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Preface

The DEClaser 1152 printer uses electrophotographic laser technology to print text and graphics at speeds up to 4 pages per minute with a density of 300 x 300 dots per inch. The printer is designed as a desktop printer for printing up to 6,000 prints per month.

Features

Some of the features of the DEClaser 1152 printer include:

- Support for PostScript Level 2
- Capacity for two external Digital Adobe PostScript font cartridges
- PCL4 emulation
- Font downline loading capability
- Support for serial, parallel, and LocalTalk interfaces
- Convenient user maintenance (one replaceable supply cartridge)
- Ability to print on paper, envelopes, labels, and transparencies
- Selectable faceup or facedown document delivery
- Easy-to-read liquid crystal display (LCD) for printer messages
- Non-ozone producing

Software Requirements

The availability of some features of the DEClaser 1152 printer depends on the operating software used by the host computer system and your particular application software. For information about the printer features you can use with your application program, consult your application program documentation. For help choosing the right software package for your application, contact your Digital sales representative.

Document Structure

This guide focuses on the installation and operation of the DEClaser 1152 printer and explains how to use and maintain the printer hardware.

This guide is organized as follows:

- Chapter 1, Printer Components—Components and features of the printer
- Chapter 2, Operating Information— Operating procedures such as loading paper and adjusting print density
- Chapter 3, The Control Panel—Use of the printer's control panel. It describes operational information about the indicators, keys, and message display.
- Chapter 4, Printer Configuration— Configure the printer to communicate with your computer system. You configure the printer by selecting features and their associated values from the various setup menus.
- Chapter 5, Print Media—Describes various printing media used with the printer, including paper, envelopes, transparencies, and labels. Addresses the proper way to store and handle print media.
- Chapter 6, Troubleshooting—Basic testing and troubleshooting techniques to correct common operating problems.
- Chapter 7, Maintenance—Care and maintenance of the printer. Describes how to replace the electrophotographic laser (EP-L) cartridge, and clean the printer.
- Chapter 8, Service—How to obtain service for the printer.
- Appendix A, Accessories and Supplies— Accessories and supplies available for the printer, also ordering information.
- Appendix B, Specifications—Power, environmental, and physical specifications of the printer.
- Appendix C, Options Information— Information on the PostScript font cartridge and the paper feeder unit.
- Glossary—definitions of printer-related terms.

You can order additional copies of this document from DECdirect as described in the ordering information section at the end of this guide.

Safety Information

The DEClaser 1152 printer complies with all United States government safety regulations applicable to laser beam light exposure. Read the following information to become familiar with laser safety.

Laser Safety

The DEClaser 1152 printer complies with 21 CFR Chapter 1, Subchapter J, as a Class 1 laser product under the U.S. Department of Health and Human Services (DHHS) Radiation Performance Standard according to the Radiation Control for Health and Safety Act of 1968. The printer does not emit hazardous light since the laser beam is totally enclosed during all modes of customer operation and maintenance.

Warning

Use of controls or adjustment procedures other than those specified in this manual may result in hazardous laser light exposure.

CDRH Regulations

The Center for Devices and Radiological Health (CDRH) of the U.S. Food and Drug Administration implemented regulations for laser products on August 2, 1976. These regulations apply to laser products manufactured beginning August 1, 1976. Compliance is mandatory for products marketed in the United States.

1

Printer Components

This chapter describes the components and their functions of the DEClaser 1152 printer. This chapter also provides information about the operating space required to perform day-to-day printing operations.

1.1 Functions of the Printer Components

Figure 1–1 shows the components of the front, right-side view of the DEClaser 1152 printer. Table 1–1 explains their functions.

Figure 1–1 Components: Front, Right-Side View

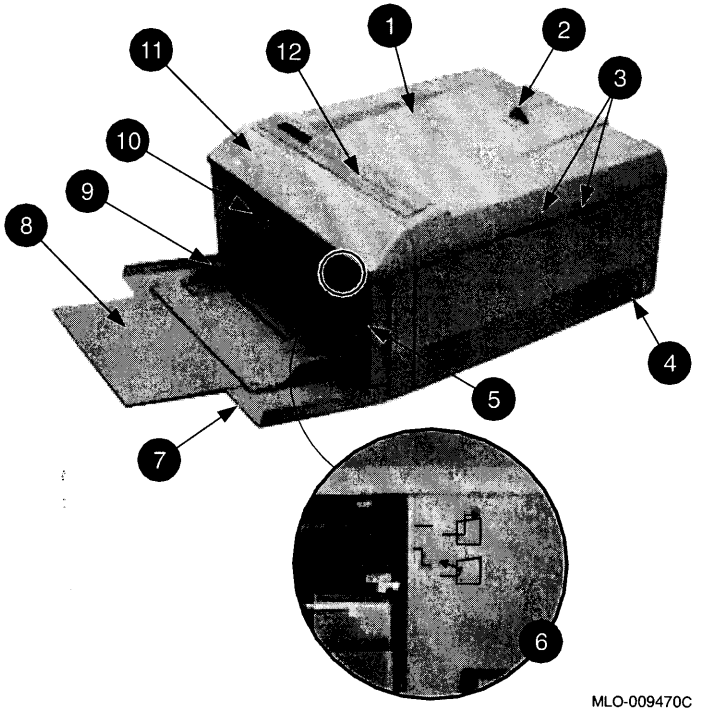

Table 1–1 Functions of Printer Components: Front, Right-Side View

Item	Component	Function
❶	Top output tray	Printed sheets are automatically collated and stacked (facedown) here.
❷	Paper stop	Stops the printed paper as it exits the printer. The paper stop helps to stack the paper neatly and can be adjusted for A4-size, letter-size (LTR), or legal-size (LGL) paper.
❸	Font cartridge slots	These two slots accept the optional font cartridges available for the printer.

(continued on next page)

Table 1–1 (Cont.) Functions of Printer Components: Front, Right-Side View

Item	Component	Function
❹	Power switch	Powers the printer on or off. Pressing " | " turns the power on; pressing "O" turns the power off. To ensure that data is not lost, always be sure the message display reads **PS READY/IDLE** and the Data indicator is off before you power off the printer.
❺	Front cover release button	Lifting this button unlocks the front cover so it can be opened. Open the front cover to perform certain printer functions such as replacing the EP-L cartridge or clearing a paper jam.
❻	Output tray selector	This selector chooses the output delivery tray. The top position sends paper facedown to the top output tray. The bottom position sends paper faceup to the front output tray. Refer to Figure 2–1 and Figure 2–2.
❼	Paper tray	The paper tray holds paper, transparencies, labels, or envelopes and automatically feeds them into the printer. It can hold approximately 70 sheets of 75 g/m^2 basis weight paper (20 lb.). See Section 2.3.
❽	Extension tray	The extension tray pulls out to support paper or envelopes.
❾	Adjustable paper guide	The adjustable paper guide slides to the left or right to accommodate the paper size you are using. The paper guide minimizes paper jams by aligning the paper so that each sheet of paper enters the printer properly. See Section 2.3.
❿	Fixing assembly cover	The fixing assembly cover can be opened to access paper jams in the fixing assembly. See Section 6.5 about clearing paper jams.
⓫	Front cover	The front cover opens so you can replace the EP-L cartridge, adjust the print density, and access printer components.
⓬	Control panel	The control panel consists of a message display, indicator lights, and a keypad. The control panel provides information on printer status and can be used to perform certain printer functions such as resetting the printer or configuring the printer. See Chapter 2 about using the control panel while printing. Chapter 3 has information about using the control panel to configure the printer.

(continued on next page)

Table 1–1 (Cont.) Functions of Printer Components: Front, Right-Side View

Item	Component	Function
⓭	Front output tray (not shown)	The front output tray is used when you want to stack documents faceup. Refer to Figure 2–1 and Figure 2–2.

Figure 1–2 shows the components of the rear, left-side view of the DEClaser 1152 printer. Table 1–2 explains their functions.

Figure 1–2 Components: Rear, Left-Side View

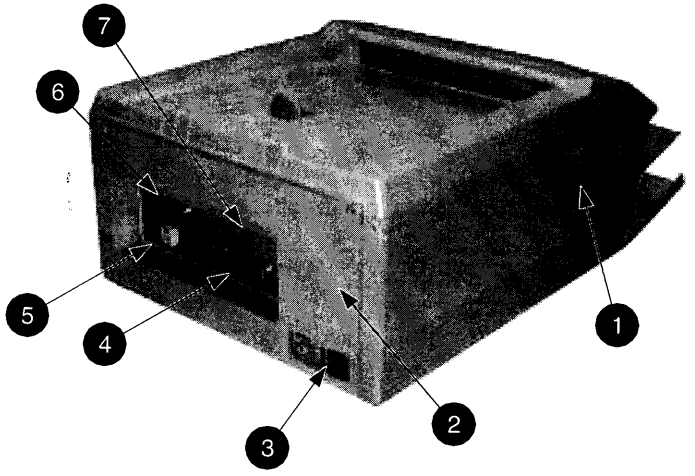

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Table 1–2 Functions of Printer Components: Rear, Left-Side View

Item	Component	Function
❶	Air vent	The cooling fan exhausts air through this vent. Be sure that the printer has adequate space around it to ensure proper ventilation.
❷	Memory board access cover	Optional RAM (random-access memory) can be added to the printer. This access cover allows you to install the optional memory board easily.
❸	Power cord receptacle	This is where the power cord is connected to the printer.
❹	Parallel (Centronics) interface cable connector	This connector is used when the interface cable from the host computer is a parallel cable.
❺	DEC423 serial connector	This connector is used when the interface cable from the host computer is an EIA-423 MMJ serial cable (DECconnect).
❻	EIA-232 serial connector	This connector is used when the interface cable from the host computer is a serial RS232 cable.
❼	LocalTalk/SerialB connector	This connector can be used as a serial RS-422 communication device.

Figure 1–3 shows the components inside the printer. Table 1–3 explains their functions.

