

DECLaser 1152 Printer
Installation/Operator's Guide

DECLaser 1152
Installation/Bedienungsanleitung

DECLaser 1152 Printer
Installatie-/bedieningshandleiding

Imprimante DECLaser 1152
Guide d'installation et d'utilisation

Impresora DECLaser 1152
Manual de Instalación y del Operador

Stampante DECLaser 1152
Guida utente/Installazione

EK-DECLP-IG. A01

First Printing, November 1992

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S1864

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FCC NOTICE:

115 Volt model only

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. Any changes or modifications made to this equipment may void the user's authority to operate this equipment. 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/TV technician for help.

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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Hinweis über Schallemission: Der Laserdrucker DEClaser 1152 entspricht den gesetzlichen Schallschutzbestimmungen. Nachfolgend werden die entsprechenden Werte aufgeführt.

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

	Schalleistungspegel	Schalldruckpegel
	LwAd, B	LpAm, dBA (Zuschauerpositionen)
Leerlauf	4,8	34
Betrieb	5,9	45

Hinweis

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

Normenkonformitäts- und Zulassungsinformationen

Produktname: Laserdrucker
Produkttyp: DEClaser 1152
Typnummer: LN07C-A3, -AG

Akustik: ¹	Schalleistungspegel		Schalldruckpegel	
	LwAd in B		LpAm in dB(A)	
	Leerlauf	Betrieb	Leerlauf	Betrieb
	4,8	5,9	34	45

¹Geräuschkennwerte deklariert nach ISO9296, gemessen im Akustiklabor nach EN27779 (ISO7779).

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Preface

This book has two sections:

Installation	This section contains information on how to install the printer as well as the following DEClaser 1152 printer options: <ul style="list-style-type: none">• 2 MB memory• Paper feeder unit• PostScript font cartridge
Operator's	This section describes printer components, operating procedures, printer configuration instructions, print media specifications, troubleshooting instructions, and printer maintenance.

Related Documentation

The following manuals are available for use with the DEClaser 1152 printer.

- *DEClaser 1152 Printer User's Guide* (EK—DECLP—UG. A01). This guide describes how to use the DEClaser 1152 printer in the following environments:

MS-DOS	MS-Windows	Macintosh
ULTRIX	UNIX	VMS

DECwindows
It also contains a section on using DECimage.
- *Digital Laser Printers Guide to Paper and Other Media* (EK—LASER—GD). This manual is for general users and contains detailed information about buying and storing print media (paper, envelopes, labels, and transparencies) that can be used with Digital laser printers.

Conventions Used in This Guide

The following terms and conventions are used in this guide.

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.
Bullet (●)	In a procedure, a statement preceded by a bullet describes the result of a procedural step. For example: <ol style="list-style-type: none">1. Insert the paper cassette into the printer.<ul style="list-style-type: none">• The Error indicator shuts off.
Arrow (→)	A statement preceded by an arrow indicates a special instruction related to a procedural step. For example: <ol style="list-style-type: none">1. Insert the paper into the cassette, making sure the stack is below the paper snubbers. → To prevent paper jams, do not load paper above the MAX limit line.
Key	A key name is shown enclosed in a box to indicate that you press that key on the control panel. Key names are always shown in initial capital letters. For example: <ol style="list-style-type: none">1. Press Test to enter the Test Menu.
UPPERCASE	All information on the message display is shown in uppercase. For example: <ul style="list-style-type: none">• Printer status reads PS READY/IDLE.
Bold	Items from the scrolling menus appear as they do on the display (uppercase, lowercase, or initial capital letters) with the menu item shown in bold type. For example: <ul style="list-style-type: none">• Printer status reads TIMEOUT: 20 secs.

