

DEC Laser 5100 Printer

Installation and Setup Guide

Order Number: EK-DL510-IN. A01

First Printing, January 1994

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115 Volt model only

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- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Any changes or modifications made to this equipment not expressly approved by the manufacturer could void the user's authority to operate this equipment.

To meet FCC requirements a properly shielded parallel cable is required to connect the device to a personal computer or other Class B device.

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This equipment does not exceed Class B limits per radio noise emissions for digital apparatus set out in the Radio Interference Regulation of the Canadian Department of Communications. Operation in a residential area may cause unacceptable interference to radio and TV reception requiring the owner or operator to take whatever steps are necessary to correct the interference.

Avis de conformité aux normes du ministère des communications du Canada:

Cet équipement ne dépasse pas les limites de Classe B d'émission de bruits radioélectriques pour les appareils numériques tels que prescrites par le Règlement sur le brouillage radioélectrique établi par le ministère des Communications du Canada. L'exploitation faite en milieu résidentiel peut entraîner le brouillage des réceptions radio et télé, ce qui obligerait le propriétaire ou l'opérateur à prendre les dispositions nécessaires pour en éliminer les causes.

220 Volt model only

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This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Dieses ist ein Gert der Funkstgrgrenzwertklasse A. In Wohnbereichen knnen bei Betrieb dieses Gertes Rundfunkstrungen auftreten, in welchen Fllen der Benutzer fr entsprechende Gegenmanahmen verantwortlich ist.

Ceci est un produit de Classe A. Dans un environnement domestique, ce produit risque de crer des interferences radioelectriques, il appartiendra alors l'utilisateur de prendre les mesures spcifiques appropries.

German Acoustic Notice:

Acoustics—DECLARED values per ISO 9296 and ISO 7779:

	LwAd, B	LpAm, dBA (bystander positions)
Idle	4.6 bels	31 dBA
Operating	6.3 bels	48 dBA

Note

Current values for specific configurations are available from Digital representatives. 1 bel = 10 dBA.

Schallemissionswerte—Vorläufige Werteangaben nach ISO 9296 und ISO 7779/DIN EN27779:

	Schalleistungspegel	Schalldruckpegel
	LwAd, B	LpAm, dBA (Zuschauerpositionen)
Leerlauf	4,6 bels	31 dBA
Betrieb	6,3 bels	48 dBA

Hinweis

Aktuelle Werte für spezielle Ausrüstungsstufen sind über die Digital Equipment Vertretungen erhältlich. 1 bel = 10 dBA.

Contents

Preface	vii
1 Installing the Printer	
1.1 Checking the Inventory	1-1
1.2 Choosing a Location for the Printer	1-3
1.3 Removing the Shipping Material	1-4
1.4 Installing the Toner Cartridge	1-10
1.5 Loading Paper into the Internal Tray	1-11
1.6 Connecting the Power Cord	1-12
1.7 Performing the Printer Self-Test	1-13
2 Connecting the Printer and Installing Drivers	
2.1 Connecting to an Ethernet Network	2-1
2.2 IBM or Compatible PC Interface Connections	2-2
2.2.1 Connecting a Parallel Cable	2-4
2.2.2 Connecting a Serial Cable	2-5
2.2.3 Configuring Your DOS Files	2-6
2.2.4 Printer Drivers	2-9
2.2.4.1 Drivers for MS-DOS Users	2-9
2.2.4.2 Drivers for Windows Users	2-10
2.3 Connecting the Printer to a Macintosh Computer	2-11
2.3.1 Connecting to an Existing AppleTalk Network	2-12
2.3.1.1 When the Printer is the Last Device on the Network ...	2-12
2.3.1.2 When the Printer is Between Devices on the Network ...	2-14
2.3.2 Installing the Macintosh Printer Driver	2-16
2.4 Connecting to OpenVMS VAX or ULTRIX Systems	2-17
2.4.1 Connecting Cables and Adapters	2-18

Figures

1-1	Inventory	1-2
1-2	Required Printer Space	1-3
1-3	Example of the Start-Up Test Page	1-13
2-1	Last Device on the Network	2-13
2-2	Between Devices on the Network	2-15
2-3	EIA-232 and EIA-422 Cable/Adapter Configurations	2-19
2-4	Interface Adapters and Cables	2-20

Tables

2-1	AUTOEXEC.BAT Modifications for Parallel Connections	2-7
2-2	AUTOEXEC.BAT Modifications for Serial Connections	2-8

Preface

Congratulations on your purchase of the DEClaser 5100 printer. It is designed and built to give you many years of excellent service. This book helps you get started, from unpacking the parts to installing a printer driver. Please follow the instructions in the order they are presented to install the printer successfully. After following these steps, you should be able to print files, using your application software.

The following are some additional publications you may want to have handy:

- For all users:

DEClaser 5100 Printer User's Guide
(included with the printer)

- For DECprint Supervisor (DCPS) users:

DECprint Supervisor for OpenVMS User's Guide
DECprint Supervisor for OpenVMS System Manager's Guide

- For MS-DOS or Windows software users:

MS-DOS User's Guide and Reference
Microsoft Windows User's Guide

- For Macintosh computer users:

Macintosh User's Guide

Conventions

The following terms and conventions are used in this guide:

Term or Convention	Meaning
NOTE	Notes provide important additional information.
CAUTION	Cautions provide information required to prevent damage to equipment.
WARNING	Warnings provide information to prevent personal injury.
Dash (—)	A statement preceded by a dash describes the result of a step.
Check Mark (✓)	A statement marked by a check mark indicates a special instruction related to a step.
Key	A name enclosed in a box indicates that key on the operator panel.
Bold	Information shown on the message display is shown in bold type.
USER INPUT	Monospaced type indicates user input.