Figure 1–3 Components: Inside the Printer

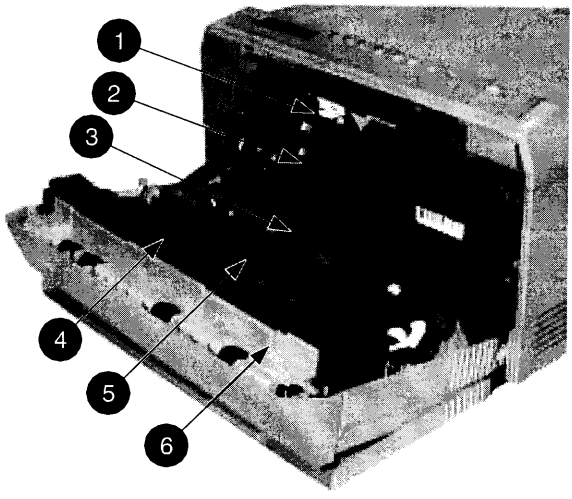

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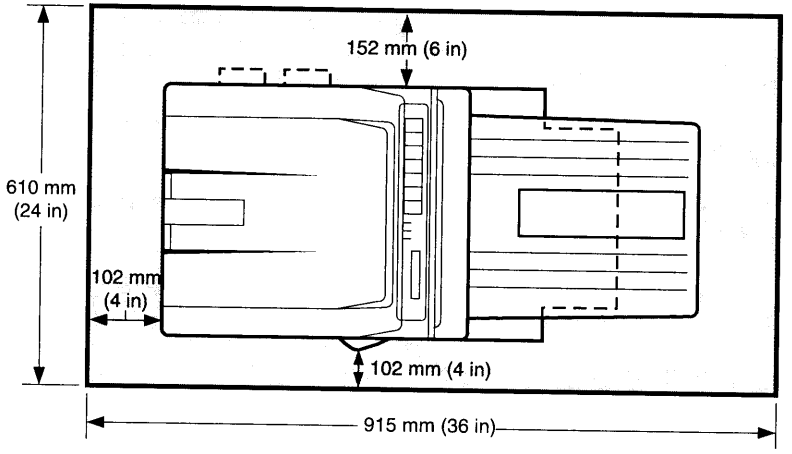
Table 1–3 Printer Components: Inside View

Item	Component	Function
❶	Print density adjustment switch	Slide this switch to the left to lighten the print. Slide this switch to the right to darken the print. See Section 2.8.
❷	EP-L cartridge	The EP-L cartridge contains a photosensitive drum, a primary charge roller, the drum cleaning unit, toner, and a developing unit.
❸	Pickup roller	The pickup roller feeds the paper from the paper tray into the printer.
❹	Fixing assembly	The fixing assembly consists of a heat roller and a pressure roller. Toner is bonded to the paper as it passes between the heat and the pressure rollers. **Warning** The rollers in the fixing assembly may be hot. Be careful when accessing this area.
❺	Transfer roller	The transfer roller is negatively charged to attract the more positively charged toner from the photosensitive drum. The transfer roller transfers the toner from the drum to the paper. **Caution** Do not touch the transfer roller. Fingerprints can contaminate the roller surface. The transfer roller should be clean at all times to ensure optimum print quality.
❻	Paper access cover	This cover can be opened to access paper jams. See Section 6.5.

1.2 Required Operating Space

Always allow ample space around the printer to perform day-to-day printing operations. Figure 1–4 shows the minimum amount of space required to perform these operations.

Figure 1–4 Operating Space: Top View



2

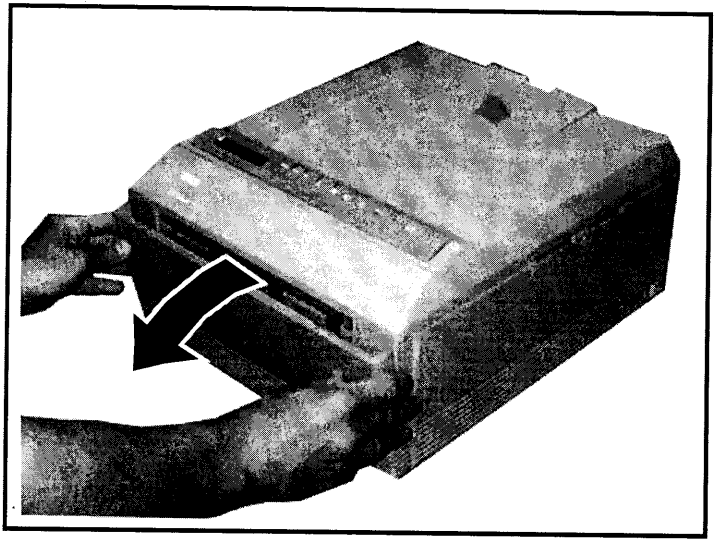
Operating Information

This chapter provides the operating information necessary to perform day-to-day printer operations. It covers typical tasks such as adding paper and selecting an output tray.

2.1 Opening the Paper Tray

Open the paper tray using the following procedure.

1. Pull the paper tray toward you.



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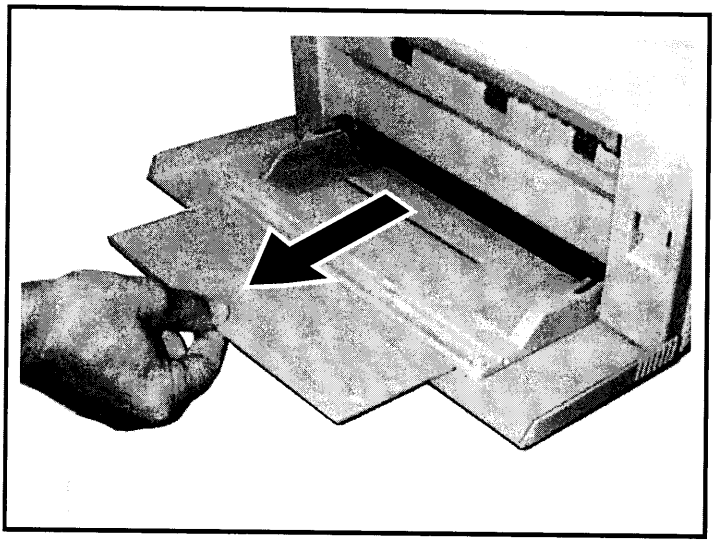
2. Pull the extension tray straight out.



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2.2 Adding Paper

The printer has a built-in paper tray that can accept paper, transparencies, labels, and envelopes. The tray incorporates a convenient adjustable paper feed guide allowing it to accommodate various media sizes including the following:

- Legal size paper (8.5 in. x 14.0 in.).
- Letter size paper, transparencies, and labels (8.5 in. x 11.0 in.)
- A4 size paper, transparencies, and labels (210 mm x 297 mm)
- Executive size paper (7.25 in. x 10.5 in.)
- Envelopes ranging in width from 97 mm to 216 mm (3.8 inches to 8.5 inches) and in length from 148 mm to 356 mm (5.8 inches to 14.0 inches)

Refer to Table 4–10 for a complete list of paper sizes supported in the paper tray.

2.2.1 Paper Tray Capacity

The paper tray can hold up to 70 sheets of 20 lb. (75 g/m^2 basis weight) paper. Up to five envelopes can be stacked in the paper tray. There are optional paper cassettes available to accommodate various sizes of paper. A paper cassette holds 250 sheets of 20 lb. paper. For ordering information about the optional paper feeder and cassettes, see Appendix A.

2.2.2 Hints for Paper Use

Here are some general guidelines to follow about the paper used in the printer:

- Use high-quality paper such as the papers listed in Appendix A.
- Avoid using any paper that is creased, folded, clipped, stapled, or damaged.
- To prevent paper curl (a curve in the paper), stack the paper on a flat surface for storage.
- Prevent changes to the moisture content of the paper by storing it properly and rewrapping unused portions. Do not store paper directly on the floor.

Complete specifications for print media are in Chapter 5. For more detailed print media information, consult the *Digital Laser Printers Guide to Paper and Other Media* (see Appendix A for ordering information).

2.3 Loading the Paper Tray

The loading procedure is the same whether you are adding paper, labels, or transparencies to the paper tray. If you are adding envelopes to the paper tray, see Section 2.6.1 for instructions.

Note

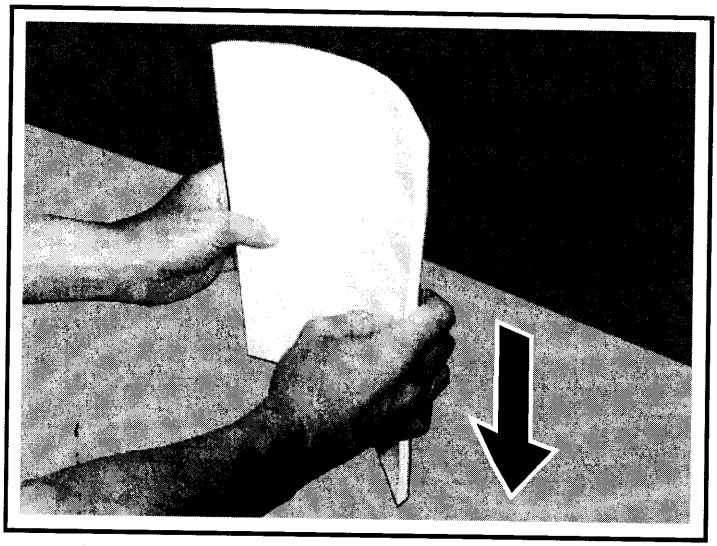
Forms, envelopes, and letterhead paper must be loaded facedown into the paper tray to print on the correct side. The front output tray should be used for printing on envelopes, labels, or transparencies.

Add paper to the paper tray using the following procedure.

1. Be sure the printer is not printing and the display reads **PS READY/IDLE** (or **11 OUT OF PAPER**) before adding paper.

2. Slide the adjustable paper feed guide to the left if you are changing the paper size.

3. Tap a stack of paper on a flat surface to align the edges.



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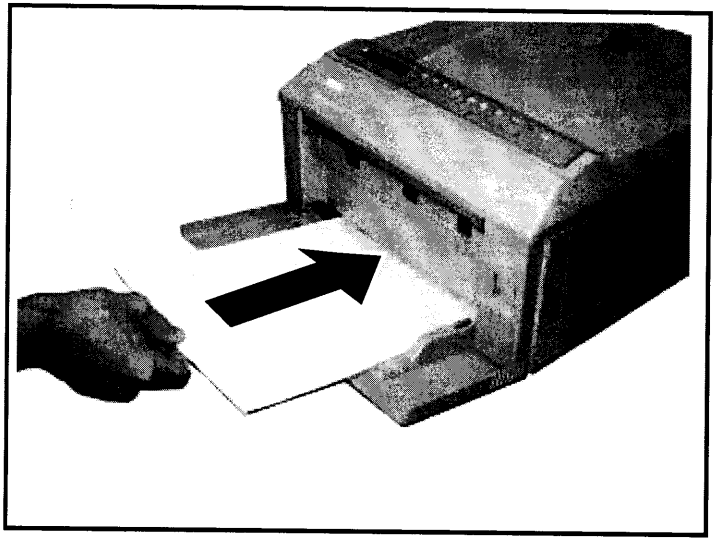
4. Insert the stack of paper into the tray until it stops.
   - The Alarm indicator goes off (if it was on).
   - **PS READY/IDLE** displays on the control panel.

Note

The right edge of the paper should touch the paper feed guide. Forms and letterhead paper are loaded facedown, with the top edge facing the printer.



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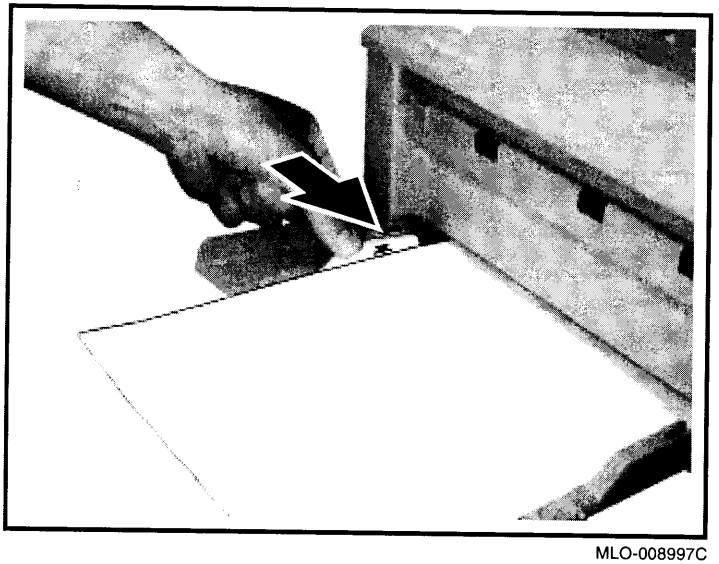
5. Slide the adjustable paper feed guide to the right (if necessary) until it just touches the paper stack.

