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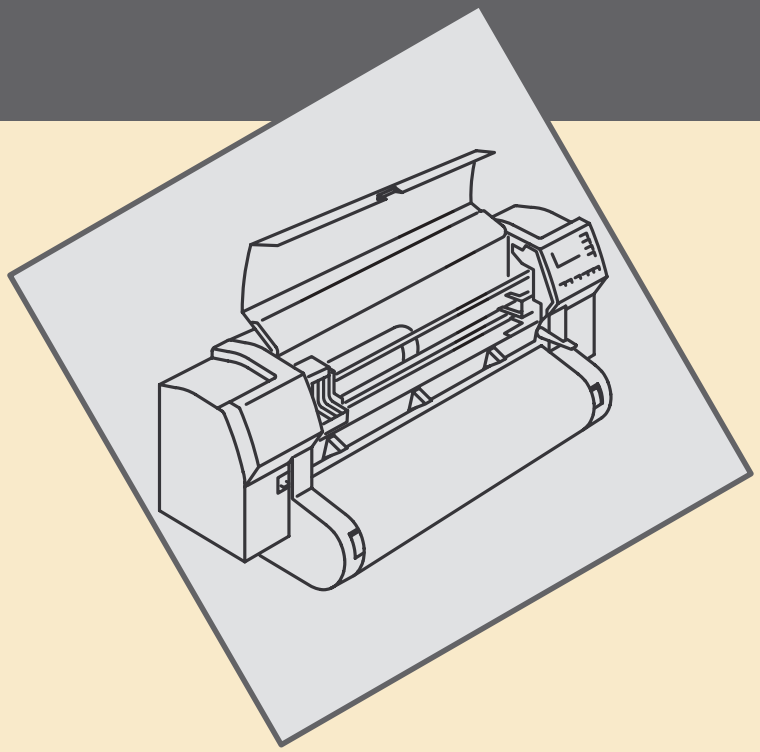

Service Manual

HP DesignJet 700,
HP DesignJet 750C,
HP DesignJet 750C Plus and
HP DesignJet 755CM
Plotters/Printers

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HP internal order number C4705-90000

Second edition, August 1996

Printed in U.S.A.

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WARNING

The procedures described in this manual are to be performed by HP-qualified service personnel only.

Electrical Shock Hazard

Serious shock hazard leading to death or injury may result if you do not take the following precautions:

- Ensure that the ac power outlet (mains) has a protective earth (ground) terminal.
- Disconnect the plotter from the power source prior to performing any maintenance.
- Prevent water or other liquids from running onto electrical components or circuits, or through openings in the enclosure.

Electrostatic Discharge

Refer to the beginning of Chapter 6 of this manual, for precautions you should take to prevent damage to the plotter circuits from electrostatic discharge.

Safety Symbols

General definitions of safety symbols are given immediately after the table of contents.

Learning Products, Barcelona Division

Hewlett-Packard Española, S.A.
Avda. Graells, 501
08190 Sant Cugat del Vallès
Spain

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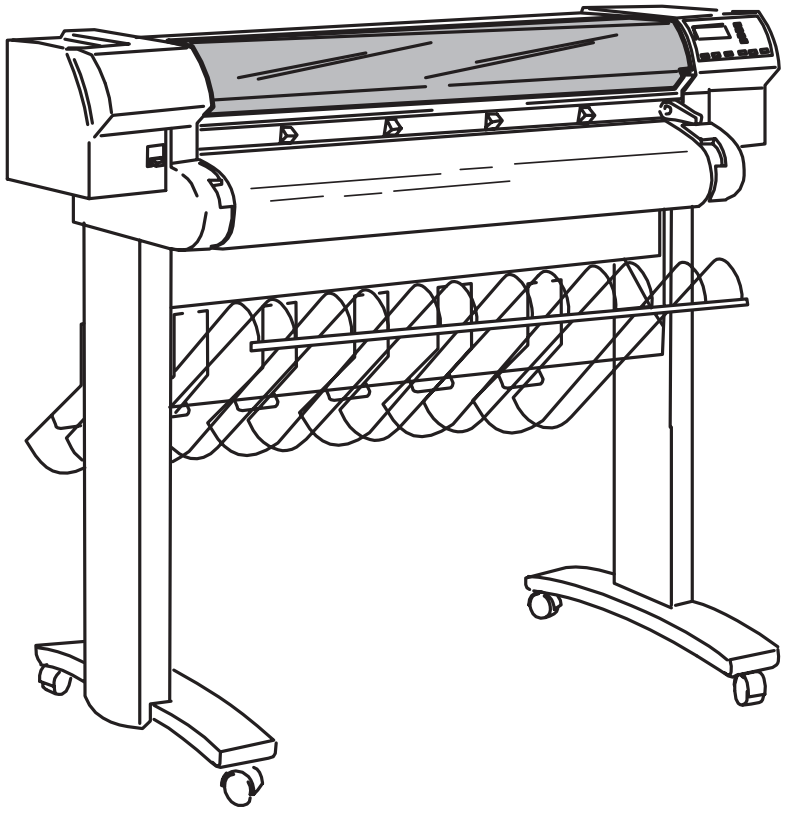
Service Manual