1

Installing the Printer

This chapter explains how to install and test the printer *before* you connect it to your computer.

1.1 Checking the Inventory

Be sure that you have all of the items shown in Figure 1-1 after unpacking the DEClaser 5100 printer.

- Contact your Digital distributor or authorized retailer if any printer parts are missing or damaged.
- Interface cables are NOT shipped with the printer. This guide helps you identify the cable and adapters you may need. Ordering information is listed in Appendix D of your *DEClaser 5100 Printer User's Guide*.
- Software drivers are shipped with the printer on 3.5-inch diskettes.

Figure 1-1 Inventory



1 Printer

2 English printer documentation¹

3 Power cord (115-120V model only)¹

4 Printer driver diskettes and documentation

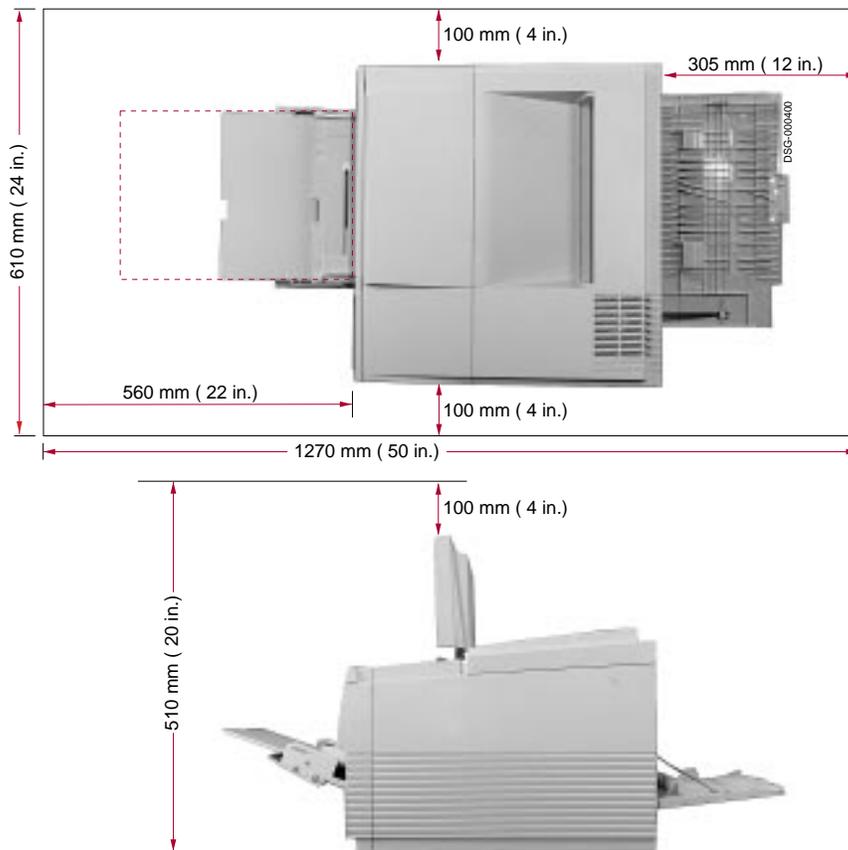
5 Toner cartridge

¹Local language documentation and 220-240V power cords are shipped in a separate box.

1.2 Choosing a Location for the Printer

Install the DEClaser 5100 printer on a flat level surface, such as a desktop or printer stand. Allow enough space for adequate air circulation and to access the different areas of the printer. Figure 1–2 shows the top view and right side view of the printer, and indicates the required operating space.

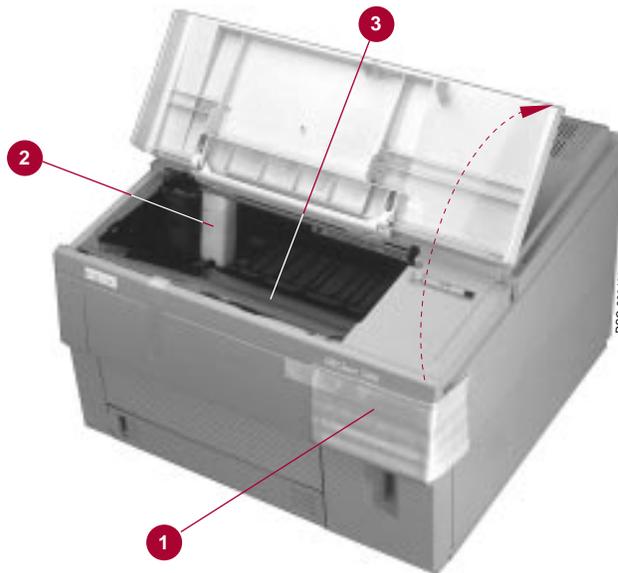
Figure 1–2 Required Printer Space



1.3 Removing the Shipping Material

Remove all shipping material before operating the printer.

1. Remove all shipping tape ❶ from the front and back of printer.
 2. Open the top cover by pressing in on each side of the cover and lifting it up.
 3. Remove the foam packing material ❷ and sheet of card stock ❸.
- ✓ You can leave the top cover open for the moment.



