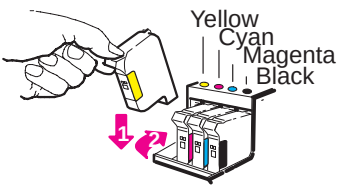
2 If the cartridge is new, remove the protective tape and tab from its nozzles.



3 Press the cartridge lightly down into the stall and away from you until it snaps into place.



DesignJet 700



DesignJet 750C Plus

r004

If the front panel displays Reseat cartridge(s), repeat removing and installing the cartridge until the message disappears.

4 When you have finished, close the cover. The plotter runs the cartridge-alignment procedure. When the front-panel displays STATUS / Ready, the procedure is complete.

0019

* Users with color-vision deficiencies can identify the colors by the part numbers on the boxes – see the Accessories List in the *User's Guide*.

The Front Panel

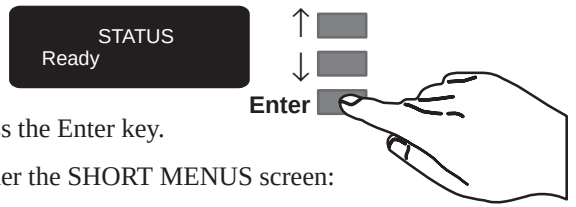
To Use the Front-Panel Display Keys

The front-panel display is used to show the front-panel menus and messages. For explanations of the messages, see the *User's Guide*.

Interaction with the display, for instance to obtain the front-panel menus, is via the display keys. A tutorial on their use is given in the *User's Guide*.

To Enter the Menu System

1 With a STATUS screen displayed, for instance:



press the Enter key.

Either the SHORT MENUS screen:

Only menus coloured yellow in the Front-Panel Menus structure, on pages 22 to 24, are accessible.

or the FULL MENUS screen:

All menus accessible.

is displayed, with the Queueing & Nesting option shown.[1]

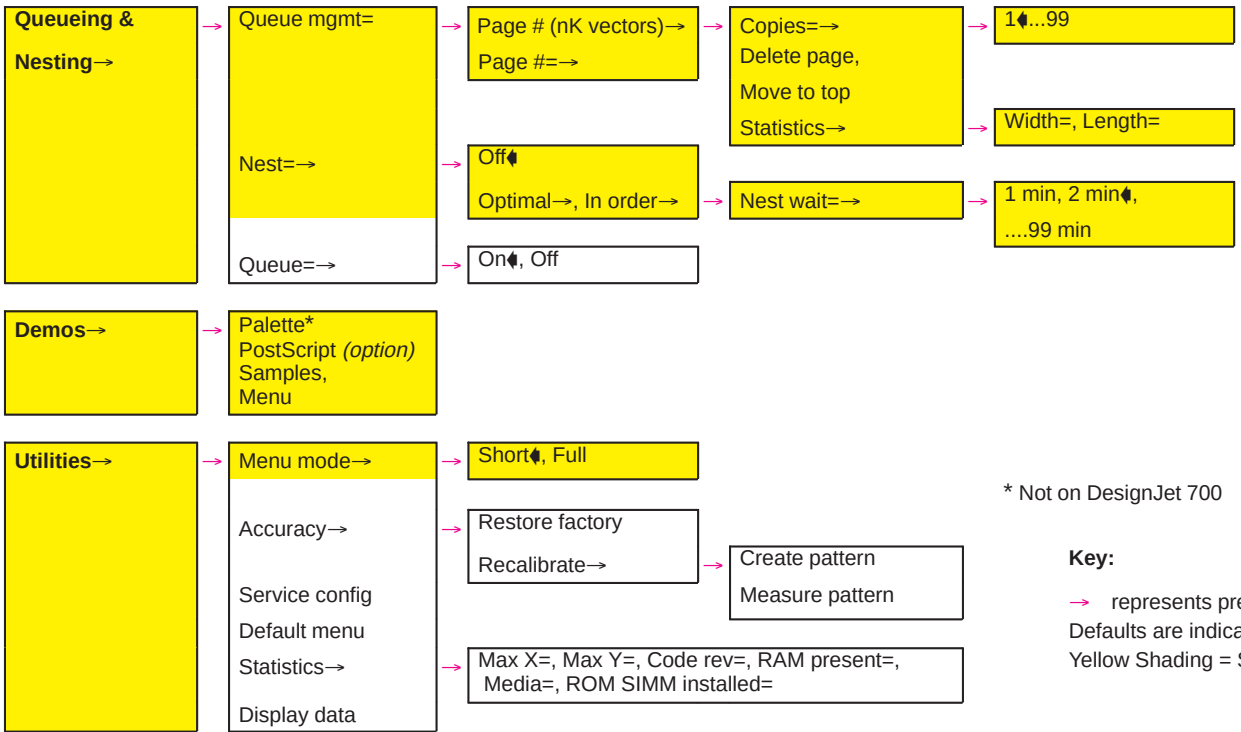
2 Change to full menu mode, if necessary (see the *User's Guide*).