Vorwort

Dieses Handbuch enthält zwei Abschnitte:

Installation	In diesem Abschnitt wird die Installation des DEClaser 1152, sowie das folgende Druckerzubehör beschrieben: <ul style="list-style-type: none">• 2-MB-Speichererweiterung• Automatische Papierzufuhr• PostScript-Fontkassette
Bedienungsanleitung (Operator's)	In diesem Abschnitt werden die verschiedenen Komponenten des Druckers und die Betriebsprozeduren beschrieben. Außerdem finden Sie dort Anweisungen zur Konfiguration des Druckers, zur Fehlerbeseitigung und zur Wartung, sowie die technischen Daten der Ausgabemedien

Weiterführende Dokumentation

Folgende Handbücher sind für den Laserdrucker DEClaser 1152 verfügbar:

- *DEClaser 1152 Printer User's Guide* (EK—DECLP—UG. A01). In diesem Handbuch wird die Arbeit mit dem DEClaser 1152 in folgenden Betriebsumgebungen beschrieben:

MS-DOS MS-Windows Macintosh

ULTRIX UNIX VMS

DECwindows

Das Handbuch enthält auch einen Abschnitt über DECimage.

- *Digital Laser Printers Guide to Paper and Other Media* (EK—LASER—GD). Dieses Handbuch ist für den allgemeinen Gebrauch bestimmt und enthält detaillierte Informationen über Kauf und Lagerung von Druckmedien (Papier, Umschläge, Etiketten und Transparentfolien), die mit den Laserdruckern von Digital Equipment verwendet werden können.

Schreibkonventionen

In diesem Handbuch werden folgende Begriffe und Konventionen verwendet:

Begriff/Konvention	Bedeutung
Hinweis	Wichtige zusätzliche Informationen.
Vorsicht	Informationen, die beachtet werden müssen, um Geräteschäden zu vermeiden.
Achtung	Informationen, die beachtet werden müssen, um die Benutzer vor Schaden zu bewahren.
Schwarzer Punkt (●)	Eine durch einen schwarzen Punkt markierte Prozedurbeschreibung enthält das Ergebnis des vorhergehenden Schritts, nachfolgend ein Beispiel: <ol style="list-style-type: none">Hängen Sie die Papierkassette in den Drucker ein.<ul style="list-style-type: none">Die Kontrolleuchte "Alarm" geht aus.
Pfeil (→)	Eine durch einen Pfeil markierte Aussage bezieht sich auf eine spezifische Anweisung, die mit der Prozedur in Zusammenhang steht, nachfolgend ein Beispiel: <ol style="list-style-type: none">Legen Sie das Papier in die Kassette, wobei die Haltebügel über den Papierstapel fassen müssen.<ul style="list-style-type: none">→ Um Papierstau zu verhindern, sollten Sie beim Einlegen des Papiers die obere Begrenzungslinie beachten.
Taste	Tastennamen werden umrandet dargestellt und weisen darauf hin, daß die entsprechende Taste auf dem Bedienungsfeld gedrückt werden muß. Nachfolgend ein Beispiel: <ol style="list-style-type: none">Drücken Sie auf Test, um das Testmenü aufzurufen.
GROSSBUCHSTABEN	Informationen, die auf der Meldungsanzeige erscheinen, werden in Großbuchstaben dargestellt, nachfolgend ein Beispiel: <ul style="list-style-type: none">Druckerstatus: PS BEREIT.
Fettschrift	Rollmenüeinträge erscheinen im Text wie auf der Anzeige (Groß- und Kleinschreibung), wobei der Menüeintrag fettgedruckt dargestellt wird, nachfolgend ein Beispiel: <ul style="list-style-type: none">Druckerstatus: TIMEOUT: 20 Sek..