Notes

Do not press the adjustable paper guide against the stack of paper so tightly that it restricts movement of the paper into the printer.

Make sure the paper lays perfectly flat in the tray.

Be sure the paper is below the paper height guides and not above the paper limit line.



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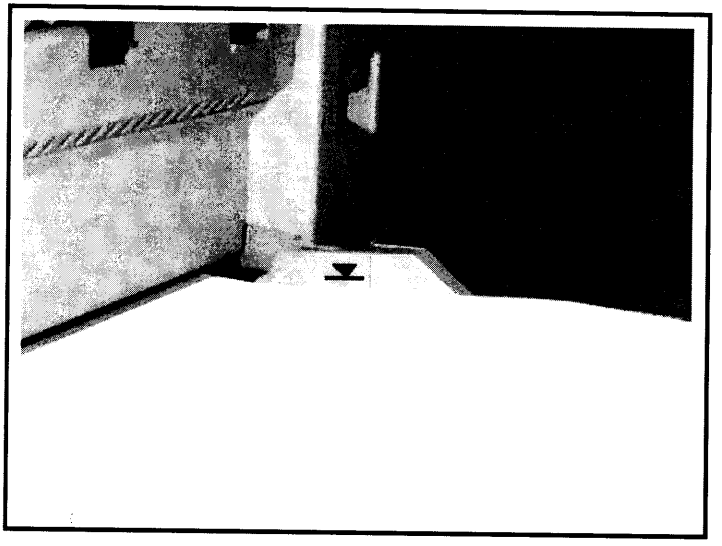

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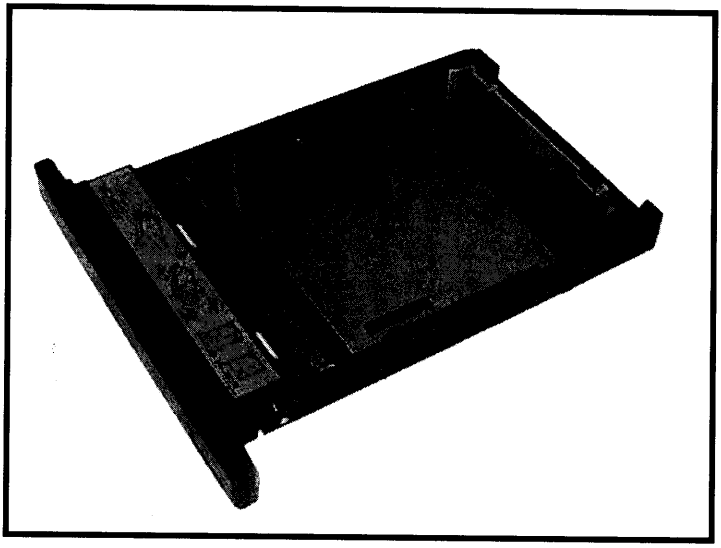
2.4 Loading the Paper Cassette

The following instructions apply to the following paper cassettes: A4 size, executive size, and letter size. Refer to Appendix C for instructions on how to load paper into the legal size cassette and the envelope cassette.

1. Be sure the paper cassette matches the paper size on which you are printing.



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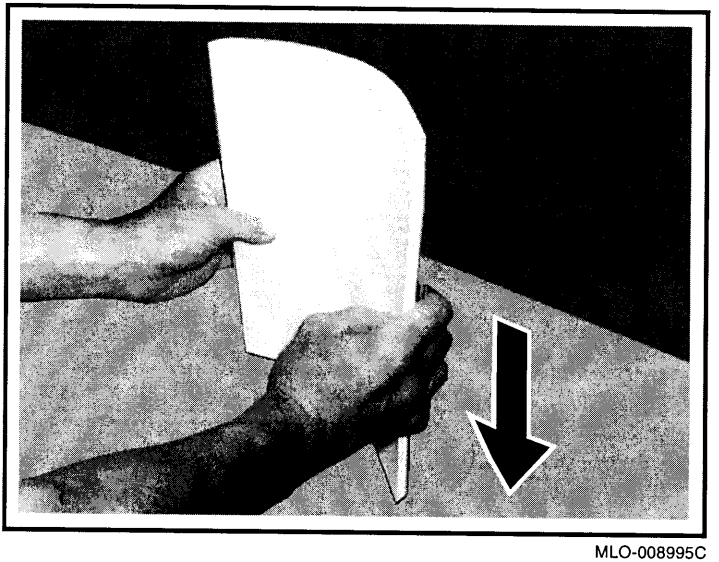
2. Tap the stack of paper on a flat surface to align the edges.



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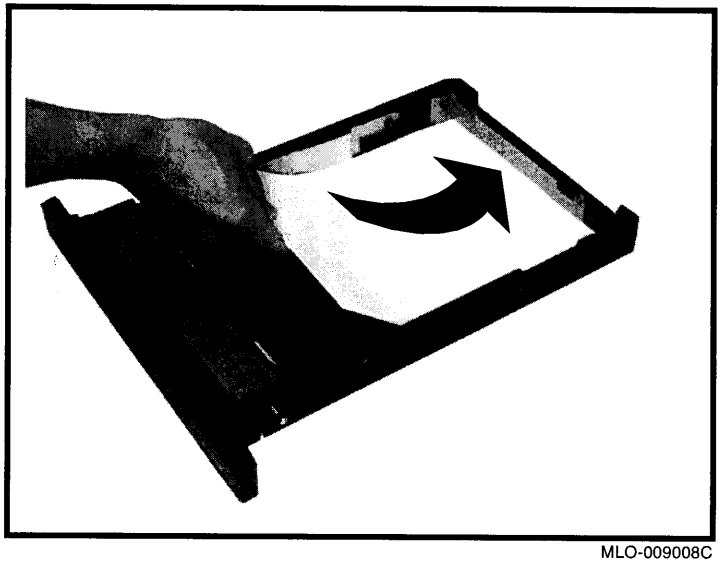
3. Load paper into the paper cassette by first inserting it into the back of the cassette as shown in the following illustration.

Note

Make sure the paper does not exceed the quantity limit guide on the side of the paper cassette. The paper cassette can hold about 250 sheets of 75 g/m^2 (20 lb.) paper.



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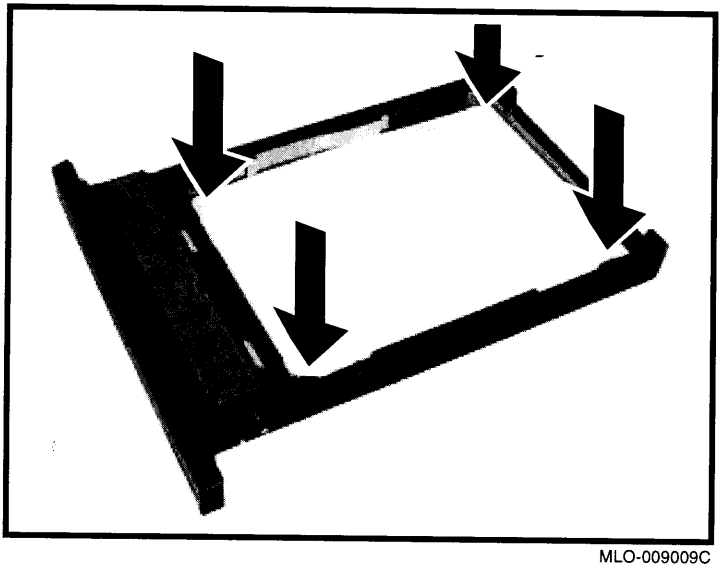
4. Press down on the four corners of the paper stack to ensure that the paper is flat in the cassette. The paper stack must be beneath the retaining clips at the front and the back of the cassette.



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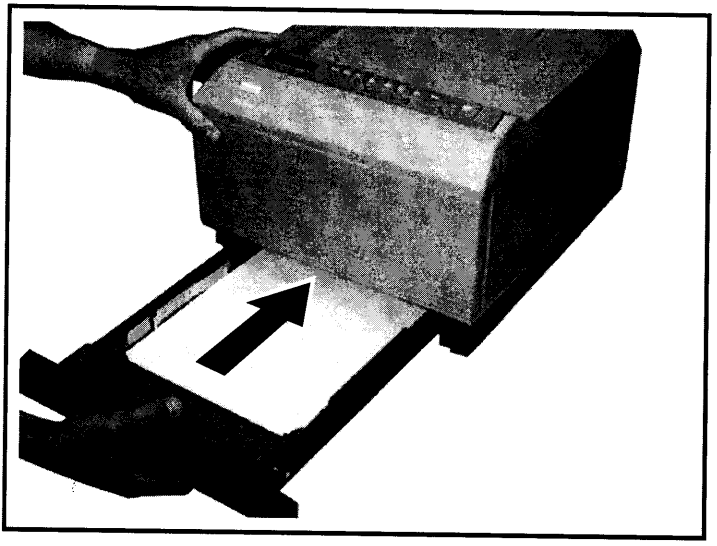
5. Insert the paper cassette, and push it into the paper feeder unit until it stops.



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2.5 Changing the Page Format Size

You do not have to change the page format size to match the paper size you are using. The printer determines the paper size you have loaded in the cassette and determines if it is compatible with the page format size you have indicated with your document.

Notes

The default paper tray size for 120V model printers is LETTER; for 220/240V model printers the default size is A4.

In the Set Factory Defaults menu the "A" setting is LETTER size paper; the "B" setting is A4 size paper.

2.6 Printing on Envelopes

The setup requirements for printing envelopes are defined by the application program you are using. Consult your application's documentation for details about its envelope printing feature.

If your application does not have an envelope printing feature, you need to set up your address files using commands that instruct the printer to print in the correct location on the envelope.

For trouble-free operation, be sure to use envelopes of an appropriate type for laser printers. Refer to Section 5.2 for envelope specifications.

2.6.1 Loading Envelopes

Always use the front output tray when printing envelopes. See Section 2.7 for information about selecting and installing the front output tray. For clarity, the illustrations in the following procedure do not show the front output tray in place.

Check the following before loading envelopes:

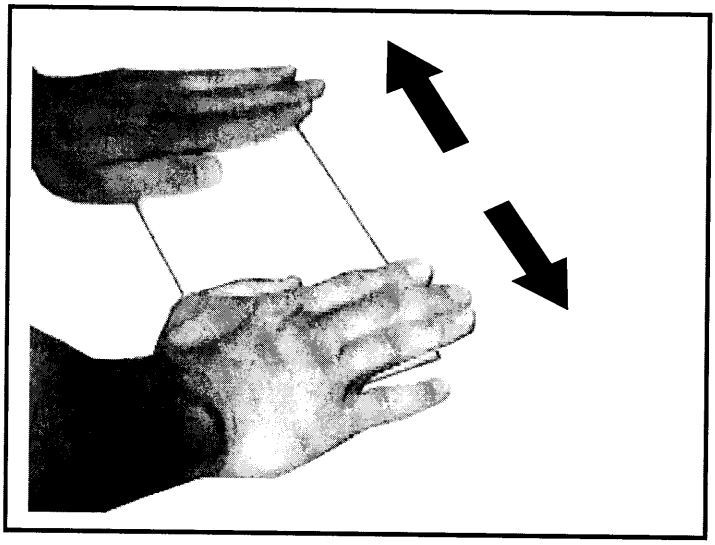
- The sealing flap should run along the length of the envelope, not at the leading or trailing edges.
- The sealing flap should be folded properly, with none of the glue exposed.
- The leading and trailing edges should not be more than two layers thick.
- The envelope should be free of any wrinkles or creases.
- Remove curled envelopes from the stack and correct all creased corners.