HP DesignJet 700
HP DesignJet 750C
HP DesignJet 750C Plus and
HP DesignJet 755CM
Plotters/Printers

Using this Manual

Purpose

This manual contains information necessary to test, calibrate and service:

- HP DesignJet 700 plotters (models C4705A and C4706A)
- HP DesignJet 750C plotters (models C3195A and C3196A)
- HP DesignJet 750C Plus plotters (models C4708A and C4709A)
- HP DesignJet 755CM printers (models C3198A and C3198B)

For information about using these plotters/printers, refer to the corresponding user and quick-reference guides.

Readership

The procedures described in this manual are to be performed by HP-certified service personnel only.

Training

The HP ongoing training course CEV2-TIJ provides training for HP Customer Engineers and Authorized Dealers, on servicing the complete HP DesignJet series of large-format, thermal-inkjet plotters.

Part Numbers

Part numbers for plotter options, accessories and service parts are located in chapter 10.

Conventions

This manual contains information for the monochrome HP DesignJet 700 plotters, the color HP DesignJet 750C and 750C Plus plotters and the color HP DesignJet 755CM printers. To highlight the differences between the various plotters/printers the following symbols will be used in the left margin:

This symbol indicates the information specific only to a particular plotter/printer. The symbol will contain the name(s) of the plotter(s) that it is referring to.

750C Plus Example: This text is applicable only to the HP DesignJet 750C Plus.

All other information not marked by these symbols is applicable to all plotters.

The term **D/A1-size plotters** refers generically to models C4705A, C3195A and C4708A
The term **E/A0-size plotters** refers generically to models C4706A, C3196A, C4709A, C3198A and C3198B.

A small arrow ➧ is used to indicate other parts of the Service Manual or User's Guide where you can find information related to the topic you are consulting.

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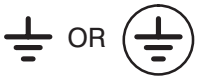
General Definition of Safety Symbols

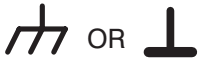
International caution symbol (refer to manual): the product is marked with this symbol when it is necessary for the user to refer to the instruction manual in order to protect against damage to the instrument.

Indicates dangerous voltage (terminals fed from the interior by voltage exceeding 1000 volts must also be marked).



Protective conductor terminal. For protection against electrical shock in case of a fault. Used with field wiring terminals to indicate the terminal that must be connected to ground before operating equipment.

Low-noise or noiseless, clean ground (earth) terminal. Used for a signal common, as well as providing protection against electrical shock in case of a fault. A terminal marked with this symbol must be connected to ground in the manner described in the installation (operating) manual, and before operating the equipment.



Frame or chassis terminal. A connection to the frame (chassis) of the equipment, which normally includes all exposed metal.

Alternating current

Direct current

Alternating or direct current

WARNING

The WARNING sign denotes a hazard. It calls attention to a procedure, practice, or the like, which, if not correctly performed or adhered to, could result in personal injury.

Take care not to cut yourself on the encoder strip inside the plotter.

CAUTION

The CAUTION sign denotes a hazard. It calls attention to an operating procedure, practice, or the like, which, if not correctly performed or adhered to, could result in damage to or destruction of part or all of the product.

1

Product Information

Description

Applications

The HP DesignJet 700 (monochrome), HP DesignJet 750C and 750C Plus (color) and HP DesignJet 750CM are large-format, ink-jet plotters/printers that print output from software applications, on paper and other media.

The plotters/printers produce large-format plots of high resolution and quality for the following sectors:

- Computer-aided design (CAD)
- Computer-aided manufacturing (CAM)
- Mapping
- Mechanical and architectural drawing
- General drafting

Drivers

Software drivers for the following applications are supplied with the plotters:

- AutoCAD for DOS
- AutoCAD for Windows
- MicroSoft Windows Applications

(Other application software ➧ User's Guide, chapter 1.)

Graphics Languages

The plotters accept drawing data in the following graphics languages:

- Hewlett-Packard Graphics Language (HP-GL), a vector language.
- HP-GL/2, an enhanced version of HP-GL.
- Hewlett-Packard Raster Transfer Language (HP-RTL), a raster language.

The plotters support HP-GL/2 with both the roman and the Japanese Kanji character sets (provided the Kanji ROM SIMM is fitted). PostScript is also available when the Postscript upgrade is fitted.

Device-Control Languages

The plotters support the following languages, enabling the user to read certain plotter settings from the computer:

- Printer Job Language (PJL)
- Printer Management Language (PML)

Interface

The plotter has both RS-232-C and Centronics/Bi-Tronics interfaces.