Voorwoord

Deze handleiding bestaat uit twee gedeelten:

- | | |
|------------------------|---|
| Installatie | Dit gedeelte bevat informatie over het installeren van de printer en over de volgende optionele uitbreidingen bij de DEClaser 1152: <ul style="list-style-type: none">• 2 Mb geheugen• Papiertoevoerinstallatie• PostScript font-cassette |
| Bediening (Operator's) | Dit gedeelte bevat informatie over de volgende onderwerpen: printercomponenten, bedieningsprocedures, instructies met betrekking tot printerconfiguraties, specificaties met betrekking tot afdrukmedia, instructies voor het opsporen van fouten en onderhoud van de printer |

Aanverwante documentatie

De volgende handleidingen zijn beschikbaar voor gebruik in combinatie met de DEClaser 1152 printer:

- *DEClaser 1152 Printer User's Guide* (EK—DECLP—UG. A01). In deze handleiding wordt beschreven hoe u de DEClaser 1152 printer gebruikt in de volgende omgevingen:

MS-DOS	MS-Windows	Macintosh
ULTRIX	UNIX	VMS
DECwindows		

Deze handleiding bevat tevens een gedeelte over het gebruik van DECimage.

- *Digital Laser Printers Guide to Paper and Other Media* (EK—LASER—GD). Deze handleiding is bestemd voor algemeen gebruik en bevat gedetailleerde informatie over het kopen en opslaan van afdrukmedia (papier, enveloppen, labels en transparanten) die kunnen worden gebruikt in combinatie met Digital laser printers.

Conventies

In deze handleiding worden de volgende termen en conventies gehanteerd:

Conventie	Betekenis
Opmerking	Geeft belangrijke aanvullende informatie.
Voorzichtig	Geeft informatie ter voorkoming van schade aan apparatuur.
Waarschuwing	Geeft informatie ter voorkoming van persoonlijk letsel.
Bullet (•)	In a procedure beschrijft een instructie die wordt voorafgegaan door een bullet het resultaat van een procedurele stap. Voorbeeld: <ol style="list-style-type: none">1. Plaats de papercassette in de printer.<ul style="list-style-type: none">• De foutenindicator wordt uitgeschakeld.
Arrow (→)	Een instructie voorafgegaan door een pijl is een speciale instructie die is gerelateerd aan een procedurele stap. Voorbeeld: <ol style="list-style-type: none">1. Plaats het papier in de cassette, waarbij u ervoor zorgt dat de stapel onder de papierhouders zit.<ul style="list-style-type: none">→ Om te voorkomen dat het papier vast komt te zitten, zorgt u ervoor dat u niet meer papier in de cassette plaatst dan wordt aangegeven door de lijn voor de maximale limiet.
Toets	Een toetsnaam wordt weergegeven in een kader, ter aanduiding dat u op de betreffende toets op het besturingspaneel moet drukken. Toetsnamen hebben altijd een beginkapitaal. Voorbeeld: <ol style="list-style-type: none">1. Druk op Test om het testmenu op te roepen.
HOOFDLETTERS	Alle informatie in het berichtvenster wordt getoond in hoofdletters. Voorbeeld: <ul style="list-style-type: none">• Status van de printer: PS GEREED/N-ACT.
Vet	Items uit de scroll-menu's worden weergegeven zoals ze op het venster worden getoond (hoofdletters, kleine letters, of beginkapitalen), waarbij het menu-item vet wordt weergegeven. Voorbeeld: <ul style="list-style-type: none">• Status van de printer: TIMEOUT: 20 sec.

Préface

Le présent guide est divisé en deux sections :

Installation	Cette section vous explique comment installer l'imprimante DEClaser 1152 et les options suivantes : <ul style="list-style-type: none">• Carte mémoire de 2 Mo ;• Unité d'alimentation papier ;• Cartouche de polices PostScript ;
Operator (Utilisation)	Cette section décrit les différents composants de l'imprimante, les procédures de fonctionnement, les instructions de configuration, les supports d'impression acceptés, les informations relatives au dépannage et à la maintenance de l'imprimante.

Bibliographie

Liste des manuels disponibles avec l'imprimante DEClaser 1152.