Caution

Using envelopes made of artificial materials (nonpaper), or those that have fasteners, snaps, or windows, can cause serious damage to the printer. See Section 5.2.

Use the following procedure to load envelopes in the paper tray.

1. Place one to five envelopes on a flat surface and press down across the surface to expel the air and flatten them.



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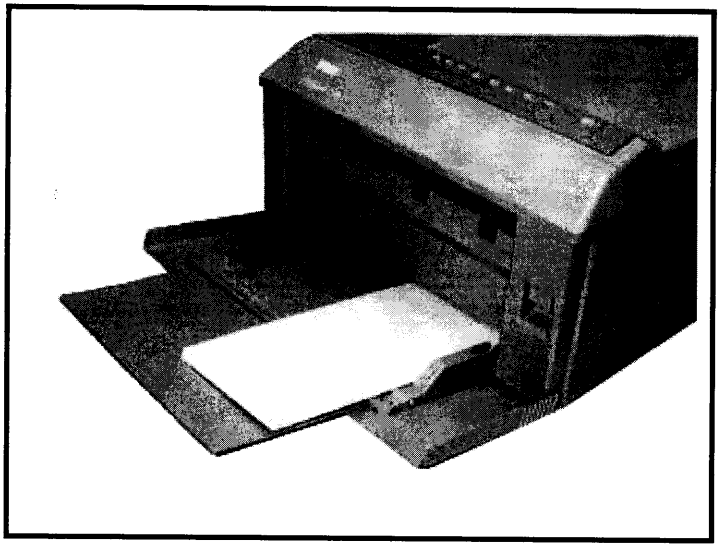
2. Align the stack of envelopes by tapping them on a flat surface.
3. Slide the adjustable paper feed guide to the left side of the paper tray if you are loading a new size of envelope.

4. Insert the envelopes into the tray with the address side facing up.
   - The Alarm indicator goes off (if it was on).
   - **PS READY/IDLE** displays on the control panel.

Notes

Load envelopes facedown so that the top edges are touching the paper feed guide on the right side of the tray.

The envelopes should lay as flat as possible in the tray.



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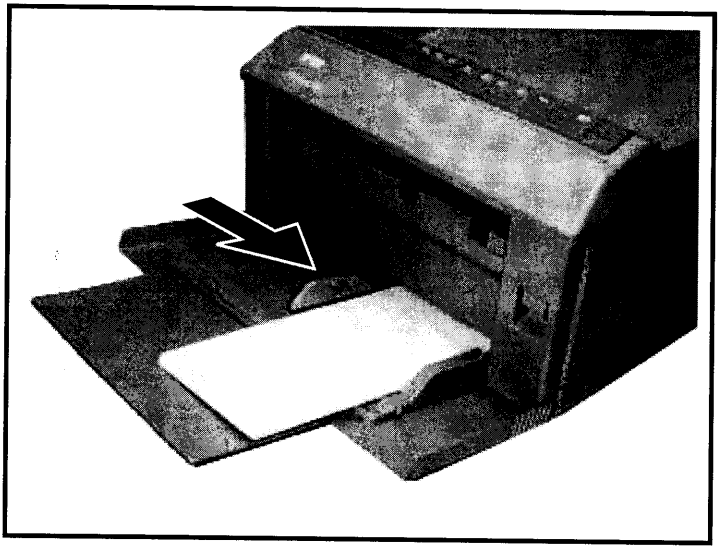
5. Slide the paper feed guides until they just touch the envelopes.

Notes

Do not press the adjustable paper guides against the stack of envelopes so tightly that they restrict movement of the envelopes into the printer.

Be sure the envelopes are below the paper height guides and not above the paper limit line.



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2.7 Selecting the Output Tray

The DEClaser 1152 can deliver printed output either faceup or facedown, as shown in Figure 2–1 and Figure 2–2. Output tray selection is accomplished by setting the output tray selector to the top or front tray position. You cannot select the output paper tray through a command from the host computer; setting the output tray selector is the only way to choose the output tray.

Figure 2–1 Facedown Printing

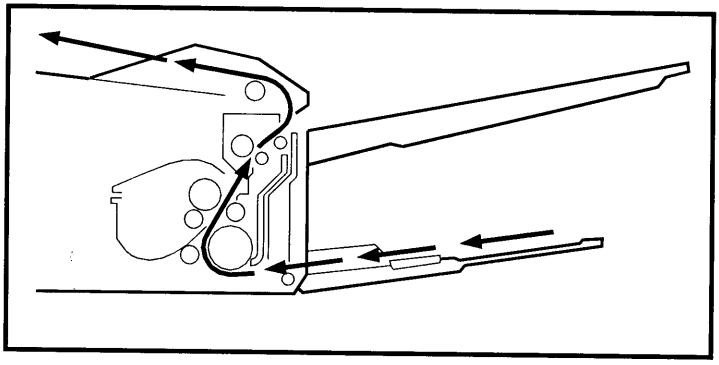

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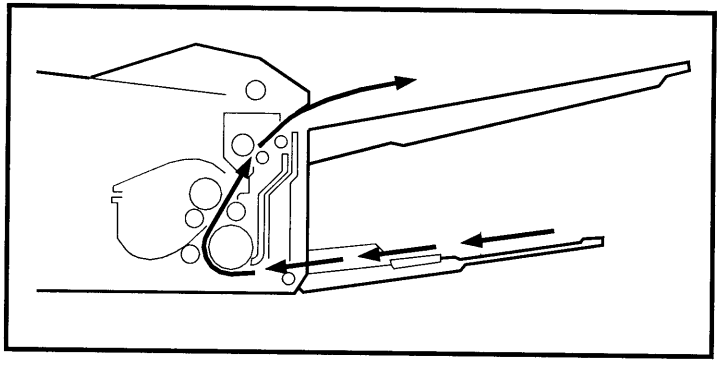
Figure 2–2 Faceup Printing



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When the selector is set to the . . .	The result is . . .
Top output position	Printed paper is delivered facedown to that tray. This allows your print job to be collated in the correct page order.
Front output position	Printed paper is delivered faceup to that tray. Although the front output tray can be used to stack paper faceup, it is used primarily to stack envelopes, transparencies, and labels.

Caution

To prevent paper jams, do not exceed output tray paper limit. The maximum is 20 sheets for the front output tray, and 50 sheets for the top output tray. Also, do not try to change the output tray while the printer is printing. Changing the output tray while printing causes paper jams.

2.7.1 Selecting the Top Output Tray

The top output tray can be selected manually when you switch from the front output tray; it is also selected automatically whenever the input paper tray is closed.

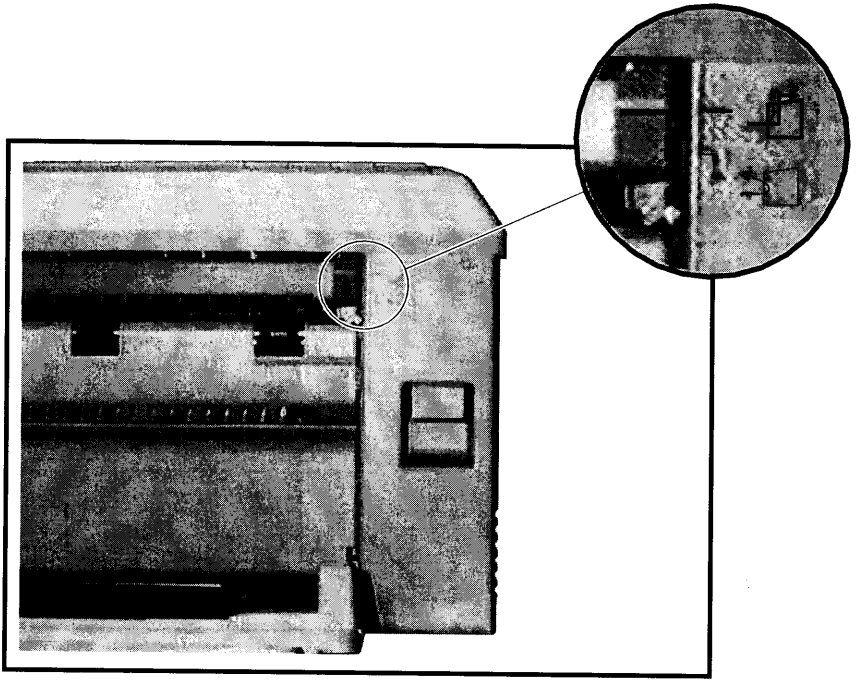
Note

The front output tray must be used for printing on envelopes, labels, or transparencies (see Section 2.7.2).

Use the following procedure to switch from the front output tray to the top output tray.

1. Set the paper stop on the top output tray to the position that accommodates the paper size you are using.
2. Set the output tray selector to the top tray position.

   → The notch on the selector should be aligned with the top tray indicator on the printer.



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2.7.2 Selecting the Front Output Tray

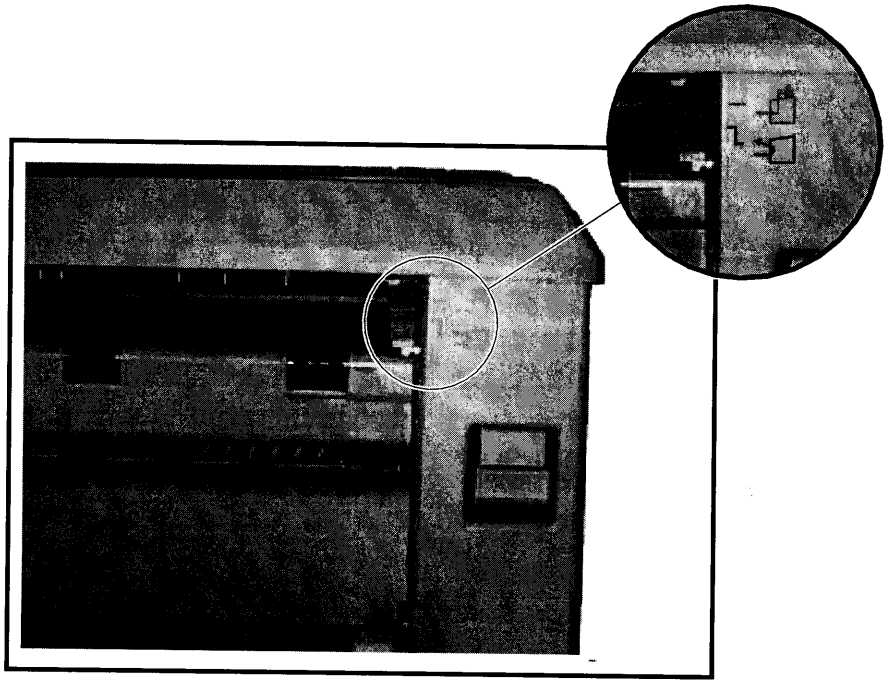
Use the following procedure to select and attach the front output tray.

Note

When printing on transparencies, it is recommended that you remove each sheet from the output tray before the next sheet is printed.

1. Set the output tray selector to the front tray position.

   → The notch on the selector should be aligned with the front tray indicator on the printer.