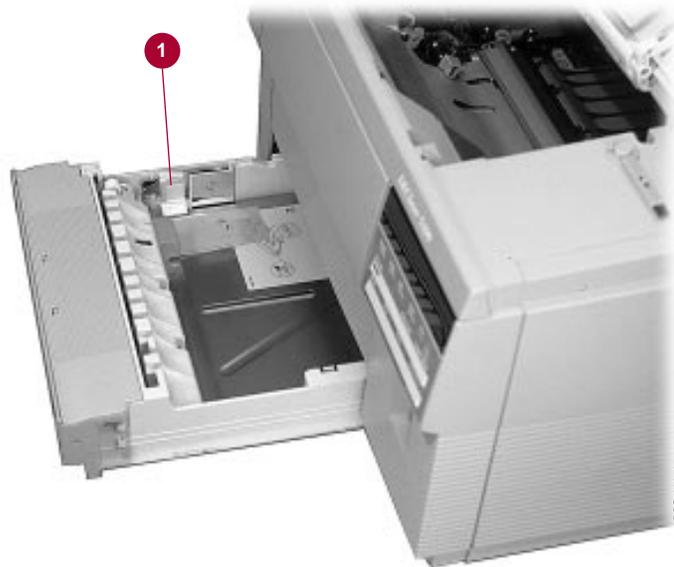
4. Lower the front tray ❶ by pressing in the top center of the tray to release the catch.



5. Pull out the extension tray **1** and remove the piece of card stock **2** from the tray.
✓ Close the front tray.



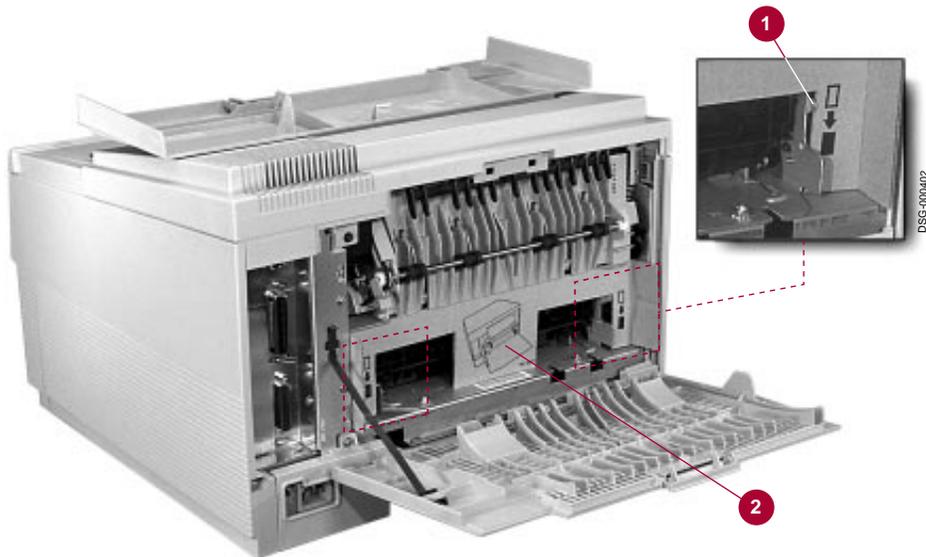
6. Slide the internal tray out all the way from the printer.
7. Remove the tape and packing material **1** from the tray.
 - ✓ You will be loading paper in the tray later in the installation procedure, so leave the tray out of the printer for the moment.



8. Open the rear door of the printer by pressing the latch and lowering the door.



9. Push down the fusing assembly levers on each side of the fusing unit as shown on the card stock diagram ❶.
10. Remove the shipping card stock ❷ and close the rear cover.



This completes the removal of shipping materials. Go to Section 1.4 to continue the installation.

1.4 Installing the Toner Cartridge

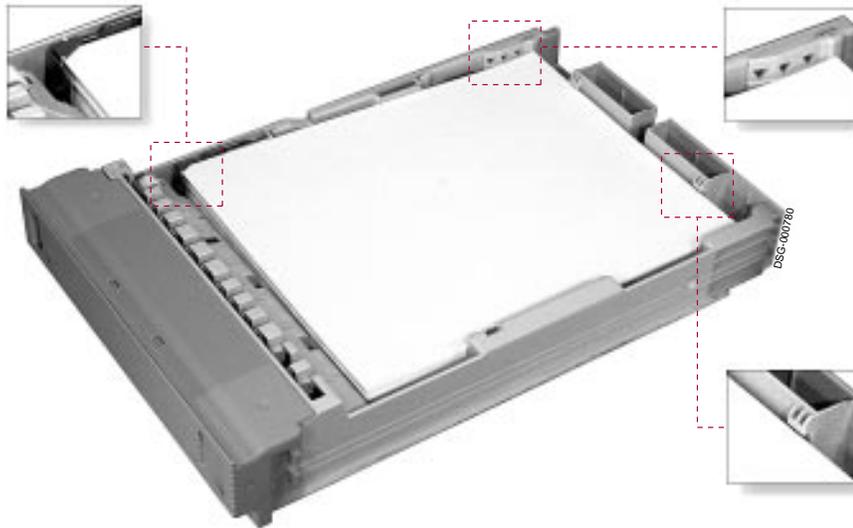
Unpack and install the toner cartridge according to the illustrations on the top of the cartridge. Close the top cover after installing the toner cartridge.



1.5 Loading Paper into the Internal Tray

The type of paper you use in the DEClaser 5100 printer affects print quality. Be sure to use only high-quality paper that meets the specifications listed in Appendix C of your *DEClaser 5100 Printer User's Guide*.