- *DEClaser 1152 Printer User's Guide* (EK—DECLP—UG. A01). Ce guide décrit l'utilisation de l'imprimante DEClaser 1152 dans les environnements suivants :

MS-DOS	MS-Windows	Macintosh
ULTRIX	UNIX	VMS
DECwindows		

Il comporte également une section relative à l'utilisation de DECimage.

- *Digital Laser Printers Guide to Paper and Other Media* (EK—LASER—GD). Ce manuel est destiné à tout utilisateur et explique en détails comment se procurer et stocker les supports d'impression acceptés par les imprimantes laser Digital (papier, enveloppes, étiquettes, et transparents).

Conventions utilisées

Les conventions suivantes ont été utilisées pour la rédaction du manuel :

Convention	Explication
Remarque	Annonce une information d'intérêt général.
Attention	Les informations qui suivent doivent être lues avec attention afin d'éviter tout risque d'incident matériel ou logiciel.
Danger	Les informations qui suivent doivent être lues avec attention ; il en va de votre sécurité.
Puce (•)	Une phrase précédée d'une puce présente le résultat d'une opération. Par exemple : <ol style="list-style-type: none">1. Introduisez la cassette dans l'imprimante.<ul style="list-style-type: none">• Le voyant lumineux Erreur s'éteint.
Flèche (→)	Une phrase marquée d'une flèche indique une instruction spéciale. Par exemple : <ol style="list-style-type: none">1. Introduisez le papier dans la cassette en vérifiant que la pile figure en dessous des pattes de retenue du papier.<ul style="list-style-type: none">→ Pour éviter les bourrages de papier, n'insérez pas de papier au delà du repère de remplissage maximum.
Touche	Un nom encadré désigne une touche du panneau de contrôle sur laquelle vous devez appuyer. Les noms de touches COMMENCENT toujours par une majuscule. Par exemple : <ol style="list-style-type: none">1. Appuyez sur Test pour afficher le menu Test.
MAJUSCULES	Toutes les informations qui s'affichent sur le panneau de contrôle sont représentées en lettres majuscules. Par exemple : <ul style="list-style-type: none">• L'affichage indique l'état de l'imprimante PRET/INACTIF PS.
Gras	Les options des menus déroulants sont représentées en gras telles qu'elles apparaissent sur l'affichage du panneau de contrôle (majuscules, minuscules, ou majuscules initiales). Par exemple : <ul style="list-style-type: none">• L'état de l'imprimante est DÉLAI : 20 s.

Prefacio

Este manual consta de dos secciones:

- | | |
|-----------------------|--|
| Instalación | En esta sección hay información relativa a la instalación de la impresora, así como a las siguientes opciones de la impresora DEClaser 1152: <ul style="list-style-type: none">• Memoria de 2 MB• Unidad de alimentación de papel• Cartucho de tipografía PostScript |
| Operador (Operator's) | En esta sección se describen los componentes de la impresora, procedimientos operativos, instrucciones de configuración de la impresora, especificaciones de los medios de impresión, instrucciones sobre detección de errores y mantenimiento de la impresora. |

Documentación asociada

Los siguientes manuales se encuentran disponibles para su uso con la impresora DEClaser 1152.

- *DEClaser 1152 Printer User's Guide* (EK—DECLP—UG. A01). En este manual se describe cómo usar la impresora DEClaser 1152 en los entornos siguientes:

MS-DOS	MS-Windows	Macintosh
ULTRIX	UNIX	VMS

DECwindows
También contiene una sección sobre el uso de DECimage.
- *Digital Laser Printers Guide to Paper and Other Media* (EK—LASER—GD). Este manual está destinado a los usuarios generales y contiene información detallada sobre la adquisición y almacenamiento de los medios de impresión (papel, sobres, etiquetas y transparencias) que pueden usarse con las impresoras láser de Digital.