3 You are now in the first-level menu of the front-panel menu system. The structure of this is shown in the next section.

[1] You may not be able to access the menu system *immediately*, if the current task overrides it. If this happens, wait until the task is completed and try again.

0014

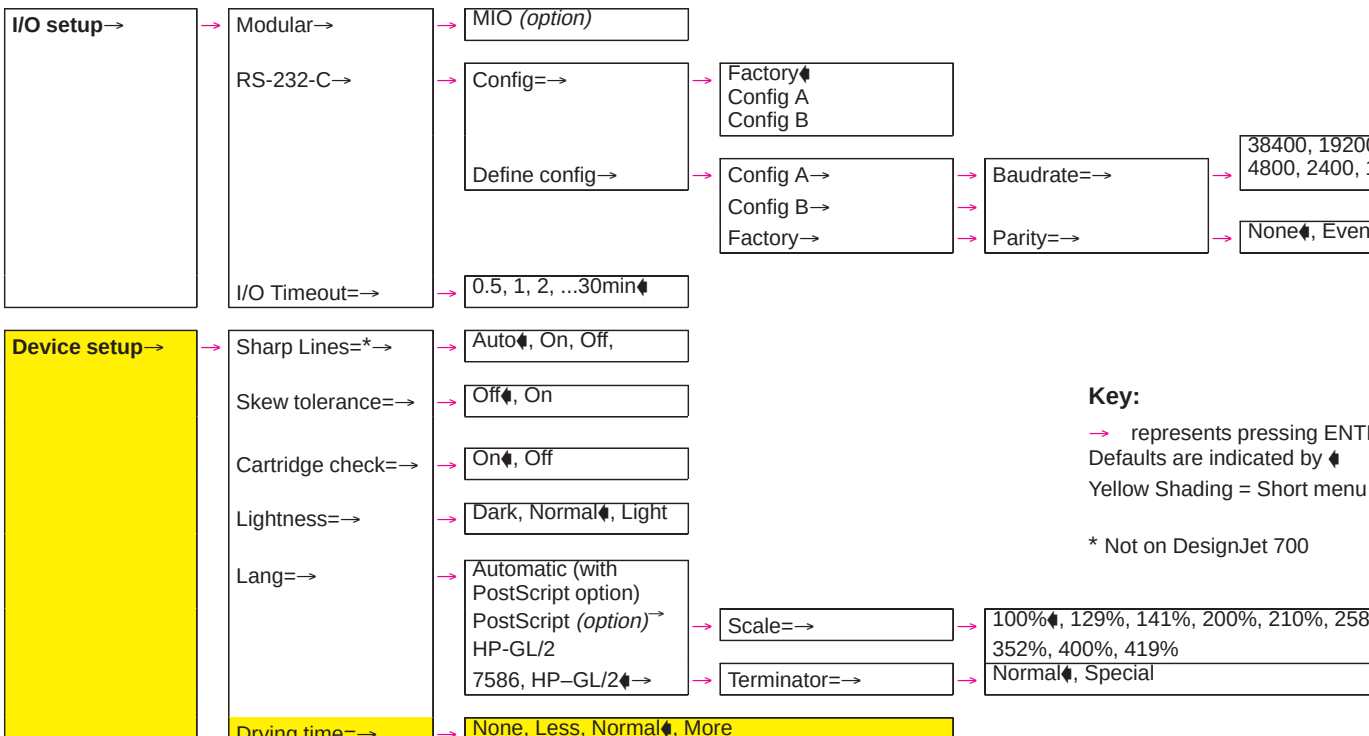
Front-Panel Menu Structure



* Not on DesignJet 700

Key:

→ represents pressing ENTER
Defaults are indicated by ◆
Yellow Shading = Short menu