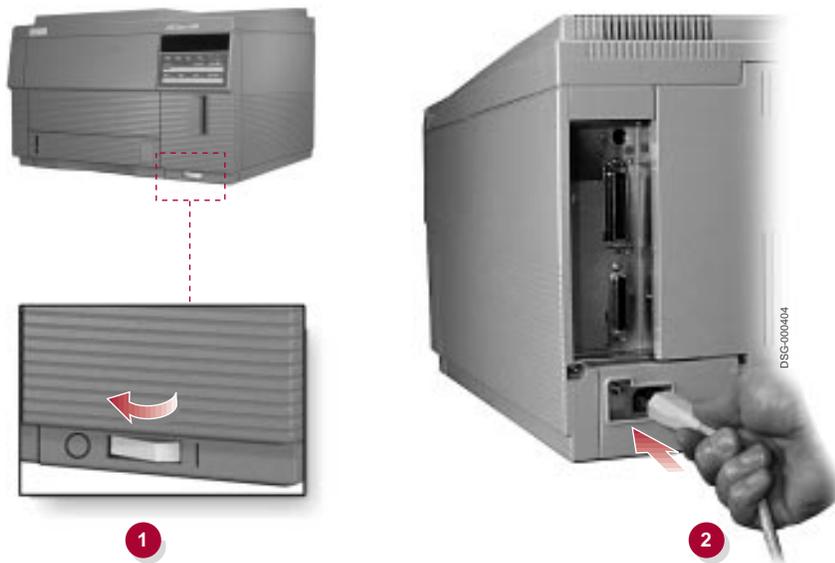
1. Insert a stack of paper (up to 250 sheets) into the tray according to the instruction label on the tray.
 - ✓ To prevent paper jams, be sure the paper is below the paper guides and lies flat at all four corners of the tray. The height of the paper should not exceed the paper height arrow on the side of the tray.
2. Slide the internal tray back into the printer.



1.6 Connecting the Power Cord

This section describes how to connect the power cord. You connect the interface cables after performing the printer self-test.

1. Be sure the power switch (located in the front of the printer) is in the O (OFF) position **1**.
2. Connect the power cord to the rear of the printer **2** then plug the other end into the wall outlet.



2

Connecting the Printer and Installing Drivers

The DEClaser 5100 printer supports simultaneous connections to its serial, parallel, and LocalTalk ports, and to an optional network card. Simultaneous connections allow you to print from three or more different systems. This chapter describes how to connect interface cables to the printer.

To Connect the Printer to . . .	See . . .
Ethernet Network	Section 2.1
IBM or compatible PC	Section 2.2
Apple Macintosh computer	Section 2.3
OpenVMS VAX or ULTRIX Systems	Section 2.4

2.1 Connecting to an Ethernet Network

Follow the instructions that come with the optional DEClaser 5000 Series Ethernet Card to connect the printer to the network and complete the printer installation.

2.2 IBM or Compatible PC Interface Connections

If you use MS-DOS or Windows software, you can connect the DEClaser 5100 printer to your PC using a parallel or serial cable. The parallel port supports IEEE 1284 bidirectional and standard Centronics unidirectional communications, while the serial port supports EIA-232 and EIA-422 communications. Use the following information to help you determine which interface port to use for your particular printing requirements.

Parallel Port

The parallel port transmits data at a faster rate than a serial interface. Use the parallel interface if your printer is less than 3 meters (10 feet) from your computer.

NOTE

The default printer setting for parallel communication is:

MODE=Centronics (1-way communication)

Refer to Appendix A in your *DEClaser 5100 Printer User's Guide* for information about changing the communication settings for your printer.

Go to Section 2.2.1 if you are connecting a parallel cable to the printer.

Serial Port

Use the serial port if your printer is more than 3 meters (10 feet) from your PC or if a printer (or other device) is already connected to the parallel port on your PC. The DEClaser 5100 printer supports EIA-232 and EIA-422 serial communications. EIA-422 is recommended if your system supports it and you require high speeds *and* long distances.

NOTE

The default printer settings for serial communication are:

- Baud rate: 9600
- Parity: none
- Flow control: XON/XOFF (2-way)
- Stop bits: 1
- Mode: EIA-232

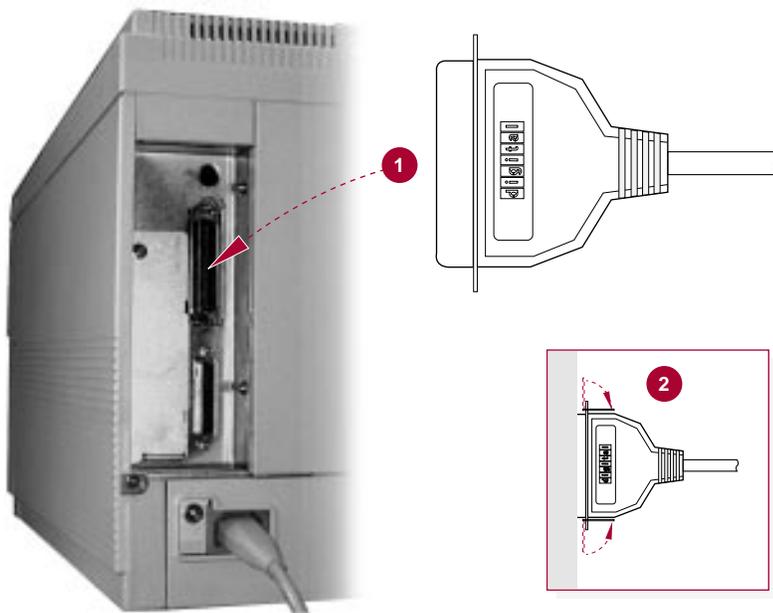
You must change the default setting from **FLOW=XON/XOFF** (2-way) to **FLOW=DTR/DSR** for use with PCs. Refer to the Communications sub-menu in Appendix A of your User's Guide for additional information about communication settings for your printer.

