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# DEClaser 3500 Printer Serial Interface Installation Guide

EK-D35PS-IG.A01

**Digital Equipment Corporation**  
**Maynard, Massachusetts**

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## FEDERAL COMMUNICATIONS COMMISSION NOTICE

### Class B Equipment

FCC ID: A09-LN14X-SI

This device complies with Part 15 of the FCC Rules. Operation is subject to the following conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- 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 or television technician for help.

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the interference-causing equipment standard entitled "Digital Apparatus," ICES-003 of the Department of Communications.

Cet appareil numérique respecte les limites de bruits radioélectriques applicables aux appareils numériques de Classe B prescrites dans la norme sur le matériel brouilleur : "Appareils Numériques", NMB-003 édictée par le ministre des Communications.

### **Modifications**

The FCC requires the user to be notified that any changes or modifications made to this device that are not expressly approved by Digital Equipment Corporation may void the user's authority to operate the equipment.

### **Cables**

Connections to this device must be made with shielded cables with metallic RFI/EMI connector hoods in order to maintain compliance with FCC Rules and Regulations.

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## ELECTROSTATIC DISCHARGE

A discharge of static electricity from a finger or other conductor may damage circuit boards or other static-sensitive devices. This type of damage may reduce the life expectancy of the device. To prevent electrostatic damage, observe the following precautions:

- Avoid hand contact by transporting and storing parts in static-safe containers.
- Keep electrostatic-sensitive parts in their containers until they arrive at static-free work stations.
- Place parts on a grounded surface before removing them from their container.
- Avoid touching pins, leads, or circuitry.
- Always be properly grounded when touching a static-sensitive component or assembly.

## GROUNDING METHODS

Use one or more of the following grounding methods when handling or installing electrostatic-sensitive parts:

- Use a flexible wrist strap with a minimum of 1 megohm  $\pm$  10 percent resistance in the ground cord that is connected to a grounded workstation or the printer chassis. To provide a proper ground, wear the strap snug against the skin.
- Use heel straps, toe straps, or boot straps on both feet at standing workstations. Stand on conductive floors or dissipating floor mats.
- Use conductive field service tools.
- Use a portable field service kit with a folding static-dissipating work mat.

If you do not have the proper grounding equipment, have an Authorized Service Provider install the part.

**NOTE:** For additional information on static electricity, or assistance with the installation of this product, contact your Authorized Service Provider.

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## ITEMS NEEDED FOR INSTALLATION

- Serial interface option
- Nonmagnetic Phillips screwdriver
- Serial interface cable

## CABLE REQUIREMENTS

You must attach an RS-232-C printer cable to the serial board in your printer and to the serial port on the network or your host computer.

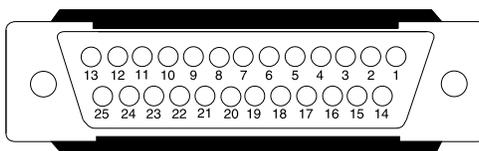


**CAUTION:** To avoid electrostatic damage to the printer option and/or system controller board, follow the safety precautions outlined in "Electrostatic Discharge."

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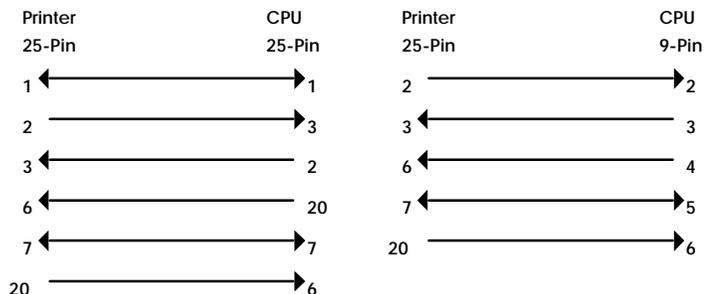
## Printer Serial Port Connector

The serial interface uses a standard D-type 25-pin female connector.



## Typical Pin Assignments

The following are typical pin assignments for a 25-pin to 25-pin connection and 9-pin to 25-pin connection.