Convenciones usadas en este manual

En este manual se usan los términos y convenciones siguientes:

Convención	Significado
Nota	Ofrece información adicional de importancia.
Aviso	Ofrece información necesaria para evitar daños a equipos.
Precaución	ofrece información necesaria para evitar daños físicos a personas.
Punto (●)	En un procedimiento, un enunciado precedido de un punto describe el resultado de un paso del procedimiento. Por ejemplo: <ol style="list-style-type: none">1. Insertar la bandeja de papel en la impresora.<ul style="list-style-type: none">• El indicador de error se apaga.
Flecha (→)	Un enunciado precedido de una flecha indica una instrucción especial relativa a un paso del procedimiento. Por ejemplo: <ol style="list-style-type: none">1. Insertar el papel en la bandeja, asegurándose de que el bloque está por debajo de los amortiguadores del papel. <ul style="list-style-type: none">→ Para evitar atascos de papel, no se debe cargar el papel por encima de la línea de límite con la marca MAX.
Tecla	Los nombres de teclas van dentro de una caja para indicar que se debe pulsar en el panel de control. Los nombres de las teclas aparecen siempre con la primera letra en mayúsculas. Por ejemplo: <ol style="list-style-type: none">1. Se pulsa Test para entrar en el menú de pruebas.
MAJÚSCULAS	Toda la información del visor de mensajes aparece en mayúsculas. Por ejemplo: <ul style="list-style-type: none">• El estado de la impresora dice PS PREP/INACTIVA.
Negrita	Las opciones de los menús que se desplazan aparecen tal y como lo hacen en el visor (mayúsculas, minúsculas o inicial en mayúscula) con la opción del menú en letra negrita. Por ejemplo: <ul style="list-style-type: none">• El estado de la impresora dice INTERVALO:20 segs.

Prefazione

Questo manualetto è composto da due sezioni:

Installazione	Contiene le informazioni relative all'installazione della stampante e delle seguenti opzioni per il modello DEClaser 1152: <ul style="list-style-type: none">• Scheda di memoria di 2 MB• Unità di alimentazione carta• Cartuccia per font PostScript
Guida utente (Operator's)	Questa sezione descrive i componenti della stampante, le procedure operative, le istruzioni di configurazione della stampante, le specifiche relative ai supporti di stampa, le istruzioni per la ricerca guasti e le istruzioni di manutenzione della stampante.

Documentazione relativa

Per la stampante DEClaser 1152 sono disponibili i seguenti manuali.

- *DEClaser 1152 Printer User's Guide* (EK—DECLP—UG. A01). Questa guida descrive come utilizzare la stampante DEClaser 1152 nei seguenti ambienti:

MS-DOS	MS-Windows	Macintosh
ULTRIX	UNIX	VMS
DECwindows		

Essa contiene anche una sezione su come utilizzare DECimage.

- *Digital Laser Printers Guide to Paper and Other Media* (EK—LASER—GD). Questo manuale si indirizza a tutti gli utilizzatori e contiene informazioni dettagliate relative all'acquisto e alla conservazione dei supporti di stampa (carta, buste, etichette e lucidi) che possono essere utilizzati con le stampanti laser della Digital.

Convenzioni utilizzate in questa guida

In questa guida vengono utilizzati i seguenti termini e convenzioni.