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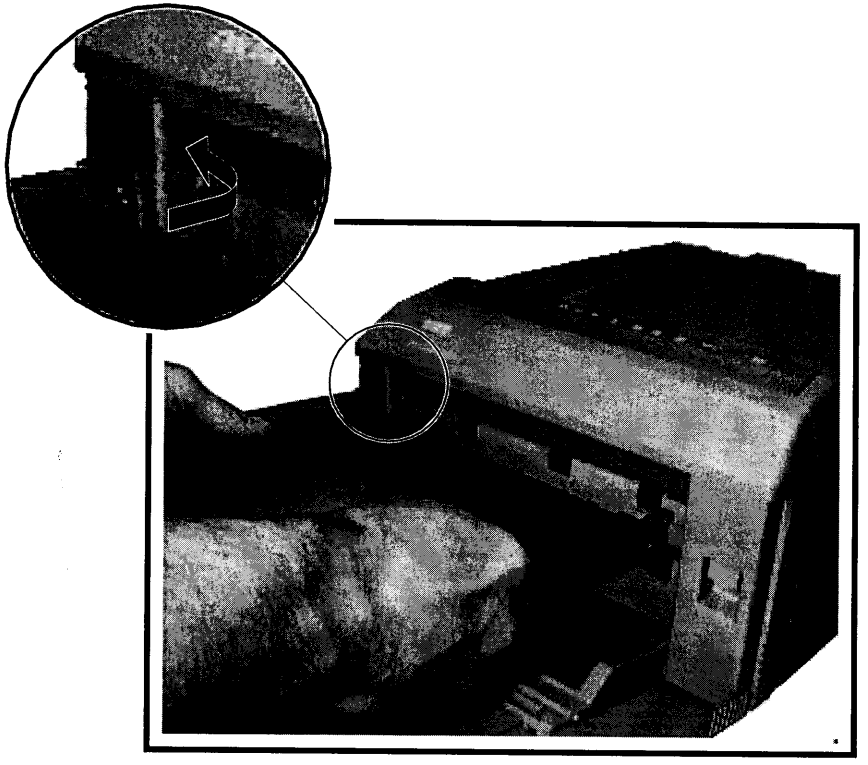
2. Squeeze the output tray slightly to insert its pegs into the top slots of the printer.



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2.8 Adjusting the Print Density

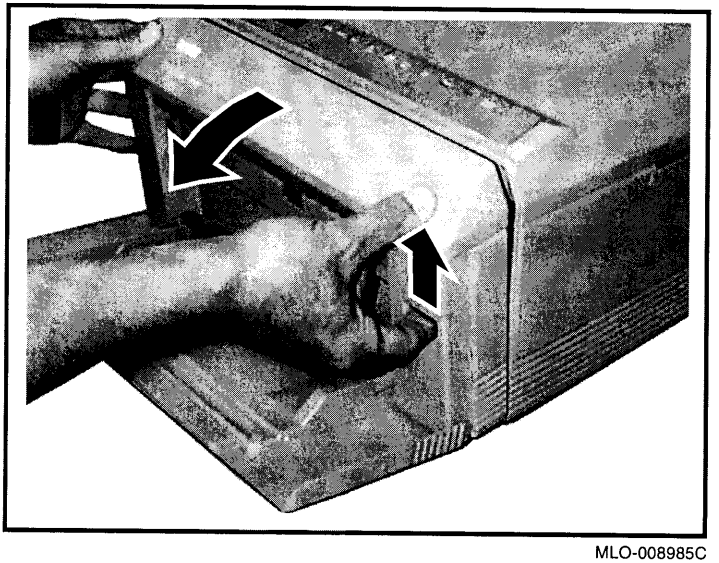
Print density is the amount of toner applied to the paper. The print density adjustment controls the amount of toner applied to the paper to produce a lighter or darker print. You can significantly extend the life of an EP-L cartridge by using the lightest possible print density setting that gives you acceptable print quality.

Note

The EP-L cartridge life can be up to 3,300 A4 or letter size pages. This specification is based on 4% toner coverage with the print density set at its default position.

Use the following procedure to adjust print density.

1. Place the printer off line.
2. Lift up the release button to open the front cover.
   - The Alarm indicator lights.
   - **12 PRINTER OPEN** displays on the control panel.



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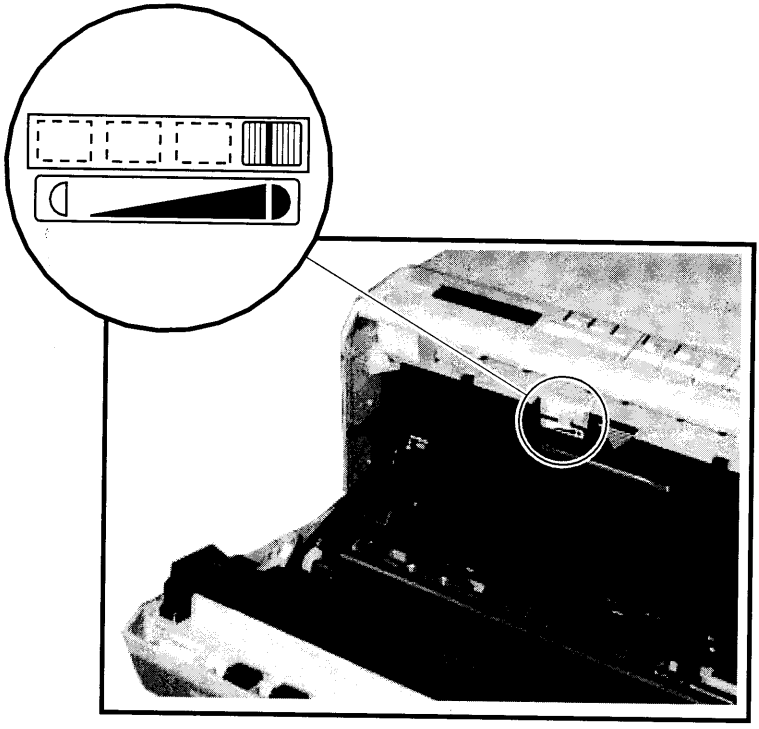
3. Adjust the print density by moving the switch to the right to make the print darker, or to the left to make the print lighter.

Notes

The print density adjustment has four settings. As you move the switch, it clicks at each of the middle settings.

The default setting is the third from the left.



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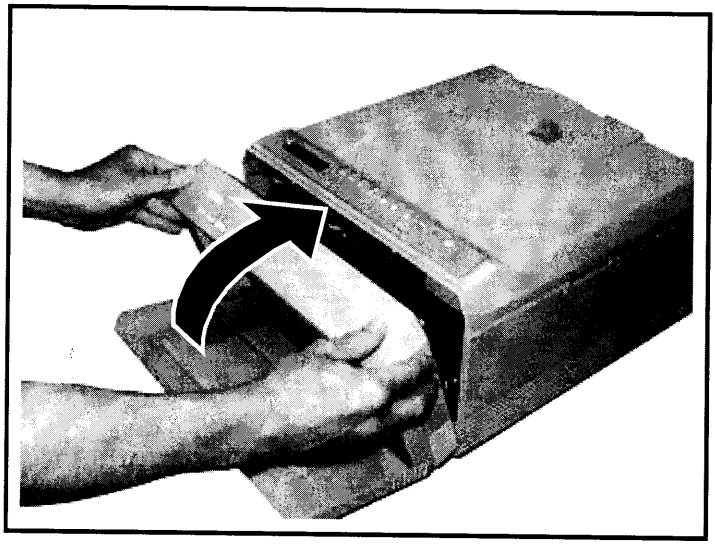
4. Close the front cover by lifting it up and pushing it in until it latches securely.
   - The Alarm indicator goes off.
   - **PS INITIALIZING** (momentarily) then **PS READY/IDLE** display on the control panel.



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5. Place the printer on line.

2.9 Printing A Test Print

You can print a Test Print to see what the current printer settings are before making changes in Menu Mode (see Chapter 3). Instructions for printing the test print follow, and Table 2–1 describes the items on the Test Print page.

Use the following procedure to print a copy of Test Print.

1. Press On Line.
   - The On Line indicator goes off.
   - **PS OFFLINE** displays on the control panel.

2. Press and hold [Test/Font] for less than three seconds.

Note

Holding down [Test/Font] for three seconds or longer causes a cleaning paper to print.

- Test Print prints.
- **PS OFFLINE** displays on the control panel.

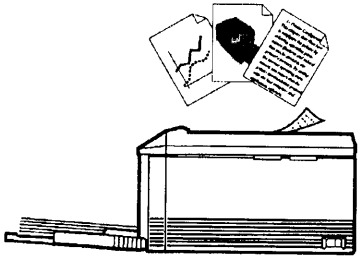
3. Press [On Line].
   - The On Line indicator lights.
   - **PS READY/IDLE** displays on the control panel.

digital™

DEClaser 1152

DEClaser 1152

POSTSCRIPT® Interpreter Version 2011.110 Revision 5 from Adobe Systems Incorporated



989 pages printed.
2 Megabytes of RAM installed.

Defined Font Outlines

Times*-Roman	Helvetica*	Courier
Times-Bold	Helvetica-Bold	Courier-Bold
Times-Italic	Helvetica-Oblique	Courier-Oblique
Times-BoldItalic	Helvetica-BoldOblique	Courier-BoldOblique
Helvetica-Narrow	Symbols Set	Helvetica-Narrow-Bold
Helvetica-Narrow-Oblique		Helvetica-Narrow-BoldOblique

Communications Information

Serial	Parallel	LocalTalk	Serial B
Interpreter: PostScript	Interpreter: PostScript	Interpreter: PostScript	Interpreter: PostScript
Enabled: true	Enabled: true	Enabled: false	Enabled: true
On: true	On: true	On: false	On: true
Protocol: Normal	Protocol: Normal		Protocol: Normal
Baud: 9600, DataBits: 8, StopBits: 1	OutputDevice: Serial		Baud: 9600, DataBits: 8, StopBits: 1
Parity: None, CheckParity: false			Parity: None, CheckParity: false
FlowControl: XonXoff			FlowControl: XonXoff

Cartridge 1:
1
Not Installed.

POSTSCRIPT®
Software From Adobe

Cartridge 2:
2
Not Installed.

MLO-009486S

Table 2–1 Test Print

Item	Description
Version	The version of internal firmware installed in the printer.
Pages printed	The total number of pages printed to date.
Installed RAM	The total megabytes of RAM installed in the printer.
Defined font outlines	Lists the names of the installed fonts.
Communication settings	Shows the current settings of all the communication interfaces. *Note: The Serial and the Parallel sections list the interpreter as LaserJetIIP. The front panel of the printer shows the interpreter as PCL4.*
Cartridge 1/Cartridge 2	Shows the active font cartridge slot.

3

The Control Panel

The control panel consists of a message display, indicator lights, and a keypad. The keypad allows you to perform certain printer functions such as printing test pages or configuring the printer. This chapter explains the features and uses of the control panel.

The layout of the control panel is shown in Figure 3–1 and described in Table 3–1. See Chapter 4 for the key functions when configuring the printer in Menu Mode.