Go to Section 2.2.2 if you are connecting a serial cable to the printer.

2.2.1 Connecting a Parallel Cable

Parallel cables are available from your local computer store or can be ordered from Digital. See Appendix D in your *DEClaser 5100 Printer User's Guide* for parallel cable ordering information.

1. Connect the Centronics end of the cable (with the bar type contacts) ❶ to the printer parallel port, and press the wire clips into the connector to secure the cable to the port ❷.

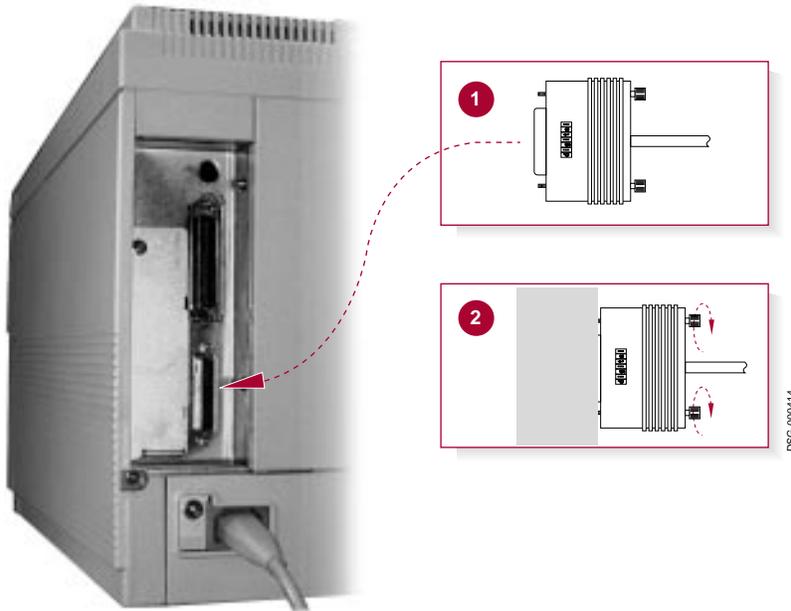


2. Attach the other end of the cable to the parallel port on your PC, using the screws on the connector to secure the cable to the port.
 - ✓ For the parallel port location on your computer, see your PC documentation.
3. If you are an MS-DOS user, go to Section 2.2.3.
4. If you are a Windows user, go to Section 2.2.4.

2.2.2 Connecting a Serial Cable

If your PC has an AT style serial port, you can use a 9-pin to 25-pin serial cable available from most computer stores. You can also use an MMJ style cable with the appropriate adapters. See Appendix D in your *DECLaser 5100 Printer User's Guide* for MMJ cable/adaptor ordering information.

1. Connect the cable to the printer serial port ❶, using the screws on the connector to secure the cable to the port ❷.
2. Attach the other end of the cable to the serial port on your PC, using the thumb-screws (or screws) on the connector to secure the cable to the port.
✓ For the serial port location on your computer, consult your PC documentation.



3. If you are an MS-DOS user, go to Section 2.2.3.
4. If you are a Windows user, go to Section 2.2.4.

2.2.3 Configuring Your DOS Files

This section explains changes you might need to make to your MS-DOS AUTOEXEC.BAT file to communicate with the printer. If you are not familiar with changing text in your AUTOEXEC.BAT file, see your *MS-DOS User's Guide and Reference* for information about text editors and the MODE command.

If you are replacing another printer with the DEClaser 5100 printer, your AUTOEXEC.BAT file may already be correct if you are using the same printer port.

Some applications update your AUTOEXEC.BAT file automatically. Automatic updates do not always change the communications port settings, so it is a good idea to check your AUTOEXEC.BAT file to be sure all the settings have been updated. Other applications may allow you to modify your AUTOEXEC.BAT file from within the application so editing from the DOS prompt is not necessary.

If You Are Using the Parallel Port

Most computers use the first parallel port (labeled LPT1 on your PC) to communicate with the printer. If your printer is connected to LPT1, it is recommended that you specify the retry parameter in the MODE command. The “retry” parameter tells the printer what action to take if a time-out error occurs. The examples in Table 2–1 causes the computer to send a “busy” message if the port is busy during a status check.

Table 2–1 AUTOEXEC.BAT Modifications for Parallel Connections

If you are using . . .	Add the following command . . .
MS-DOS Version 4.0 or newer	MODE LPT1:,,B
MS-DOS Version 3.3 or older	MODE LPT1:,,P

For the changes to the AUTOEXEC.BAT file to take effect, reboot your computer by pressing the RESET button (if you have one) or by pressing **CTRL** + **ALT** + **DELETE** simultaneously.

Go to Section 2.2.4 for information about using printer drivers.

If You Are Using the Serial Port

If the printer is connected to a serial port, you *must* redirect printer output through the MODE command in your AUTOEXEC.BAT file. The example in Table 2-2 uses two MODE commands; the first line configures the serial port and the second line redirects the output from the parallel port (LPT1) to the serial port (COM1).

Table 2-2 AUTOEXEC.BAT Modifications for Serial Connections

If you are using . . .	Add the following commands . . .
MS-DOS Version 4.0 or newer	MODE COM1:9600,N,8,1,B ¹ MODE LPT1:=COM1:
MS-DOS Version 3.3 or older	MODE COM1:9600,N,8,1,P ¹ MODE LPT1:=COM1:

¹This command assumes you are using the default communications settings of the printer. If you have changed the communication settings on your printer you must reflect those changes in your MODE command.