Convenzione	Significato
Nota	Fornisce ulteriori informazioni di rilevante interesse.
Avvertenza	Fornisce informazioni necessarie per evitare danni alle apparecchiature.
Attenzione	Fornisce informazioni per evitare rischi alle persone.
Cerchietto nero (●)	In una procedura, una definizione preceduta da un cerchietto nero descrive il risultato del passo della procedura. Per esempio: <ol style="list-style-type: none">1. Inserire il cassetto carta nella stampante.<ul style="list-style-type: none">• L'indicatore di errore si spegne.
Freccetta (→)	Una definizione preceduta da una freccetta indica un'istruzione particolare relazionata ad un passo procedurale. Per esempio: <ol style="list-style-type: none">1. Inserire la carta nel cassetto e accertarsi che gli appositi fermi siano posizionati sopra la pila dei fogli. <ul style="list-style-type: none">→ Per evitare inceppamenti carta, la pila dei fogli non deve superare la linea (MAX) che delimita la massima altezza della pila.
Tasto	Il nome di un tasto viene racchiuso in una casella per indicare che si deve premere quel tasto sul pannello di controllo. I nomi dei tasti sono sempre rappresentati con lettere maiuscole. Per esempio: <ol style="list-style-type: none">1. Premere Test per impostare il menu Test.
MAIUSCOLE	Tutte le informazioni sul display dei messaggi vengono rappresentate con lettere maiuscole. Per esempio: <ul style="list-style-type: none">• Lo stato della stampante registra PS PRONTA/INATT.
Grassetto	Gli elementi visualizzati nel menu a scorrimento appaiono come sul display (minuscole, maiuscole, o lettere maiuscole iniziali) con le opzioni del menu rappresentate in grassetto. Per esempio: <ul style="list-style-type: none">• Lo stato della stampante registra ATTESA:20 sec.

Installation Section

Installation

Installatiegedeelte

Installation

Sección de instalación

Installazione

Inventory

- | | |
|---|----------------------------------|
| ❶ DEClaser 1152 printer | ❷ Serial interface cable (BC16E) |
| ❸ Front output tray | ❹ Power cord |
| ❺ EP-L (toner) cartridge
(shipped in a separate box) | Documentation (not shown) |
-

For 240-volt printers, the serial interface cable and the power cord are packaged in a separate box.

Bestandsliste

- | | |
|---|-----------------------------------|
| ❶ DEClaser 1152 | ❷ Seriëles Verbindungskabel BC16E |
| ❸ Vordere Ablage | ❹ Netzkabel |
| ❺ EP-L-Tonerkassette (in
separatem Karton geliefert) | Dokumentation (nicht abgebildet) |
-

Das serielle Verbindungskabel und das Netzkabel der mit 240 Volt betriebenen Drucker sind separat verpackt.

Onderdelen

- | | |
|---|-----------------------------------|
| ❶ DEClaser 1152 printer | ❷ Seriële interface kabel (BC16E) |
| ❸ Uitvoerlade voorzijde | ❹ Netsnoer |
| ❺ EP-L (toner) cassette
(verpakt in afzonderlijke
doos) | Documentatie (niet afgebeeld) |
-

In het geval van 240-volt printers zijn de seriële interface kabel en het netsnoer verpakt in een afzonderlijke doos.

Inventaire

- | | |
|--|-----------------------------------|
| ❶ Imprimante DEClaser 1152 | ❷ Câble d'interface série (BC16E) |
| ❸ Bac de sortie avant | ❹ Cordon d'alimentation |
| ❺ Cartouche EP-L (toner)
(emballage séparé) | Documentation (non représentée) |
-

Le cordon d'alimentation et le câble d'interface des imprimantes 240 volts figurent dans un emballage séparé.