Figure 3–1 Control Panel

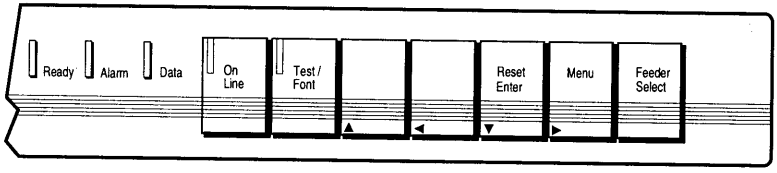


Table 3–1 Control Panel Functions

Item	Function
Message display	Shows the current status of the printer. For example: **PS READY/IDLE** When the printer is in Menu Mode, the display shows the selected menu, feature, or value. Operator panel messages will be the same for both the PostScript and the PCL4 protocols. You should print a test page to determine which protocol is active for a particular port.

(continued on next page)

Table 3–1 (Cont.) Control Panel Functions

Item	Function
Keypad	Some keys on the keypad perform a dual function depending on whether the printer is in Keypad Mode or Menu Mode. In Keypad Mode, the keys perform the primary functions labeled on the keys, such as [Test/Font]. When the printer is in Menu Mode, the keys perform the secondary functions labeled with the dark gray symbols and text, such as < or >. **Note** All keys and related functions (with the exception of [On Line]) work only when the printer is off line.
Ready indicator (green)	Indicates when the printer is ready to print. On: The printer is ready to print. Off: The printer is powered off or an error condition exists (the Alarm indicator is on). Flashing: The printer is warming up.
Alarm indicator (orange)	Indicates that an error condition exists. A beep sounds when the printer first senses an alarm condition. The message display works in conjunction with the Alarm indicator by showing the type of error condition. For example: **12 PRINTER OPEN** The Alarm indicator goes off when the error condition is cleared. See Chapter 5.
Data indicator (green)	Indicates the status of the data sent to the printer. On: Data is being printed or is still in the print buffer. Off: All data has been printed. Flashing: Data is being received from the host computer. **Note** Data is lost if you power off the printer when the Data indicator is on or is flashing.

(continued on next page)

Table 3–1 (Cont.) Control Panel Functions

Item	Function
On line indicator (green)	Works in conjunction with [On Line] to indicate when the printer is on line or off line (see [On Line]) in Table 3–2. On: The printer is on line and controlled by the host computer. The host computer can send data to print and commands to control the printer. Off: The printer is off line and can receive but not act on any data or commands from the host computer. It can be controlled using the keys on the control panel. Flashing: [On Line] was pressed while the page was printing. The printer will go off line after the current job is finished.
Test/Font indicator (green)	This indicator is normally off. On: A cleaning page is being printed.

3.1 Entering Keypad Mode

Table 3–2 describes the key functions in Keypad Mode.

Use the following procedure to enter Keypad Mode.

1. Press [On Line].
   - The On Line indicator goes off.
   - The keypad is in Keypad Mode.
   - **PS OFFLINE** displays on the control panel.

Table 3–2 Keypad Functions: Keypad Mode

Key	Function
On Line	Pressing this key alternates the printer between the online mode and offline mode. The mode is indicated by the green light on the key. On: The printer is on line and controlled by the host computer. The host computer can send data to print, as well as commands to control the printer. Off: The printer is off line and can receive but not act on any data or commands from the host computer. It can be controlled using the keys on the control panel.
Test/Font	Test/Font performs two functions in Keypad Mode: – Pressing the key once prints Test Print (see Section 2.9). – Pressing and holding the key down for at least three seconds prints the cleaning paper (see Section 7.3).
Menu	Places the printer in Menu Mode and displays the first menu: **INTERFACE**. Refer to Section 4.2 for more information about Menu Mode.
Feeder Select	Pressing Feeder Select momentarily alternates between the paper tray feeding and cassette feeding modes. If an optional paper cassette is not installed, only the paper tray feeding mode is shown on the display.

3.2 Using the Keypad in Menu Mode

Configure the printer by selecting certain parameters (features and values) while in Menu Mode. You select these parameters using keypad keys that function differently when the printer is in Menu Mode. Chapter 4 covers printer configuration and explains the use of the keypad in Menu Mode.

4

Printer Configuration

This chapter describes how to configure the printer by selecting operating parameters (features and values) that can be stored in the printer's memory. By selecting the correct operating parameters, you ensure the printer communicates properly with the host computer and application software.

You select these parameters when the printer is in Menu Mode.

When you change parameter values from the control panel, they are saved in RAM and NVRAM until you change them again. Feeder Select is the only menu choice whose parameter values go back to their default settings when the printer is powered down. All other parameter values retain their changed settings.

For factory default settings, you must use the control panel and select the Set Factory Defaults option in the Miscellaneous Menu. The choice "A SETTING" is for letter size paper. The choice "B SETTING" is for A4 size paper.

To set the printer default values using software, see the description for the system parameter **FactoryDefaults** in the *PostScript Language Reference Manual Supplement.*

You can access some menu features by using commands from the host computer; you can select others only from the control panel. This chapter describes how to select features using the control panel.

4.1 Communications

The DEClaser 1152 printer has the following communications interfaces:

Serial
SerialB or LocalTalk
Parallel (Centronics)

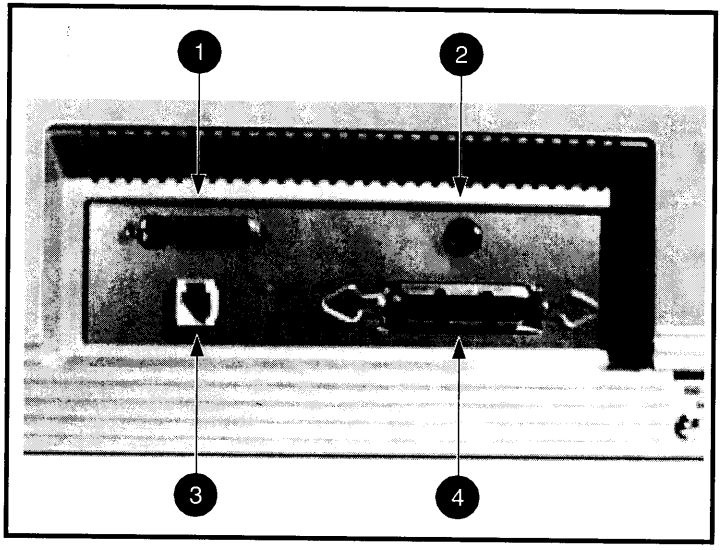
The SerialB and the LocalTalk interfaces share the same connector. See the following table and Figure 4–1 for the location of these connectors.

Caution

Two separate serial data sources must not be connected to both the 6-pin MMJ connector and the 25-pin D-SUB connector simultaneously.

Interface Connectors	
❶ EIA-232 Serial (25-pin D-SUB)	❷ LocalTalk/SerialB (8-pin MINI DIN)
❸ DEC423 Serial (6-pin MMJ)	❹ Parallel (36 pin D-SUB)

Figure 4–1 Interface Connections



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PostScript level 2 allows multiple interfaces to be enabled simultaneously. You control these multiple interfaces through the manipulation of the parameter **Enabled** found in each of the parameter sets and accessed from the front panel. See Table 4–4, Table 4–6, and Table 4–7 for the parameter sets.

The DEClaser 1152 printer requires careful consideration when using the LocalTalk Network communications channel. Data integrity will not be insured if the Serial communications channel is used simultaneously with LocalTalk, even though both the Serial and the LocalTalk channels are enabled by default.

The default configuration of the DEClaser 1152 is to have the following communications channels enabled. This configuration enables the printer to be connected in most single-host environments without requiring non-volatile changes from the front panel.

Parallel
Serial
LocalTalk

The following list describes the recommended multiple-host configurations.

- Parallel + Serial
- Parallel + SerialB
- Parallel + Serial + SerialB
- Parallel + LocalTalk
- Serial + SerialB

Note

Enabling LocalTalk will explicitly disable SerialB, and enabling SerialB will explicitly disable LocalTalk. All other communications channels can be enabled and disabled without generating a **configurationerror** or explicitly modifying another channel.

4.2 Entering Menu Mode

When the printer is in Menu Mode, use the keys labeled with dark gray text and symbols function to select parameters from the menu. Instructions for entering Menu Mode follow the Note.

Note

With the exception of [On Line], all keys operate only when the printer is off line.

To enter Menu Mode:

1. Press [On Line].
   - The On Line indicator goes off.
   - **PS OFFLINE** displays on the control panel.
2. Press [Menu].
   - The printer is now in Menu Mode.
   - **INTERFACE** displays on the control panel.

4.2.1 Keypad Functions in Menu Mode

Table 4–1 describes the function of the Menu Mode keys. After reading the description of the Menu Mode keys, you may want to try using the keys to better understand their operation. See Section 4.5.1 for an example of how to use the Menu Mode keys to configure the printer.

Table 4–1 Keypad Functions: Menu Mode

Key	Function
[▷]	Performs two functions: – Displays the menus and features to the right – Increases numeric values
[◁]	Performs two functions: – Displays the menus and features to the left – Decreases numeric values
[△]	Returns the front panel to the previous level of operation
[Enter/▽]	Performs two functions: – Advances to the next menu level – Selects the displayed value
[On Line]	Exits Menu Mode and returns printer operation on line

4.3 Reading the Display in Menu Mode

Printer status and operator call messages are shown on the message display in uppercase letters. Examples of such messages are **PS READY/IDLE** and **11 PAPER OUT**. Top-level menu items display in uppercase. Selected values become uppercase immediately upon selection.

4.4 Operating Memory

The printer operates using the currently selected values contained in operating memory. When the printer is powered on, it loads the values stored in Non-Volatile RandomAccess Memory (NVRAM) into operating memory. When you select new values through software, they are placed in operating memory and become part of the printer settings that are currently in use. If new values are selected through the front panel, they are loaded into NVRAM and RAM. Operating memory can be divided into the following types of memory: ROM, RAM, and NVRAM.

4.4.1 ReadOnly Memory

ReadOnly Memory (ROM) contains factory-set, default values. They are called default values because they are stored in ROM and cannot be changed. You can use the Set Factory Defaults menu to reset the operating memory to the factory defaults.

4.4.2 RandomAccess Memory

RandomAccess Memory (RAM) is a temporary memory area that stores selected values until the printer is powered off. It is useful to store features in RAM when you need to change settings for specific print jobs.

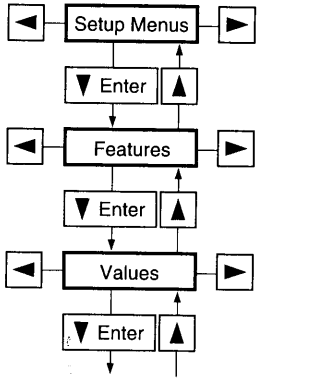
4.4.3 Non-Volatile RandomAccess Memory

The printer can communicate with many systems using the factory default settings in ROM, but you may have to change values to accommodate your particular application or host computer. NVRAM allows you to change features and values and save them in such a way that they are available each time you power on the printer. Selections are saved in NVRAM until you change them.

4.5 Operational Flow in Menu Mode

Figure 4–2 illustrates the operational flow that selects and changes values in Menu Mode.

Figure 4–2 Operational Flow Chart



4.5.1 Changing and Saving Values Example Procedure

This section contains an example of how to change and save values in Menu Mode. Use the steps in Table 4–2 to perform the following tasks:

- Enter Menu Mode
- Change the baud rate for the serial communications port from 9600 bits per second to 19.2K bits per second
- Exit Menu Mode

Before You Start the Example

This example assumes that the printer is using the factory default values in ROM. You will use Test Print to verify the changes you make. Print a copy of Test Print (Section 2.9) before beginning this example. Be sure that all printing has stopped and the display reads **PS READY/IDLE** before you make any changes.