For the changes to the AUTOEXEC.BAT file to take effect, reboot your computer by pressing the RESET button (if you have one) or by pressing **CTRL** + **ALT** + **DELETE** simultaneously.

Go to Section 2.2.4 for information about using printer drivers.

2.2.4 Printer Drivers

A printer driver is a software program that allows your computer to access the features of your printer. This section describes the drivers you can use to operate your printer.

2.2.4.1 Drivers for MS-DOS Users

MS-DOS applications use printer drivers from within the application program; they do not use the Windows drivers included with the printer. To access as many features of the DEClaser 5100 printer as possible you should use one of the PostScript drivers included with the application.

Some typical PostScript drivers are:

- DEClaser 1152
- LaserJet 4M
- LaserWriter Iig, LaserWriter Iif, LaserWriter Plus, and LaserWriter

There are also a number of PCL drivers included with the application if you require them. Typical PCL drivers are:

- LaserJet 4, LaserJet III, and LaserJet II
- PCL5 and PCL4

See your MS-DOS application for information about selecting a printer driver.

This completes the installation of the printer for MS-DOS users. See your *DEClaser 5100 Printer User's Guide* for information on printer features and operation.

2.2.4.2 Drivers for Windows Users

The DEClaser 5100 printer supports Adobe PostScript Level 2 and also provides Enhanced PCL5 emulation if you require it. This section contains information about the PostScript and PCL drivers.

PostScript Drivers

A PostScript printer driver is supplied with the DEClaser 5100 printer and should be used as the first choice. Although other PostScript drivers may work with the DEClaser 5100 printer, you should install the driver included with the printer, which takes maximum advantage of the DEClaser 5100 printer features and performance.

Install the printer driver according to the *Adobe Printer Driver User Guide* (Windows Version) that comes with the diskettes labeled "PostScript." Refer to your MS-Windows documentation for additional information about installing and selecting printer drivers.

This completes the installation of the printer for PostScript users. See the *DEClaser 5100 Printer User's Guide* for information on printer features and operation.

PCL Drivers

Although a PCL printer driver is not included with the DEClaser 5100 printer, you can use alternate drivers to operate the printer. Alternate drivers let you use your printer but may not support all of its features. PCL users can use any of the following drivers that come with or are available for Windows 3.1:

- HP LaserJet 4
- HP LaserJet IIIP, III, IIP

NOTE

PostScript is the default interpreter for the serial interface setting in the Communications sub-menu. You must set the interpreter to **PCL** or **Automatic** if you are using the serial port before printing. Refer to the Communications sub-menu in Appendix A of your User's Guide for additional information about communication settings for your printer.

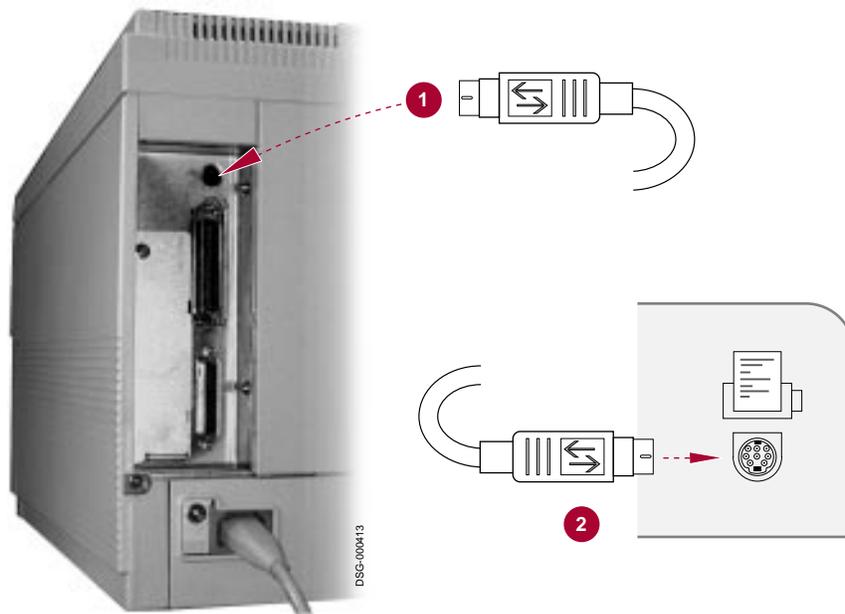
Refer to your Windows documentation for information about installing and selecting printer drivers.

This completes the installation of the printer for PCL users. See the *DEClaser 5100 Printer User's Guide* for information about printer features and operation.

2.3 Connecting the Printer to a Macintosh Computer

Use this procedure to connect the printer directly to your Macintosh computer. If you are connecting to an existing AppleTalk network, see Section 2.3.1.

1. Attach one end of the cable to the LocalTalk port on the printer **1** and the other end to the Macintosh printer port **2** (identified by the printer icon).
- ✓ Go to Section 2.3.2 to continue the installation.