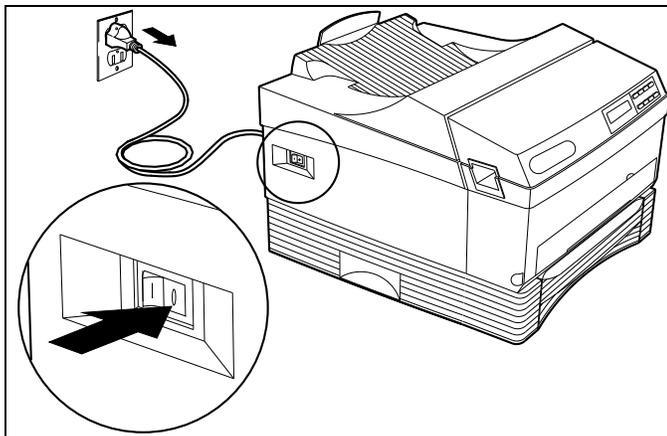
### Printer Serial Interface Pin Assignments

Pin	Signal Name	Function
1	GND	Frame Ground
2	TXD	Transmitted Data
3	RXD	Received Data
4	RTS	Ready to Send
5	CTS	Clear to Send
6	DSR	Data Set Ready
7	GND	Signal Ground
8	CD	Carrier Detect
9-19	No connection	
20	DTR	Data Terminal Ready
21	No connection	
22	RI	Ring Indicator
23-25	No connection	

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## INSTALLATION INSTRUCTIONS

### STEP 1



**TURN THE PRINTER OFF (O) AND UNPLUG THE POWER CORD.**



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**WARNING:** Turn the printer off and unplug the AC power cord before attempting to remove the system controller board. Failure to do so may result in an electrical shock or damage to the printer.

**WARNUNG:** Schalten Sie den Drucker aus und ziehen Sie den Stecker des Netzteil-Adapters, bevor Sie die Systemsteuerungskarte ausbauen. Andernfalls besteht die Gefahr elektrischer Schläge oder einer Beschädigung des Druckers.

**AVERTISSEMENT:** Mettez l'imprimante hors tension et débranchez le cordon d'alimentation secteur avant d'enlever la carte contrôleur. Toute omission de votre part risquerait de provoquer une décharge électrique ou d'endommager l'imprimante.

**AVVERTENZA:** Spegner la stampante e staccare il cavo di alimentazione CA prima di rimuovere la scheda del controller del sistema al fine di evitare scosse elettriche o danni alla stampante.

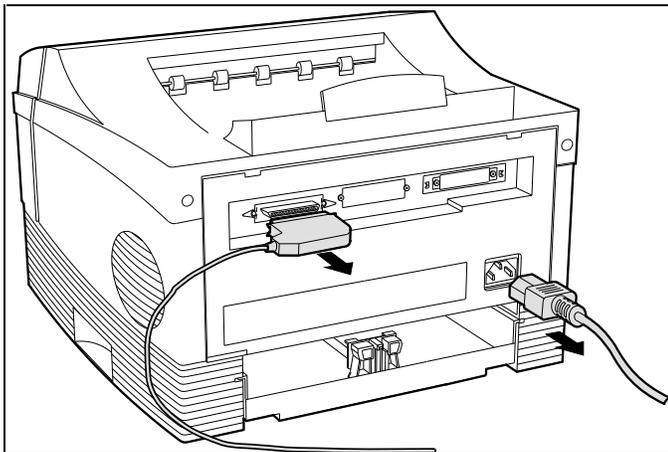
**ADVERTENCIA:** Apague la impresora y desenchufe el cable de alimentación de CA antes de extraer la tarjeta controladora del sistema o, del lo contrario, se puede producir una descarga electrostática o se puede estropear la impresora.

**WAARSCHUWING:** Schakel de printer uit en neem de stekker uit het stopcontact voordat u de systeem-controllerkaart verwijdert. Als u dit niet doet, kunt u een elektrische schok krijgen of de printer beschadigen.

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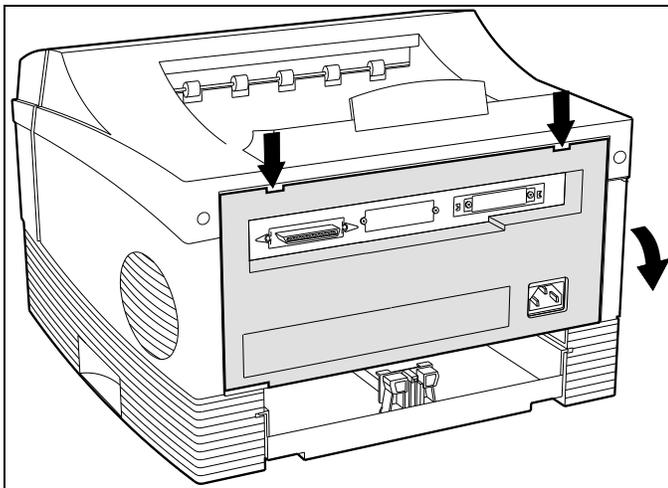
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*STEP 2*