Table 4–2 Changing and Saving Values Example

Step	Procedure	Result	Display Reads
1	Press [On Line]	The printer goes off line. The On Line indicator shuts off.	**PS OFFLINE**
2	Press [Menu]	The printer is now in Menu Mode.	**INTERFACE**
3	Press [Enter]	The Interface Menu is selected.	**I/F: SERIAL**
4	Press [Enter]		**SER: ENABLED**
5	Press [>] three times.	The Baud Rate Menu is selected.	**SER: BAUD RATE**
6	Press [Enter]		**RATE: 9600 BAUD**
7	Press [>]		**RATE: 19.2K baud**
8	Press [Enter]		**IS SELECTED . . .** (momentarily) then **RATE: 19.2K BAUD**
9	Press [On Line]	The printer goes on line. The On Line indicator lights.	**PS READY/IDLE**

Verification of Changing the Baud Rate

Verify that the baud rate has been changed by printing a copy of Test Print (Section 2.9), and comparing the new baud rate with the old baud rate.

4.6 Menu Descriptions

This section describes the menus, features, and values of the printer.

The main menu choices for the DEClaser 1152 printer are as follows:

INTERFACE
PS PCL SETUP
PAPER HANDLING
MISCELLANEOUS

Table 4–3 shows the features and values for the Interface Menu.

4.6.1 Interface Selection

This feature selects the interface(s) used to communicate with the host computer(s).

Multiple simultaneous active interfaces is a feature of PostScript level 2. For example, the Centronics interface and a serial interface can be active at the same time.

If a serial line is connected and active when the interpreter switches to PCL4, the following occurs:

- The **protocol** switches from "normal" to "raw".
- The **flow control** changes to "receive xon/xoff" if the previous mode was xon/xoff.

If a serial line is connected and active when the interpreter switches to PostScript, the following occurs:

- The **protocol** switches from "raw" to "normal".
- The **flow control** changes to "xon/xoff" if the previous mode was receive xon/xoff.

4.6.2 INTERFACE Menu

The DEClaser 1152 printer supports parallel, serial, and LocalTalk interface connections. The interfaces of the printer must match the interfaces used by the host computers.

Default values are shown in UPPERCASE in the Values column.

Although the SERIAL menu item and the SERIALB menu item share the same parameters and values, they are separate interfaces. Changing the settings in one does not change the same settings in the other. Use Table 4–3 as a reference for the features and values used by the SERIAL and the SERIALB menu items.

Note

SERIAL is the default.

Table 4–3 INTERFACE Menu

Menu Item	Features	Values
I/F: SERIAL I/F: SERIALB[2]	SER: ENABLED	ENA: YES ENA: no
	SER: INTERPRETER	INT: POSTSCRIPT INT: pcl4
	SER: PROTOCOL	PRO: NORMAL PRO: raw PRO: binary
	SER: BAUD RATE[1]	RATE: 300 baud RATE: 600 baud RATE: 1200 baud RATE: 2400 baud RATE: 4800 baud RATE: 9600 BAUD RATE: 19.2K baud RATE: 38.4K baud
	SER: PARITY[1]	PARITY: NO PARITY: odd PARITY: even PARITY: space PARITY: mark
	SER: FLOW CONTROL[1]	FLOW: XON/XOFF FLOW: dtr FLOW: etx/ack
	SER: DATA BITS[1]	DATA BITS: EIGHT DATA BITS: seven
	SER: STOP BITS[1]	STOP BITS: ONE STOP BITS: two
	SER: CHECKPARITY[1]	CHKP: yes CHKP: NO
I/F: PARALLEL	PAR: ENABLED	ENA: YES ENA: no
	PAR: INTERPRETER	INT: POSTSCRIPT INT: pcl4

[1]Available only when I/F: SERIAL or I/F: SERIALB is selected.

[2]SERIALB is not enabled by default.

(continued on next page)

Table 4–3 (Cont.) INTERFACE Menu

Menu Item	Features	Values
	PAR: PROTOCOL	PRO: NORMAL PRO: raw PRO: binary
	PAR: OUTPUTDEVICE	OUT: serial OUT: serialb OUT: NONE
I/F: LOCALTALK	LOC: ENABLED	ENA: YES ENA: no
	LOC: INTERPRETER	INT: POSTSCRIPT INT: pcl4

4.6.2.1 I/F: SERIAL (I/F: SERIALB) Menu

Table 4–4 contains the values to use to set the serial communication features of the printer.

Default values are shown in UPPERCASE in the Values column.

Table 4–4 I/F: SERIAL (I/F: SERIALB) Menu

Feature	Values	Description
SER: ENABLED		Determines whether data arriving on the serial interface port should be considered as a job to be scheduled for execution.
	ENA: YES	Data to the serial port is accepted as a job.
	ENA: no	Data to the serial port is not scheduled for interpretation, but an interpreter may be able to read the port as PostScript data.
SER: INTERPRETER		Determines the type of executable job the arriving data represents.
	INT: POSTSCRIPT	The serial port is set to recognize a PostScript file.
	INT: pcl4	The serial port is set to recognize a PCL file.
SER: PROTOCOL		The communications rules that are available on the printer.
	PRO: NORMAL	Certain control characters have special meanings and indicate something about the job being received. "Normal" is used only with the PostScript interpreter.
	PRO: raw	Everything received by the device driver is data to be passed on, unchanged, to the printer emulator. "Raw" is used only by the PCL4 emulator, not by the PostScript interpreter.

(continued on next page)

Table 4–4 (Cont.) I/F: SERIAL (I/F: SERIALB) Menu

Feature	Values	Description
	PRO: binary	The full range of 8-bit data can be sent. Emulators and the PostScript interpreter can use this mode. *Note: It is recommended to not use "binary" unless an Adobe Print Driver is being used.* *Refer to the Adobe Binary Communicatio Protocol, Technical Note #5081, (May 4, 1991).*
SER: BAUD RATE	RATE: 300 baud RATE: 600 baud RATE: 1200 baud RATE: 2400 baud RATE: 4800 baud RATE: 9600 BAUD RATE: 19.2K baud RATE: 38.4K baud	Sets the transmit and receive speed the printer uses to communicate with the host computer.
SER: PARITY		A part of the data format the printer uses to communicate with the host computer. The printer looks for the type of parity checking bit in each character. A system can use an odd, even, space, mark, or no parity checking, or may elect to use no checking. The selected settings will only be enforced if CHECKPARITY is set to YES.
	PARITY: NO	No parity bit is sent. This setting is valid only with 8 data bits.
	PARITY: odd	Each character received is checked for odd parity; each character transmitted will have an odd number of bits (odd parity). This setting is valid only with the following combinations: 7 data bits, 1 or 2 stop bits and 8 data bits, 1 stop bit.

(continued on next page)

Table 4–4 (Cont.) I/F: SERIAL (I/F: SERIALB) Menu

Feature	Values	Description
	PARITY: even	Each character received is checked for even parity; each character transmitted will have an even number of bits (even parity). This setting is valid only with the following combinations: 7 data bits, 1 or 2 stop bits and 8 data bits, 1 stop bit.
	PARITY: space	Always sends a 0 in the parity bit.
	PARITY: mark	Always sends a 1 in the parity bit.
SER: FLOW CONTROL	FLOW: XON/XOFF	Uses software to control the flow of data to the input buffer of the printer. It is sometimes referred to as software handshaking protocol, a method the printer and the host computer use to exchange xon/xoff signals. These signals prevent the input buffer from overflowing with data. If the input buffer becomes full and handshaking is not enabled, the overflowing data will be lost. Xon/xoff must be enabled in systems that use this software handshaking protocol to prevent the loss of data.
	FLOW: dtr	Uses hardware to regulate the flow of data to the input buffer of the printer. The printer transmits a signal to the DTR line of the serial port when it is ready to receive data. This is sometimes referred to as the hardware handshaking protocol.

(continued on next page)

Table 4–4 (Cont.) I/F: SERIAL (I/F: SERIALB) Menu

Feature	Values	Description
	FLOW: etx/ack	This feature is another type of handshaking protocol that is used on some systems to prevent data overflow. It uses software to regulate the flow of data to the input buffer by exchanging signals with the host computer. *Note: The end of text/acknowledge feature is not supported on Digital systems. Use xon/xoff if you have a Digital system.*
SER: DATA BITS		The number of data bits the printer expects to see in each character it receives.
	DATA BITS: EIGHT	The printer is set to receive and transmit characters composed of eight bits. This setting is valid with 1 or 2 stop bits and no parity.
	DATA BITS: seven	The printer is set to receive and transmit characters composed of seven bits. This setting is valid with 1 or 2 stop bits and even or odd parity.
SER: STOP BITS		Specifies the number of stop bits. Some systems use one stop bit while other systems require two.
	STOP BITS: ONE	One stop bit is used in the data format. This setting is valid with the following combinations: 7 data bits and even or odd parity, 8 data bits and any parity.
	STOP BITS: two	Two stop bits are used in the data format. This setting is valid with the following combinations: 7 data bits and even or odd parity, 8 data bits and no parity.
SER: CHECKPARITY	CHKP: yes CHKP: NO	This indicates whether the parity checking setting of SER: PARITY is enforced.

Table 4–5 defines restrictions on the interaction between communications options.

Table 4–5 Restrictions on the Interaction Between Communications Options

Option	Choices	Effected by Other Choices
Parity	NO, EVEN, ODD, SPACE, MARK	If 8 data bits and 2 stop bits have been selected and then you attempt to select EVEN, ODD, SPACE, or MARK parity, then the printer "beeps" and NO parity remains selected.
		If 7 data bits and 1 or 2 stop bits have been selected and you attempt to select NO parity, then the printer "beeps" and the current EVEN, ODD, SPACE, or MARK parity is retained.
Data Bits	8,7	If EVEN, ODD, SPACE, or MARK parity and 2 stop bits have been selected and you attempt to select 8 data bits, then the printer "beeps" and 7 data bits remain selected.
		If NO parity and 1 or 2 stop bits have been selected and you attempt to select 7 bits, then the printer "beeps" and 8 data bits remain selected.
Stop Bits	1,2	If 8 data bits and EVEN, ODD, SPACE, or MARK parity have been selected and you attempt to select 2 stop bits, then the printer "beeps" and 1 stop bit remains selected.

4.6.2.2 I/F: PARALLEL Menu

Table 4–6 contains the values to use to set the parallel (Centronics) communication features of the printer.

Default values are shown in UPPERCASE in the Values column.

Table 4–6 I/F: PARALLEL Menu

Feature	Values	Description
PAR: ENABLED		Determines whether data arriving on the parallel (Centronics) interface port should be considered as a job to be scheduled for execution by the PostScript interpreter or an emulator.
	ENA: YES	Data to the parallel port is accepted as a job.
	ENA: no	Data to the parallel port is ignored.