2.3.1 Connecting to an Existing AppleTalk Network

This section explains how to connect the printer to an AppleTalk network when it is:

- The last device on the network (Section 2.3.1.1)
- Between devices on the network (Section 2.3.1.2)

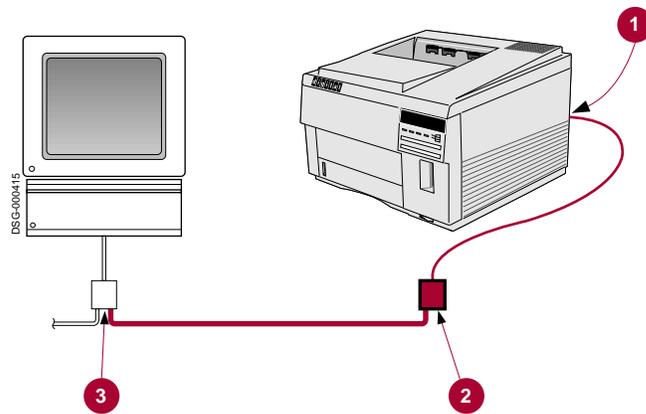
See your system manager if you are not sure if your printer is located between devices or is the last device on the network.

2.3.1.1 When the Printer is the Last Device on the Network

This procedure describes how to connect the printer when it is the last device installed on an existing network (refer to Figure 2-1).

1. Connect the short cable from the new connector box to the LocalTalk port on the back of the printer ❶.
2. Insert one end of the network cable into the new connector box ❷ and connect the other end of the cable into the last connector box on the network ❸ (remove the terminating resistor if necessary).
 - ✓ If you are not using a self-terminating connector box, connect a terminating resistor to the other connector on the new box. Do not leave the connector open.

Figure 2-1 Last Device on the Network



3. Go to Section 2.3.2 to continue the installation.

2.3.1.2 When the Printer is Between Devices on the Network

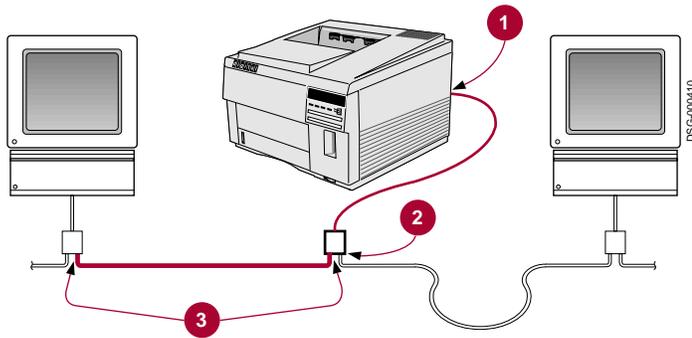
This procedure describes how to connect the printer when it is installed between devices on an existing network. Figure 2-2 shows the network configuration before, and after the printer is installed.

NOTE

Installing the DEClaser 5100 printer between devices interrupts network operation until the new connections are made. You should notify users on the network before connecting your printer so they are aware of the temporary interruption.

1. Connect the short cable from the new connector box to the LocalTalk port on the back of the printer ❶.
2. Unplug the network cable from an existing connector box and connect it to the new connector box ❷.
3. Connect one end of the new network cable to the new connector box and the other end to the existing connector box ❸.

Figure 2-2 Between Devices on the Network



4. Go to Section 2.3.2 to continue the installation.

2.3.2 Installing the Macintosh Printer Driver

A Macintosh printer driver is supplied with the DEClaser 5100 printer. Although other Macintosh drivers may work with the DEClaser 5100 printer, you should install the driver included with the printer, which takes maximum advantage of the DEClaser 5100 printer features and performance.

Install the printer driver according to the *Adobe Printer Driver User Guide* (Macintosh Version) instructions that comes with the diskettes labeled "Macintosh." Refer to your *Macintosh User's Guide* for additional information about installing and selecting printer drivers.

This completes the installation of the printer for Macintosh users. See the *DEClaser 5100 Printer User's Guide* for information on printer features and operation.

2.4 Connecting to OpenVMS VAX or ULTRIX Systems

This procedure explains how to connect the DEClaser 5100 printer to an OpenVMS VAX or ULTRIX operating system. You use the serial port to connect the printer, unless you have an optional Ethernet network card installed.

NOTE

The default printer settings for serial communication are:

- Baud rate: 9600
- Parity: none
- Flow control: XON/XOFF (2-way)
- Stop bits: 1
- Mode: EIA-232

Refer to the Communications Sub-Menu in Appendix A of your *DEClaser 5100 Printer User's Guide* if you need to change the communication settings for your printer.

2.4.1 Connecting Cables and Adapters

Although the DEClaser 5100 printer has only one serial port, it can use one of two distinct serial interfaces: EIA-232 or EIA-422. These interfaces require different cables. The interface and cables you choose depend on your printer distance and speed requirements, and whether your system supports EIA-422.

Use EIA-232 if:

- The printer is less than 15 meters (50 feet) from the host.
- You do not require (guaranteed) speeds greater than 19200 bps.

Use EIA-422 if:

- It is supported by your host system.
- The printer is up to 61 meters (200 feet) from the host.
- You require reliable communication at speeds up to 57.6K baud.

All Digital host systems and DECservers with a built-in DECconnect interface or built-in OpenDECconnect interface are EIA-422 compatible.