Network Connections

The following network operating systems are supported through an optional MIO external network interface:

- Novell Netware (Ethernet)
- LAN Manager
- Token Ring network
- Apple LocalTalk
- HP external controller
- TCP/ICP host work station
- Ethertalk

Memory

700

DesignJet 700 plotters have 5.5 MB of standard on-board RAM. A PostScript SIMM and an MIO card are optional. There are also two RAM expansion sockets, which can hold an optional 4MB, 8 MB, 16 MB or 32 MB single in-line memory module (SIMM). The maximum RAM is therefore 69.5 MB.

750C *Plus*

DesignJet 750C Plus plotters have 8 MB of standard on-board RAM, plus an additional 3 MB used internally. A PostScript SIMM and an MIO card are optional. There are also two RAM expansion sockets, which can hold an optional 4 MB, 8 MB, 16 MB or 32 MB single in-line memory module (SIMM). The maximum RAM is therefore 72 + 3 MB.

750C

DesignJet 750C plotters have 4 MB of standard on-board RAM, plus an additional 3 MB used internally. A PostScript SIMM and an MIO card are optional. There are also two RAM expansion sockets, which can hold an optional 4MB, 8 MB, 16 MB or 32 MB single in-line memory module (SIMM). The maximum RAM is therefore 68 + 3 MB.

755 CM

DesignJet 755CM printers (Model C3198A) have 4 MB of standard on-board RAM, plus an additional 3 MB used internally. In addition, the Postscript SIMM, the MIO card and two 32 MB SIMMs are pre-installed in the standard configuration. Therefore the total amount of useable RAM is 68 MB.

DesignJet 755CM printers (Model C3198B) have 8 MB of standard on-board RAM, plus an additional 3 MB used internally. In addition, the Postscript SIMM, the MIO card and two 32 MB SIMMs are pre-installed in the standard configuration. Therefore the total amount of useable RAM is 72 MB.

Accuracy

The accuracy of the plotters in drawing a vector is ± 0.38 mm (0.015 in) or ± 0.2% of the specified vector length, whichever is greater, at 23 °C (73 °F) at 50-60% relative humidity, on HP special polyester film.

Resolution

The resolution of the plotter output is measured in dots per inch (dpi). The plotter resolutions for different plot-quality settings are as follows:

750C 755 CM

Note: This table is for DesignJets 750C and 755CM (model C3198A).

Plot/Print Quality	Monochrome	Color
Fast	300 x 300 dpi	300 x 300 dpi, dot depleted
Normal	600 x 600 dpi	300 x 300 dpi
Best	600 x 600 dpi	300 x 300 dpi (But 600 x 600 dpi for black with HP RTL)

750C *Plus* 755 CM

Note: This table is for DesignJets 750C Plus and 755CM (model C3198B).

Plot/Print Quality	Monochrome	Color
Fast	300 x 300 dpi	300 x 300 dpi, dot depleted
Normal	600 x 600 dpi	300 x 300 dpi
Best	600 x 600 dpi	600 x 600 dpi addressable

700

Plot/Print Quality	Monochrome
Fast	300 x 300 dpi
Normal	600 x 600 dpi
Best	600 x 600 dpi

Media Types (See also ➧ HP Media Reference Guide)

Monochrome Plotting	Color Plotting
Plain paper and plotter paper	HP special inkjet paper
Plain vellum (HP preferred)	
Plain translucent paper (HP preferred)	
HP single-matte polyester film	

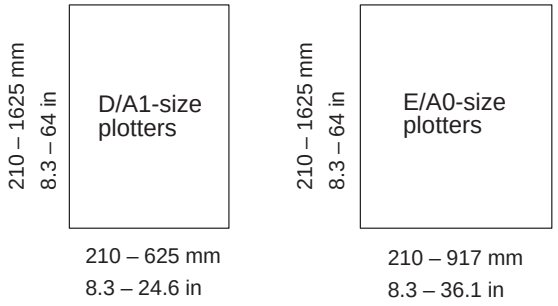
For additional media types available ➧ User's Guide, chapter 3, § *Choosing media.*

Media Sizes

The plotters handle sheet media and roll media. Supported standard sizes are as follows:

	D/A1-size plotters	E/A0-size plotters
ANSI	A, B, C, D	A, B, C, D, E
ISO	A4, A3, A2, A1	A4, A3, A2, A1, A0
Metric Oversize	A2, A1	A2, A1, A0
Architectural	C, D	C, D, E, E1
JIS	A4, A3, A2, A1 B4, B3, B2	A4, A3, A2, A1, A0 B4, B3, B2, B1, B0

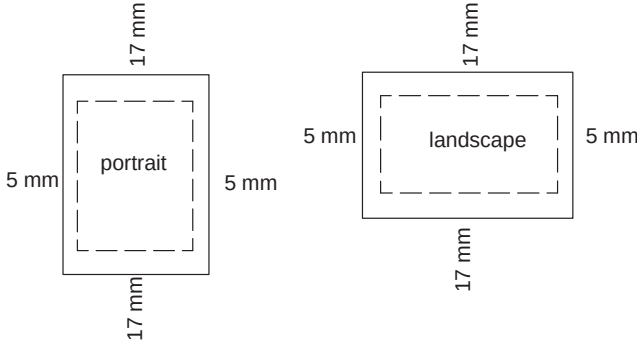
Sheet media must not exceed the maximum and minimum dimensions shown here:



Media Margins

The media margins define the real available plotting area on the media:

17 mm = 0.67 in
5 mm = 0.2 in
All measurements +/– 2mm (0.08 in)



Other Plotter Features

- Automatic media-edge sensing.
- Automatic cartridge alignment, testing and servicing.
- Built-in diagnostics and demonstration plots.
- Automatic media stacking with adjustable media bin.
- An automatic single-axis cutter.
- Queuing, nesting and expanded margin capabilities (not applicable to plotters/printers with the PostScript SIMM installed).
- Easy-to-read 2x30 vacuum fluorescent display (VFD).

Upgrading

An upgrade package, which can be installed by the user and which consists of an extra ROM and Postscript SIMMs is available.

The differences between this plotter/printer and previous ones are:

750C *Plus*

- Addressable 600-dpi color print for excellent print quality.
- Real 600-dpi monochrome print for excellent CAD print quality.

750C
750C *Plus*
755 CM

- Quality color printing on plain CAD Bond paper.
- Up to 9 months of indoor lightfastness with new color inks.
- Optional color matching via Pantone-licensed, color palettes and optional color management kit.
- ColorSmart color-rendering technology support for Windows users.

- Darker pigment-based black ink for sharper quality mono lines and text.
- Better image quality via advanced imaging print modes.
- Support for additional media including clear film, and several types of glossy paper.
- Windows 95 support.
- Much faster Windows driver that uses half as much memory and has an “always available” print mode.
- Faster AutoCAD driver.
- Broad support of Asian drivers (Japanese, Korean, Chinese and Taiwanese for AutoCAD and Korean and Japanese for Windows).
- Faster I/O via a 5-times improvement in Bitronics I/O interface speed.
- Support for HP Jet Direct MIO 6.0 and Jet Direct EX and fast parallel port ECP.
- New industrial design.
- US EPA Energy Star rating (45 watt limit).

2

Site Planning and Requirements

Power Requirements

HP DesignJet 700, 750C, 750C Plus and 755 CM plotters/printers have self-adjusting power supplies and do not require a voltage selector or switch settings prior to use. The table below lists the power requirements for the plotters.

Power Requirements

Source Voltage Requirements:	Voltage	Max current (rms)
	100 V ac	1.40 A
	120 V ac	1.17 A
	220 V ac	0.64 A
	240 V ac	0.60 A
Normal Operating Range:	90 to 264 V ac	
Frequency:	47-63 Hz	
Consumption:	140 watts maximum	

WARNING **The ac power outlet (mains) must have a protective earth (ground) terminal. Serious shock hazard leading to death or injury may result if the plotter is not properly grounded.**

Choosing an Interface Cable

(Instructions ➧ User's Guide, chapter 1, § *Connect the plotter to your computer.*)

Serial (RS-232-C) Interface A short cable (less than 15 meters or 50 feet) is recommended for the RS-232-C interface. A longer cable is permissible, provided the load capacitance does not exceed 2500 picofarads.

Parallel (Bi-Tronics/Centronics) Interface Use a short cable (less than 2 meters or 6.6 feet) for the parallel interface.

(Cable part numbers ➧ Service Manual, chapter 11.)

Choosing a Suitable Plotter Environment

The table below lists the environmental specifications for the plotters.

Environmental Specifications

Temperature		
Storage		–40 to +70 °C (–40 to +158 °F)
Operating		0 to +55 °C (+32 to +131 °F)
Optimal Operating		+15 to +30 °C (+59 to +86 °F)
Relative Humidity (Operating)		20 to 80 % RH
Operating environment:	**Temperature**	**Relative Humidity**
Plotter/Printer	0 to 55°C (32 to 131°F)	5-95%
With cartridges and media:	15 to 35°C (59 to 95°F)	20-80%
Optimal print quality and media handling:	15 to 30°C (59 to 86°F)	20-80%
Storage environment:	**Temperature**	**Relative Humidity**
Plotter/media	–40 to +70°C (–40 to +158°F)	20-80%
Cartridges	–40 to +60°C (–40 to +140°F)	20-90%
Acoustics:*	**Sound Pressure**	**Sound Power**
Operating	54 dB (A)	6.5 bels (A)
Idle	< 20 dB (A)	< 3.6 bels (A)

*These specifications are typical sound pressures at a one-meter bystander position. Idle specification assumes fan is off.