(continued on next page)

Table 4–6 (Cont.) I/F: PARALLEL Menu

Feature	Values	Description
PAR: INTERPRETER		Determines the type of executable job the arriving data represents.
	INT: POSTSCRIPT	The parallel port is set to recognize a PostScript file.
	INT: pcl4	The parallel port is set to recognize a PCL file.
PAR: PROTOCOL		The communications rules that are available on the printer.
	PRO: NORMAL	Certain control characters have special meanings and indicate something about the job being received. "Normal" is used only with the PostScript interpreter.
	PRO: raw	All characters received by the parallel port are to be passed on, unchanged, to the interpreter. "Raw" is used only by the PCL4 emulator, not by the PostScript interpreter.
	PRO: binary	The full range of 8-bit data can be sent. Emulators and the PostScript interpreter can use this mode.
PAR: OUTPUTDEVICE	OUT: serial OUT: serialb OUT: NONE	The parallel (Centronics) interface cannot send data back to the host computer. OUTPUTDEVICE allows PostScript to send back channel messages on an alternate return channel. *Note: If the selected output device is not enabled, back channel data will be lost.*

4.6.2.3 I/F: LOCALTALK Menu

Table 4–7 contains the values to use to set the LocalTalk communication features of the printer.

Default values are shown in UPPERCASE in the Values column.

Table 4–7 I/F: LOCALTALK Menu

Feature	Values	Description
LOC: ENABLED		Determines whether data arriving on the LocalTalk port should be considered as a job to be scheduled for execution.
	ENA: YES	Data to the LocalTalk port is accepted as a job.
	ENA: no	Data to the LocalTalk port is ignored.
LOC: INTERPRETER		Determines the type of executable job the arriving data represents.
	INT: POSTSCRIPT	The LocalTalk port is set to recognize a PostScript file.
	INT: pcl4	The LocalTalk port is set to recognize a pcl file.

4.6.3 PCL4 SETUP Menu

Operator panel messages will be the same for both the PostScript and the PCL4 protocols. You should print a test page to determine which protocol is active for a particular port.

Table 4–8 contains the values to use to set the PCL4 features of the printer.

Default values are shown in UPPERCASE in the Values column.

Table 4–8 PCL4 SETUP Menu

Feature	Values	Description
PCL: COPIES	COPIES: 1[1] to COPIES: 99	Specifies the number of copies to print from 1 to 99.
PCL: ORIENTATION	ORIENT: PORTRAIT	Sets the printing so that the characters are parallel to the short edge of the paper. This page is printed in portrait orientation.
	ORIENT: landscape	Sets the printing so that the characters are parallel with the long edge of the paper.

[1]Default setting.

(continued on next page)

Table 4–8 (Cont.) PCL4 SETUP Menu

Feature	Values	Description
PCL: LPI	LPI: 1.0 to LPI: 12.0 LPI: 6.0[1]	Specifies the lines per inch on a printed page. This setting increments in steps of 0.1 inch.
PCL: SYMBOL SET	SYM: ROMAN 8 SYM: pc-8 SYM: nor iso-60 SYM: nor iso-61 SYM: roman ext SYM: uk iso-4 SYM: fren iso-25 SYM: fren iso-69 SYM: german SYM: germ iso-21 SYM: greek SYM: ital iso-15 SYM: jis iso-14 SYM: chine iso-57 SYM: technical-7 SYM: math-8 SYM: ecma-94 l1 SYM: ocr-a SYM: ocr-b SYM: swed iso-10 SYM: swed iso-11 SYM: spanish SYM: span iso-17 SYM: span iso-85 SYM: port iso-16 SYM: port iso-84 SYM: ascii iso-6 SYM: legal SYM: irv iso-2 SYM: pc-8 dn SYM: pi font	A symbol set is collection of glyphs.
PCL: FONT PAGE	EXECUTE?	Prints the font test page.

[1]Default setting.

(continued on next page)

Table 4–8 (Cont.) PCL4 SETUP Menu

Feature	Values	Description
PCL: FONT[2]	FONT: COURIER FONT: courier-O FONT: courier-B FONT: courier-BO FONT: helvetica FONT: helvetica-O FONT: helvetica-B FONT: helvetica-BO FONT: times-roman FONT: times-I FONT: times-B FONT: times-BI FONT: helvnrrw FONT: helvnrrw-O FONT: helvnrrw-B FONT: helvnrrw-BO FONT: other[3]	Specifies the font style for the printed page.
PCL: FONT SIZE	SIZE: 8 to SIZE: 90 SIZE: 12[1]	Specifies the font size for the printed page.
PCL: FONT PITCH	PITCH: 4 cpi to PITCH: 20 cpi PITCH: 10 cpi[1]	Specifies the font pitch for the printed page.

[1]Default setting.

[2]These are the 17 built-in fonts for the DEClaser 1152 printer.

[3]This menu option is used for font cartridges that can be installed in the printer. These cartridge fonts can be selected using the values in Table 4–9.

4.6.3.1 Selecting Fonts

You can use the features and values in Table 4–9 to access the fonts in any font cartridge you install in the DEClaser 1152 printer.

Default values are shown in UPPERCASE in the "Values" column.

Table 4–9 Selecting Fonts

Feature	Value	Description
FONT: FACE NUMBER[1]	FACE #: 0-255	This is an integer assigned to a particular typeface by Hewlett-Packard Company. For example, typeface 3 is Courier. The default typeface is Courier. See *Hewlett-Packard PCLx Technical Reference Manual* (where x is the version number of PCL you have) for a list of numbers and definitions.
FONT: SPACING	SPC: proportional	A font in which each letter or symbol occupies a different amount of horizontal space, depending on its design. The characters in this book are proportionally spaced.
	SPC: FIXED	A font in which each letter or symbol occupies the same horizontal space as every other letter or symbol.
FONT: STYLE	STYLE: UPRIGHT	Sets the type style of the characters to regular, upright print. This line is printed in the upright style.
	STYLE: italic	Sets the type style of the characters to italic print. *This line is printed in the italic style.*

[1]Not all typefaces are available from this printer. The menu choices shown in Table 4–9 allow access to any future font cartridge you might use.

(continued on next page)

Table 4–9 (Cont.) Selecting Fonts

Feature	Value	Description
FONT: WEIGHT[1]	WEIGHT: ultrathin WEIGHT: extrathin WEIGHT: thin WEIGHT: ex-light WEIGHT: light WEIGHT: demilight WEIGHT: semilight WEIGHT: MEDIUM WEIGHT: semibold WEIGHT: demibold WEIGHT: bold WEIGHT: extrabold WEIGHT: black WEIGHT: ex-black WEIGHT: ultrblack	Selects the blackness of the printed characters.

[1]Not all typefaces are available from this printer. The menu choices shown in Table 4–9 allow access to any future font cartridge you might use.

4.6.4 PAPER HANDLING Menu

Table 4–10 contains the values to use to set the paper handling features of the printer.

Default values are shown in UPPERCASE in the Values column.

Table 4–10 Paper Handling Menu

Menu Item	Values	Description
DEFAULT FEEDER	FEED: CASSETTE[1]	Selects the paper cassette to automatically feed paper into the printer.
	FEED: front	Selects the multipurpose tray.
FRONT PAGE SIZE		The following values specify media sizes for multipurpose tray feed operation:
	FRNT: LETTER	Specifies letter size (8.5 in. x 11.0 in.)
	FRNT: a4	Specifies A4 size (210 mm x 297 mm)
	FRNT: legal	Specifies legal size (8.5 in. x 14.0 in.)
	FRNT: exec	Specifies executive size (7.25 in. x 10.5 in.)
	FRNT: a5[2]	Specifies A5 size (148 mm x 210 mm)
	FRNT: c5	Specifies C5 size (162 mm x 229 mm)
	FRNT: dl	Specifies DL size (C5/6) (110 mm x 220 mm)
	FRNT: 4.125x9.5	Specifies 4.125 in. x 9.5 in.
	FRNT: 3.875x7.5	Specifies 3.875 in. x 7.5 in.
	FRNT: b5	Specifies B5 size (182 mm x 257 mm)
	FRNT: halfletter	Specifies half-letter size (5.5 in. x 8.5 in.)
	FRNT: 2/3 A4	Specifies two-thirds-A4 size (198 mm x 210 mm)
	FRNT: 7x9	Specifies 7.0 in. x 9.0 in.

[1]Cassette is the default feeder if it is installed. If the cassette is not installed, the multipurpose tray is the default feeder.

[2]To prevent paper jams, use 90 g/m^2 (24 lb.) paper when A5 size paper is required.

(continued on next page)

Table 4–10 (Cont.) Paper Handling Menu

Menu Item	Values	Description
ENV. CASS. SIZE[3]		The following values specify envelope sizes used with the envelope cassette.
	ENV: 4.125X9.5[4]	Specifies 4.125 in. x 9.5 in.
	ENV: a5[2]	Specifies A5 size (148 mm x 210 mm)
	ENV: c5	Specifies C5 size (162 mm x 229 mm)
	ENV: dl	Specifies DL size (C5/6) (110 mm x 220 mm)
	ENV: 3.875x7.5	Specifies 3.875 in. x 7.5 in.
	ENV: halfletter	Specifies half-letter size (5.5 x 8.5 in.) paper.

[2]To prevent paper jams, use 90 g/m^2 (24 lb.) paper when A5 size paper is required.

[3]The envelope cassette is designed to feed envelopes. Using the cassette to feed flat media may result in skewed printing and multiple feeds or jams. Test the media in the envelope cassette to ensure proper operation.

[4]Default value.

4.6.5 MISCELLANEOUS Menu

Table 4–11 contains the values to use to set the following printer features:

Default values are shown in UPPERCASE in the Values column.

Table 4–11 MISCELLANEOUS Menu

Features	Values	Description
DO START PAGE	START PAGE: YES	Generates the PostScript startup page each time the PostScript interpreter is initialized. This page contains useful information, such as the version number of the PostScript interpreter and the name of the available fonts. The start page also confirms the readiness of the printer.
	START PAGE: no	Disables the PostScript startup page.
DO JAM RECOVERY	RECOVER JAM: YES	Enables the printer to perform complete jam recovery so that data from the jammed pages is not lost. There may be some adverse effect on throughput speed when this value is selected.
	RECOVER JAM: no	Disables the guarantee of complete jam recovery. However, the printer attempts to recover jams when possible. Choose this value if you want to ensure the best possible throughput speed from the printer.
WAIT TIMEOUT		The WAIT TIMEOUT feature (if not set to infinite) limits the time the printer waits to receive additional input for a job that is in progress. This timeout period protects the printer from being accessed indefinitely by a host that crashes or is disconnected when sending a file to the printer.
	TIMEOUT: 20 secs	Limits the time the printer waits for additional input to 20 seconds.

(continued on next page)

Table 4–11 (Cont.) MISCELLANEOUS Menu

Features	Values	Description
	TIMEOUT: 40 SECS	Limits the time the printer waits for additional input to 40 seconds.
	TIMEOUT: 60 secs	Limits the time the printer waits for additional input to 60 seconds.
	TIMEOUT: infinite	Places no limits to the time the printer waits for additional input.
LANGUAGE	LANG: ENGLISH LANG: Finnish LANG: French LANG: German LANG: Italian LANG: Norwegian LANG: Portuguese LANG: Spanish LANG: Swedish LANG: Danish LANG: Dutch	Displays front panel messages in the selected language.
JOB RESET	RESET: YES	Allows resetting of the current job from the front panel.
	RESET: no	Disables the resetting of the current job from the front panel.
SET FACTORY DEFS	A SETTING	Sets all features of the printer to their factory default settings using letter size paper.
	b setting	Sets all features of the printer to their factory default settings using A4 size paper.

4.7 Selecting the Input Tray

Pressing [FEEDER SELECT] produces the following choices:

FEED: CASSETTE
FEED: front

These settings are not persistent across power cycles, can be overridden by software, and the cassette selection is visible only when the optional cassette is installed.