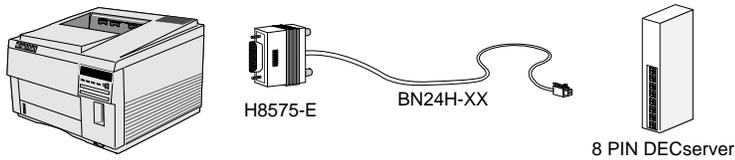
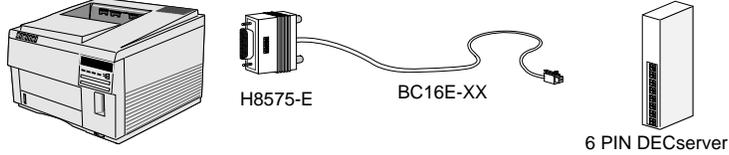
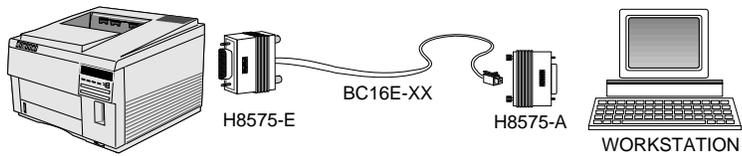
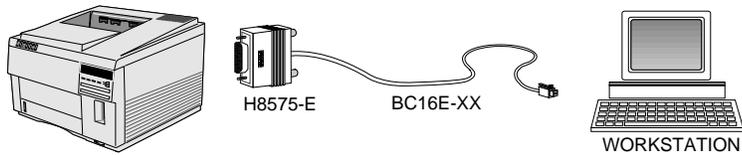
CAUTION

To prevent possible damage to your printer, do not use H8571 or H8575 adapters on your host system if you are using the EIA-422 interface.

Figure 2-3 shows typical cable and adapter configurations for EIA-232 and EIA-422 interfaces. This figure shows the H8575-x adapter for use in some configurations. You can also substitute the older H8571-x adapters for the H8575-x if you have them.

Figure 2-3 EIA-232 and EIA-422 Cable/Adapter Configurations

EIA-232



EIA-422

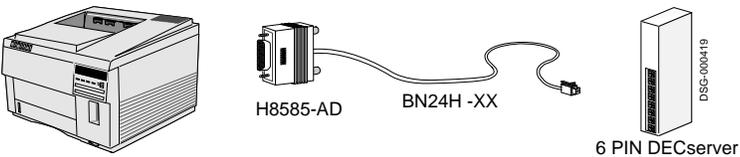
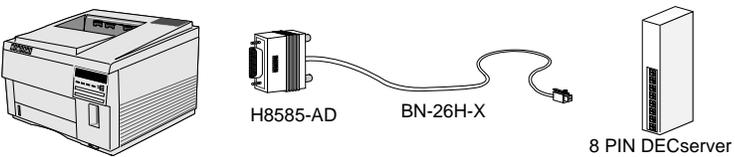
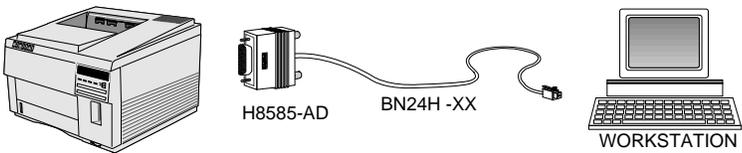


Figure 2-4 lists typical cable and adapter configurations for the DEClaser 5100 printer.

Figure 2-4 Interface Adapters and Cables

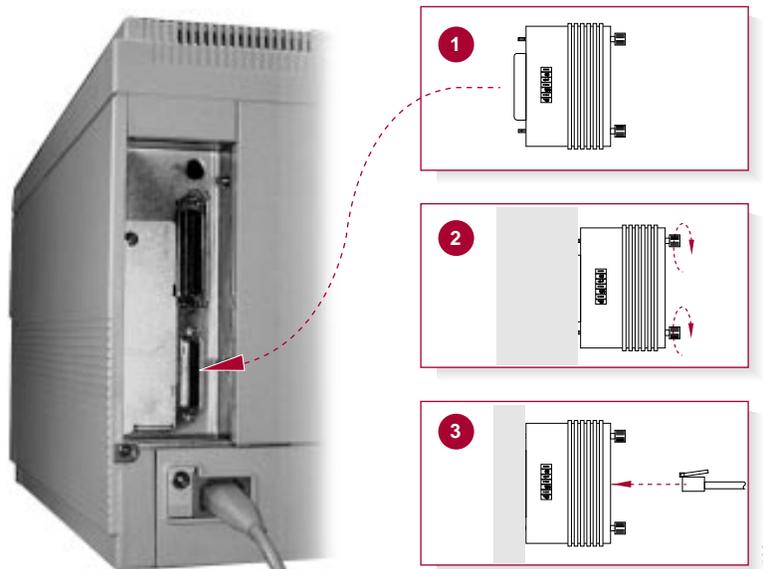
Host System / Server	EIA Interfaces	Host Adapter	Cable	Printer Adapter
VAXstation 3100 DECstation 3100 DECserver 300 DECserver 90L DECserver 90L+ LATprint	EIA-232 or... EIA-422	None None	BC16E-xx ¹ BN24H-xx ¹	H8575-E H8585-AD
DECserver 200MC DECserver 700-8	EIA-232	H8575-A	BC16E-xx ¹	H8575-E
DECserver 900 DECserver 700-16 DECserver 90TL DECserver 90M	EIA-422	None	BN26X-xx ¹	H8585-AD

DSG-000450

¹xx refers to the cable length. (BN = meters, BC = feet)

Use the following procedure to connect the printer to your OpenVMS VAX or ULTRIX operating system.

1. Connect the appropriate adapter to the serial port ❶, using the thumb-screws on the adapter to secure the cable to the port ❷.
 2. Connect the appropriate cable to the adapter ❸ and the other end to your VAXstation, server (or server adapter if required), or terminal.
- ✓ Be sure to make any changes to the Communications Sub-Menu if you are not using the default settings (EIA interface, baud rate, and so on). See Appendix A in your User's Guide for more information.



3. Contact your system manager to add your printer to the network and to establish a queue name.

This completes the installation of the printer for OpenVMS VAX and ULTRIX users. See the *DECLaser 5100 Printer User's Guide* for information on printer features and operation.