Plotter Dimensions and Weight

Plotter Model:	E/A0-size plotters	D/A1-size plotters
Height (window closed)	1200 mm (47.3 in)	1200 mm (47.3 in)
Depth	675 mm (26.6 in)	675 mm (26.6 in)
Length	1370 mm (54 in)	1072 mm (42.2 in)
Weight	42 kg (93 lbs)	32 kg (71 lbs)

Notes

3

Installation and Configuration

Unpacking and Assembling the Plotter/Printer

When the plotter/printer arrives at the user site:

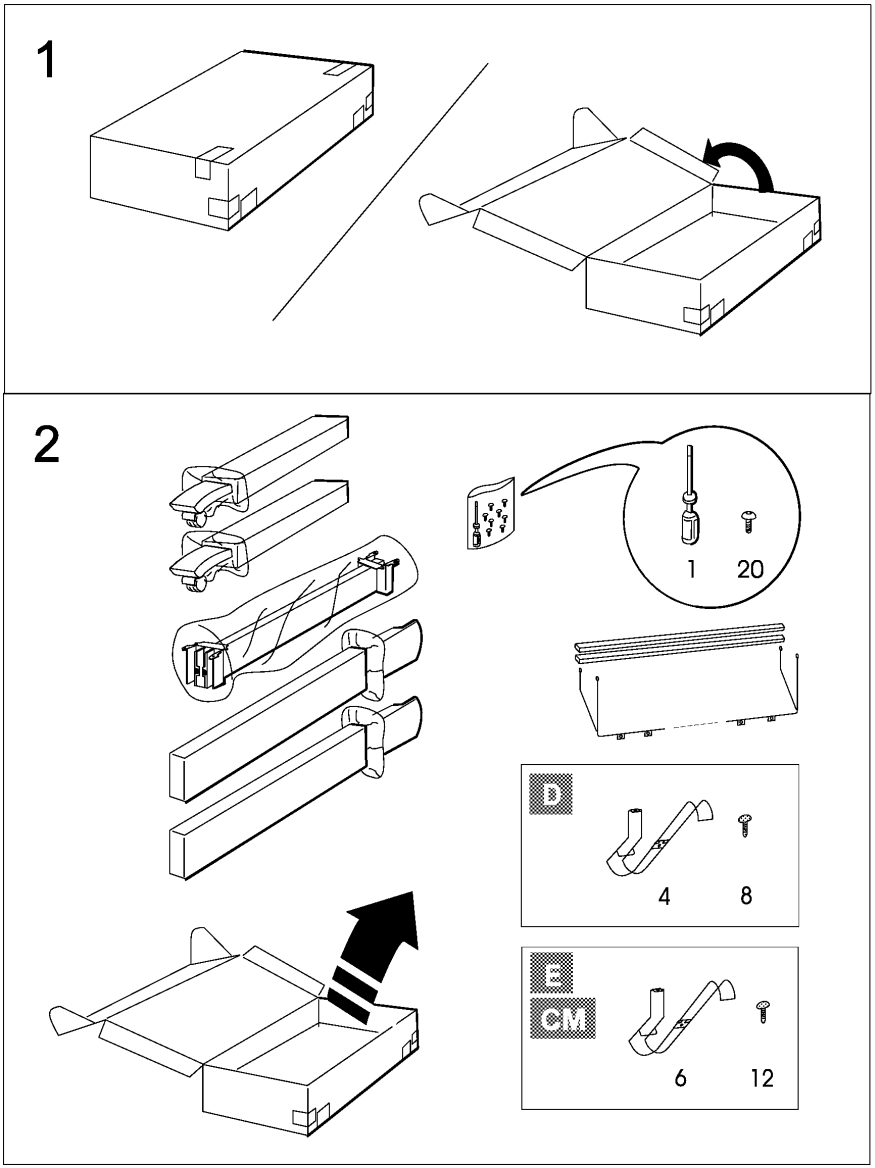
1 Inspect the shipping container for damage.

If the shipping container shows signs of damage, retain it until you have checked the contents of the shipment and verified the performance of the plotter.

2 Unpack and assemble the plotter, following the series of illustrations as follows.

The capitals included in the frames correspond to the following plotters:

D: DesignJet 700, 750C and 750C Plus (D/A1)
E: DesignJet 700, 750C and 750C Plus (E/A0)
CM: 755CM (E/A0)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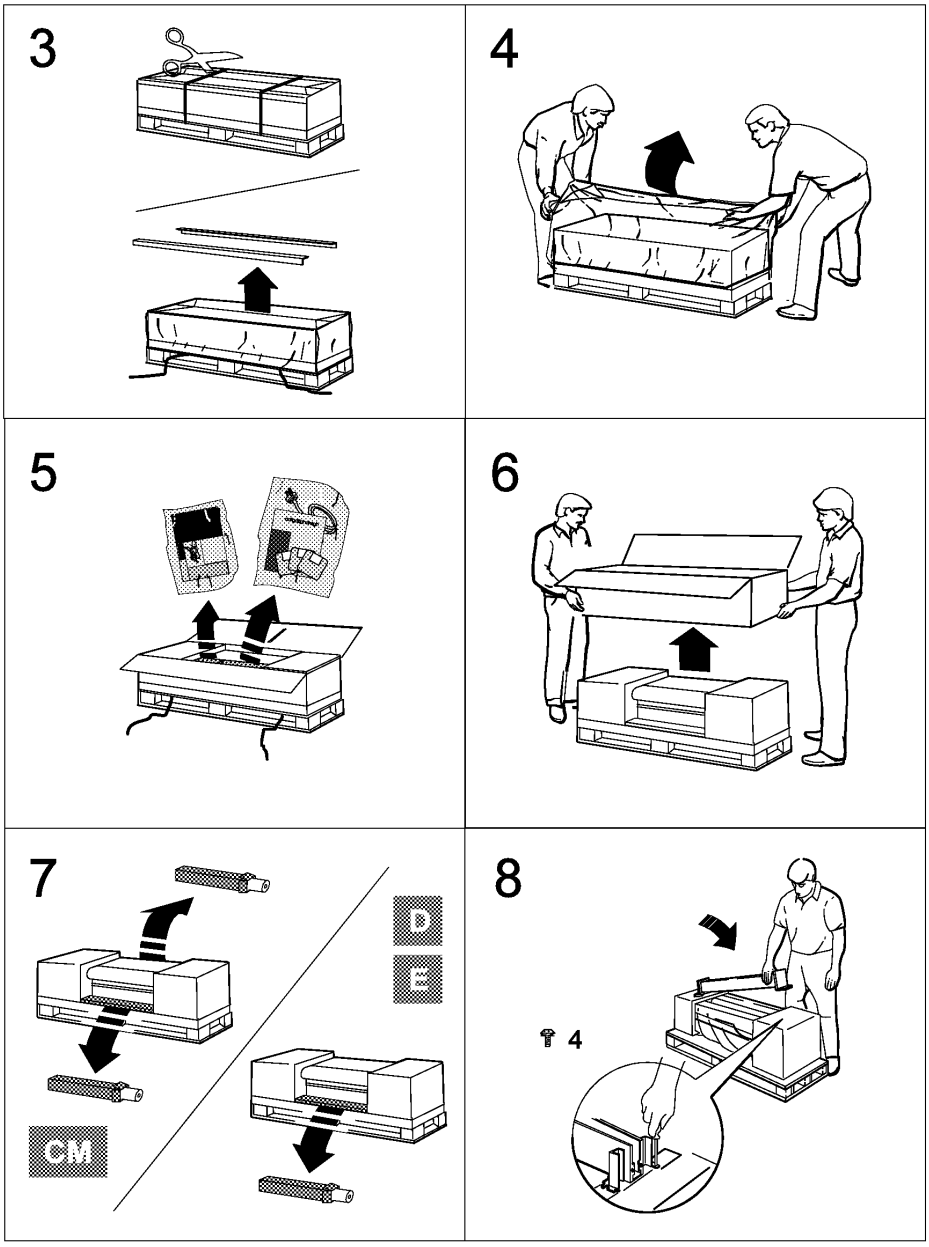
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Inspecting the Plotter/Printer for Damage

Visually inspect the plotter/printer for damage, scratches, dents, or other mechanical defects. If the plotter is damaged in transit, notify the carrier and the nearest HP Sales and Support Office. Retain the shipping container and insulation material for the carrier's inspection. The Sales and Support Office will arrange for the repair or replacement of the plotter.