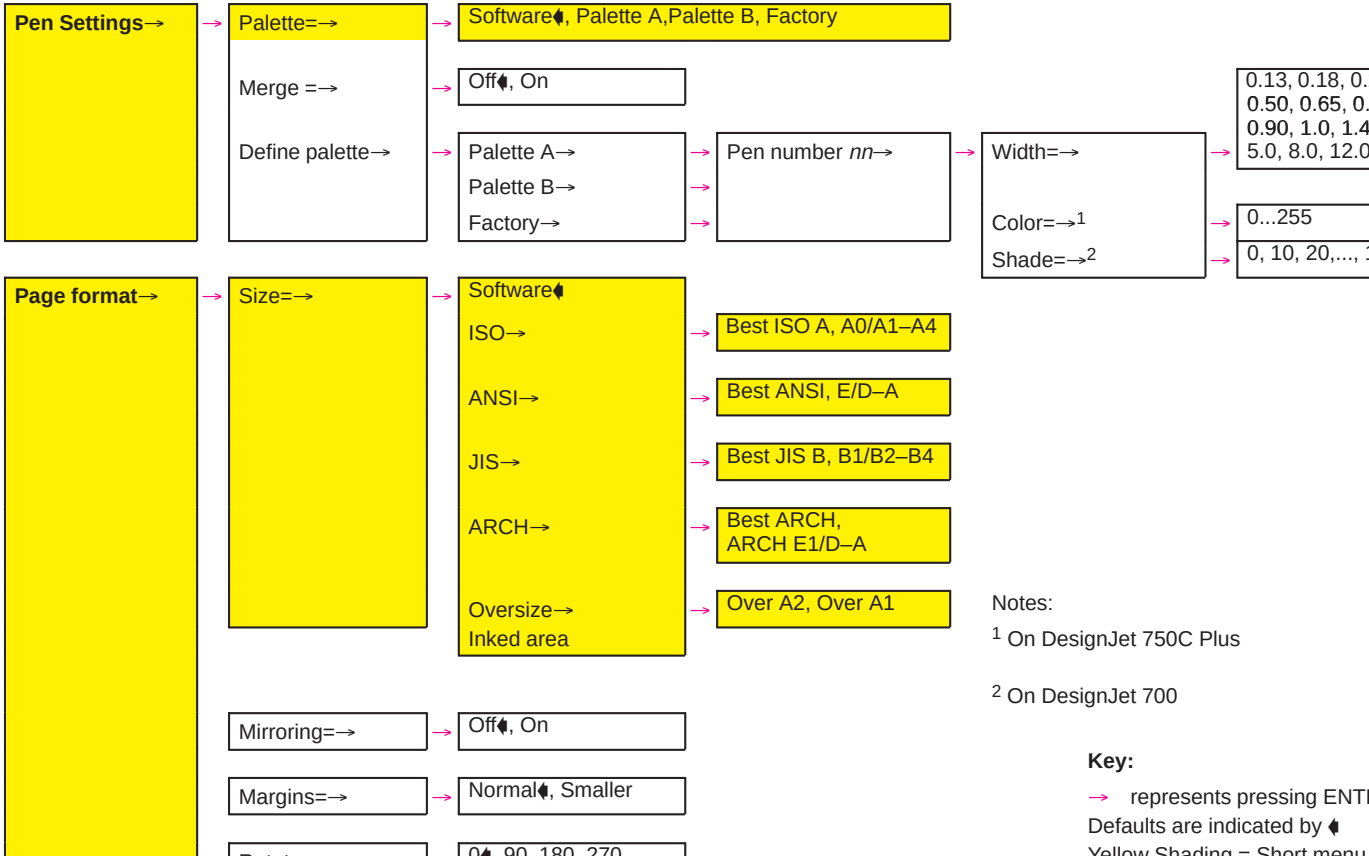
Key:

→ represents pressing ENTE
Defaults are indicated by ◆
Yellow Shading = Short menu

* Not on DesignJet 700

Continued.....

.....Continued



Notes:

[1] On DesignJet 750C Plus

[2] On DesignJet 700

Key:

→ represents pressing ENTE

Defaults are indicated by ⧫

Yellow Shading = Short menu

Where to Find Out More

The following table will assist you in finding further information on the topics covered in this Quick Reference Guide and on other topics covered elsewhere in your plotter's documentation.

Where to Go to Find Further Information	
To Find How To ...	**Go to User's Guide, ...**
install and connect the plotter	▶ chapter 1
set up your software	▶ chapter 1
print a sample plot	▶ chapter 1
use the front panel (tutorial)	▶ chapter 2
navigate the menu system (tutorial)	▶ chapter 2
choose media	▶ chapter 3
load or unload media	▶ chapter 3
replace the cartridges	▶ chapter 3
control your plot's page format	▶ chapter 4
adjust the margins	▶ chapter 4
change your plot's appearance	▶ chapter 5
manage plots before or during printing	▶ chapter 6
manage the queue	▶ chapter 6
nest your plots	▶ chapter 6
see your plotter's current configuration	▶ chapter 7
reconfigure your plotter	▶ chapter 7
solve a problem (troubleshooting)	▶ chapter 9
interpret a front-panel message	▶ chapter 10
see the plotter's or related specifications	▶ chapter 11
order accessories	▶ chapter 11
see the plotter's or related documentation	▶ documentation map

To Find Any Other Information ...	▶ **Go to the Index *at the Back* of the User's Guide**

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For trademark information, legal notices, safety notices and warranty information, refer to the User's Guide, C4705-90031.

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