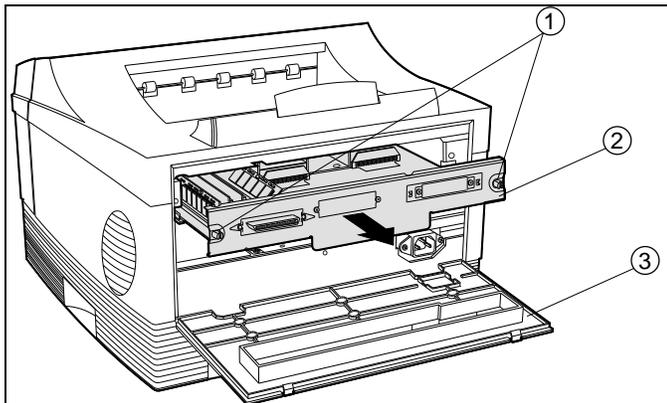
**DISCONNECT ALL CABLES FROM THE PRINTER.**

*STEP 3*



**PRESS DOWN ON THE TABS TO OPEN AND LOWER THE REAR COVER.**

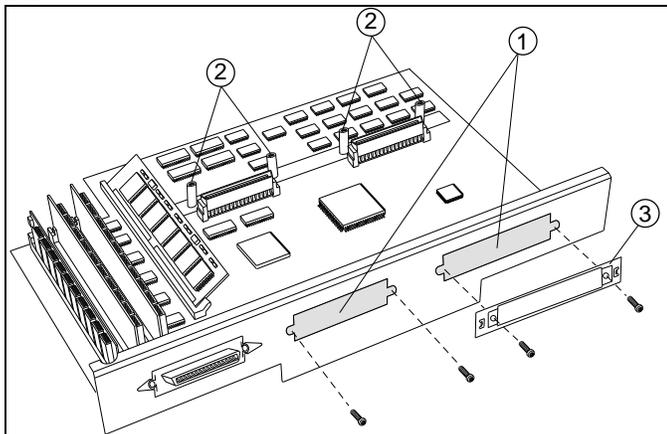
*STEP 4*



**LOOSEN THE SCREWS AND REMOVE THE SYSTEM CONTROLLER BOARD.**

- 1 Thumbscrews
- 2 System Controller Board
- 3 Rear Cover

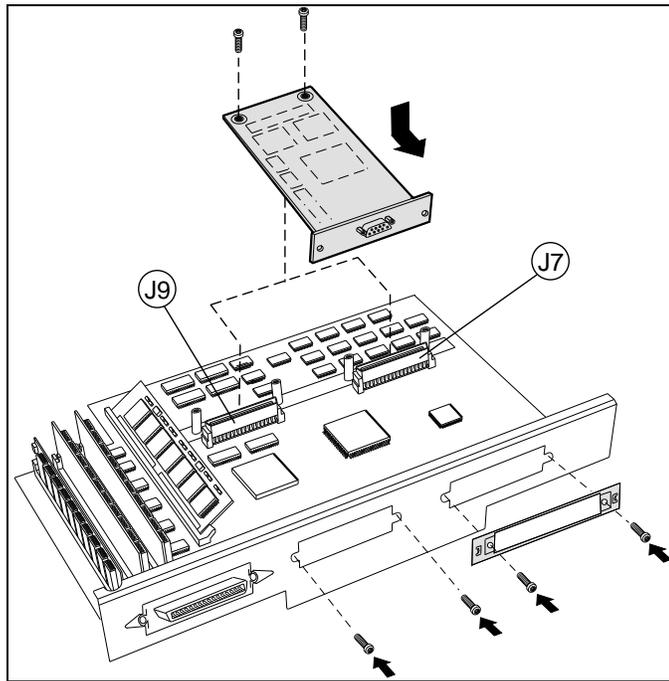
*STEP 5*



**REMOVE THE BLANK PLATE COVERING AN INTERFACE CONNECTOR SLOT.**

- 1 Blank Plate
- 2 Mounting Posts
- 3 Retaining Bracket

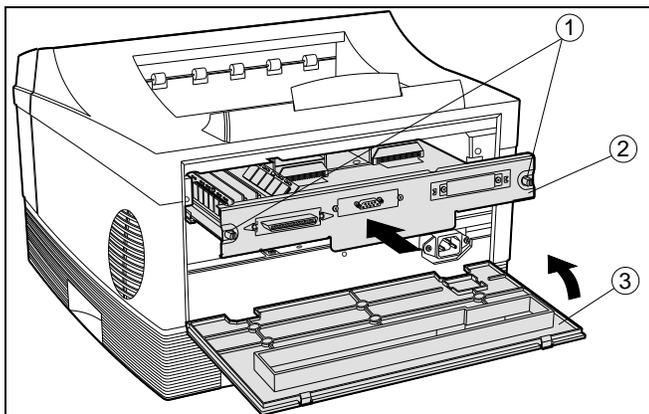
STEP 6



**PLUG THE SERIAL BOARD INTERFACE CONNECTOR INTO LOCATION J7 OR J9 AND SECURE.**

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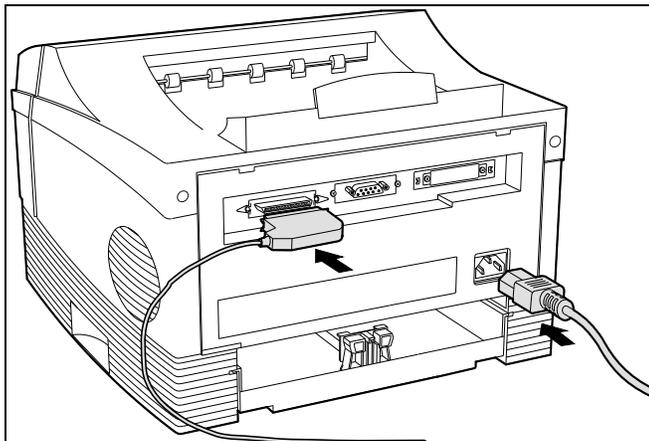
*STEP 7*



**REINSTALL AND SECURE THE CONTROLLER BOARD  
AND CLOSE THE REAR COVER.**

- 1 Thumbscrews
- 2 System Controller Board
- 3 Rear Cover

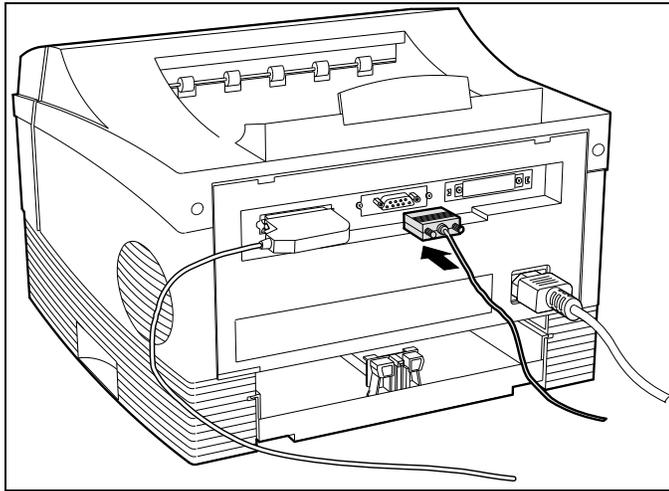
*STEP 8*



**RECONNECT ALL CABLES.**

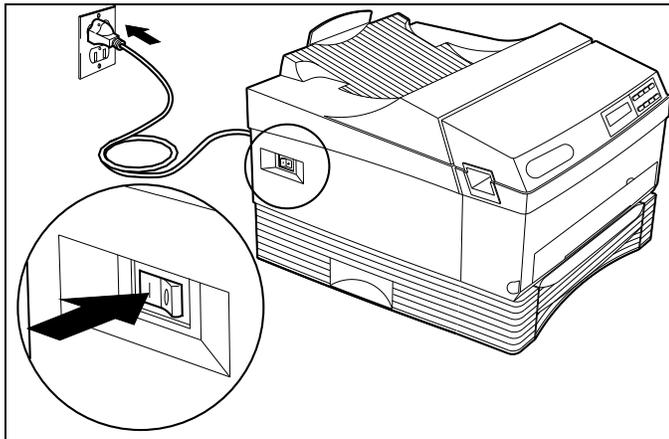
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*STEP 9*



**ATTACH ONE END OF THE SERIAL CABLE TO THE PRINTER AND ATTACH THE OTHER END TO THE SERVER OR HOST COMPUTER.**

*STEP 10*



**PLUG IN AND TURN ON (I) THE PRINTER.**

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*STEP 11*

**PRINT A HARDWARE REPORT.**

Using the printer control panel:

1. Press the **Menu** key. The printer is placed offline and in menu mode.
2. Go to the Reports menu to print a Hardware Report.
3. After printing the report, press **Online (En ligne, Inlinea, En línea)** to place the printer back online.
4. Verify that the serial interface is listed on the report.

Refer to the Hardware Report for the serial interface defaults. Defaults can be changed through the printer control panel. For information on how to use the control panel and explanations for serial interface options, see the printer *User's Guide*.

**TROUBLESHOOTING**

If the option you just installed is not listed on the Hardware Report, you should:

1. Make sure that the board is properly installed and fully seated in the J7 or J9 slot.
2. Make sure that all cables are in good working order and securely connected to the printer and to the server or host computer.
3. Reprint the Hardware Report.
4. If the serial interface is still not listed, contact your Authorized Service Provider.