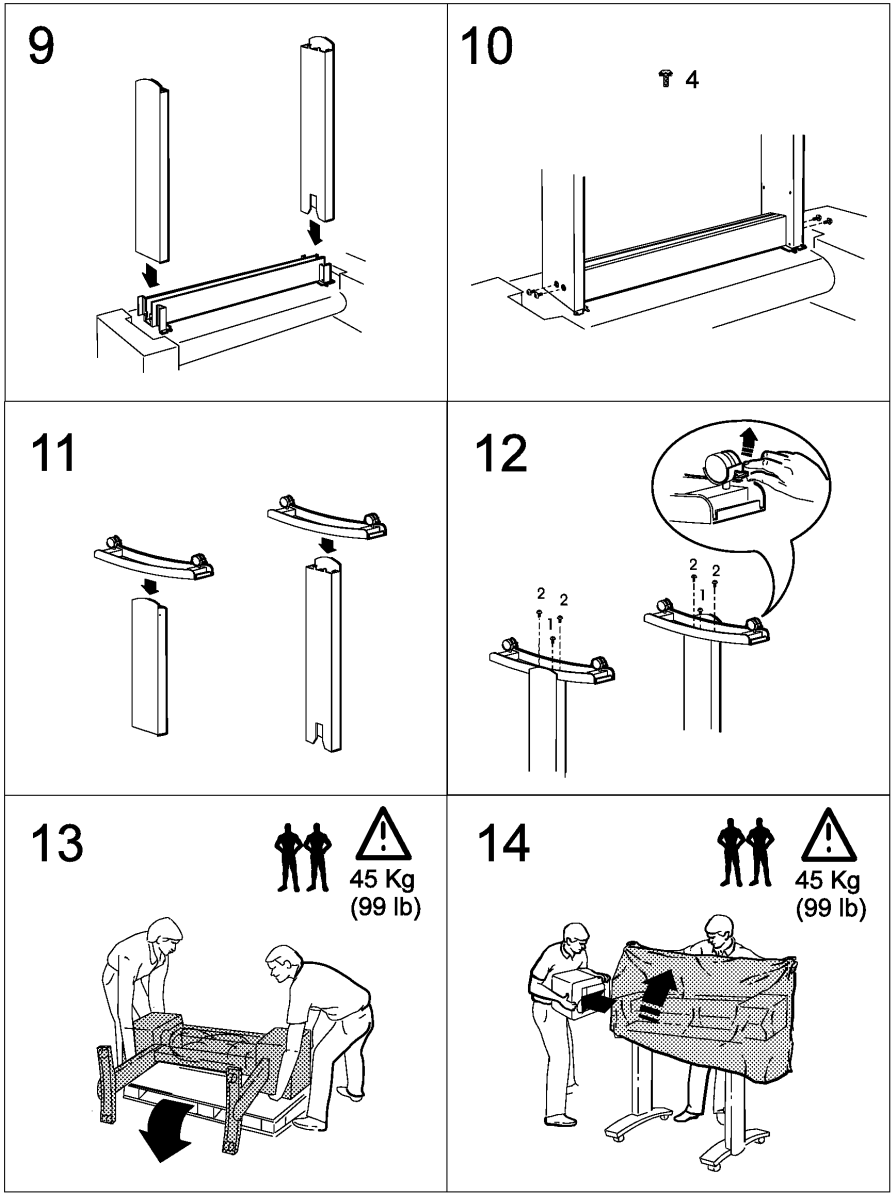
Repacking the Plotter/Printer

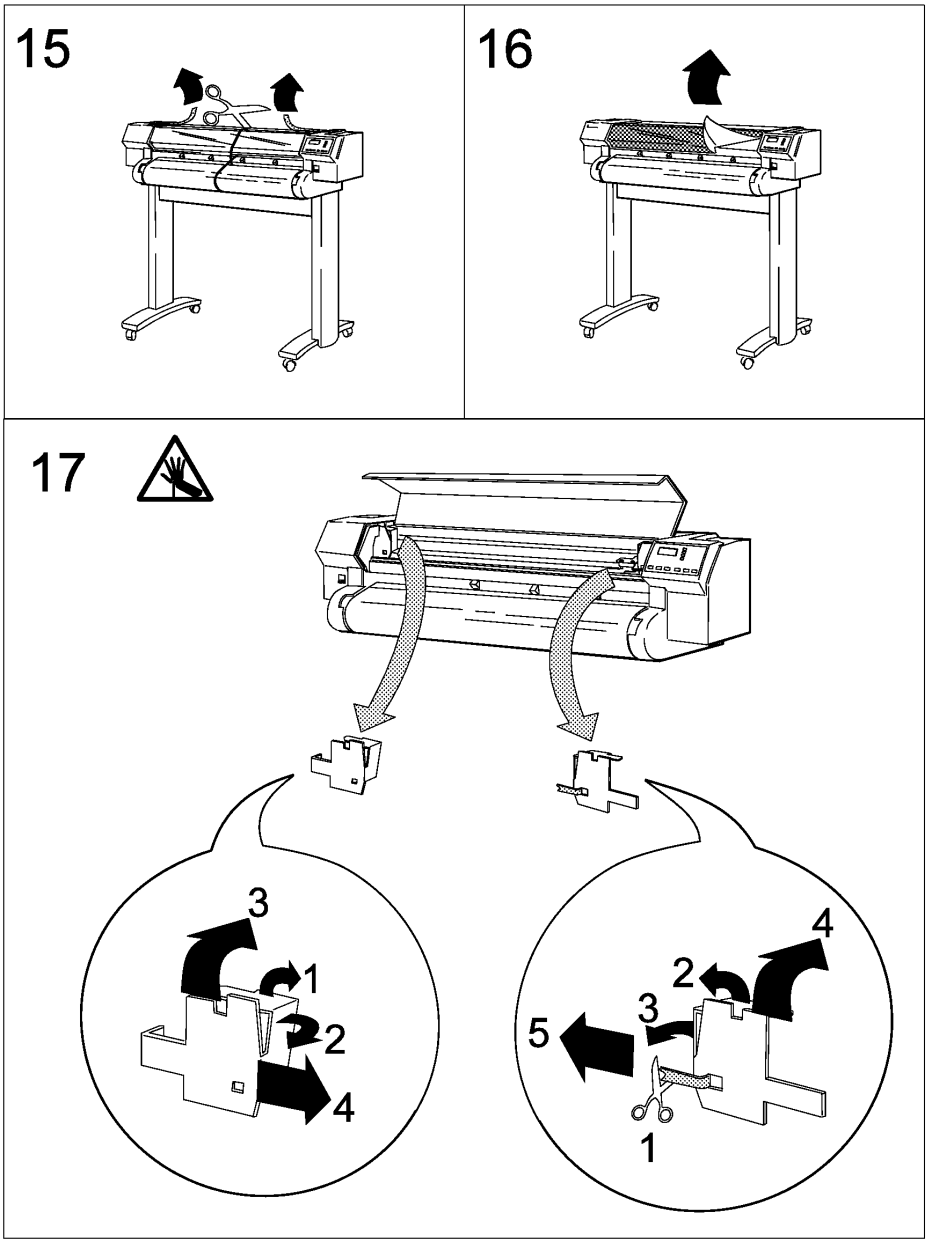
You can order a repacking kit if you need to repack the plotter/printer and don't have the shipping container and insulation material. (Part numbers ➧ chapter 11.)

Be careful when returning the plotter/printer to ensure that at no time is it turned upside down − neither during packing nor shipment − otherwise ink from the spittoon may leak and damage the equipment.

Assembling the Legs and Media Bin (Optional)

If the user has purchased the optional legs and media bin for the plotter, assemble them following the series of illustrations below:

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Product: 1996 HP DesignJet 700,750C,750C Plus and 755CM Plotters/Printers Service Repair Workshop Manual
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0750c750c-plus-and-755cm-plottersprinters-service-repair-wor
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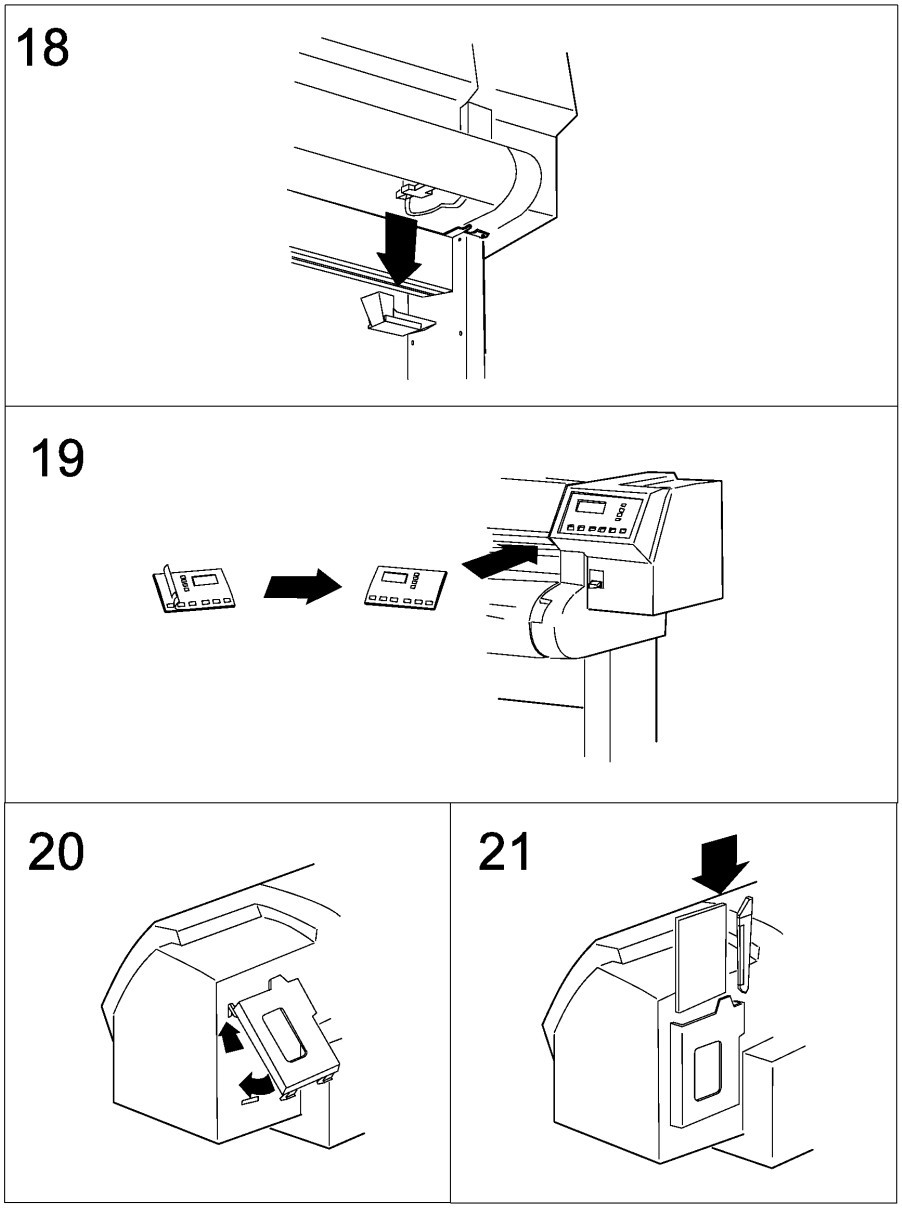

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