Inventario

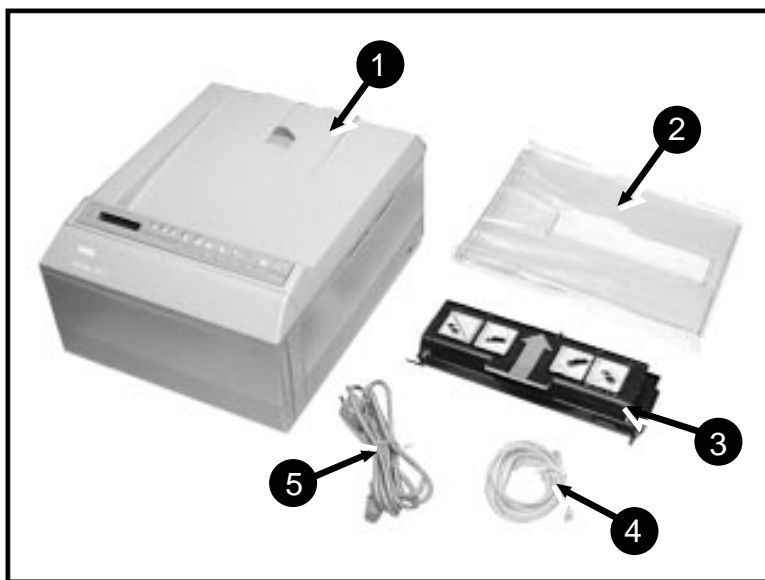
- | | |
|--|--------------------------------------|
| ❶ Impresora DEClaser 1152 | ❷ Cable de interfaz en serie (BC16E) |
| ❸ Bandeja de salida frontal | ❸ Cable de alimentación |
| ❹ Cartucho EP-L (<i>toner</i>)
(enviado en una caja por separado) | Documentación (no se muestra) |
-

Para impresoras de 240 voltios, el cable de interfaz en serie y el cable de alimentación vienen en una caja por separado.

Inventario

- | | |
|--|---------------------------------------|
| ❶ Stampante DEClaser 1152 | ❷ Cavo di interfaccia seriale (BC16E) |
| ❸ Vassoio di uscita carta frontale | ❸ Cavo di alimentazione |
| ❹ Cartuccia toner EP-L
(Consegnato in una scatola separata) | Documentazione (non illustrata) |
-

Nelle stampanti a 240-volt, il cavo di interfaccia seriale e il cavo di alimentazione sono confezionati in un cartone separato.



MLO-009032C

How to Carry the Printer

Tragen Sie den Drucker folgendermaßen:

Hoe u de printer verplaatst

Comment transporter l'imprimante

Transporte de la impresora

Come maneggiare la stampante



MLO-009029C

Caution: The paper output tray slot is not a handle.

Vorsicht: Der Papierausgabeschacht ist kein Tragegriff.

Let op: De sleuf van de papieruitvoerlande is geen handvat.

Attention: La fente du bac de sortie papier n'est pas une poignée.

Aviso: El hueco de la bandeja de salida de papel no es un asa.

Attenzione: Non impugnare la stampante dalla fessura del vassoio di uscita carta.



MLO-009031C

Remove the Shipping Material

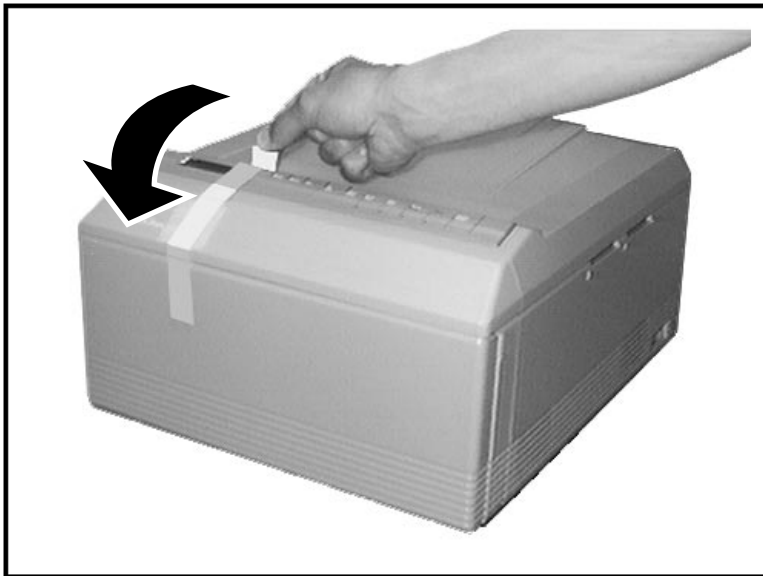
Entfernen Sie die Verpackung.

Verwijder het verpakkingsmateriaal

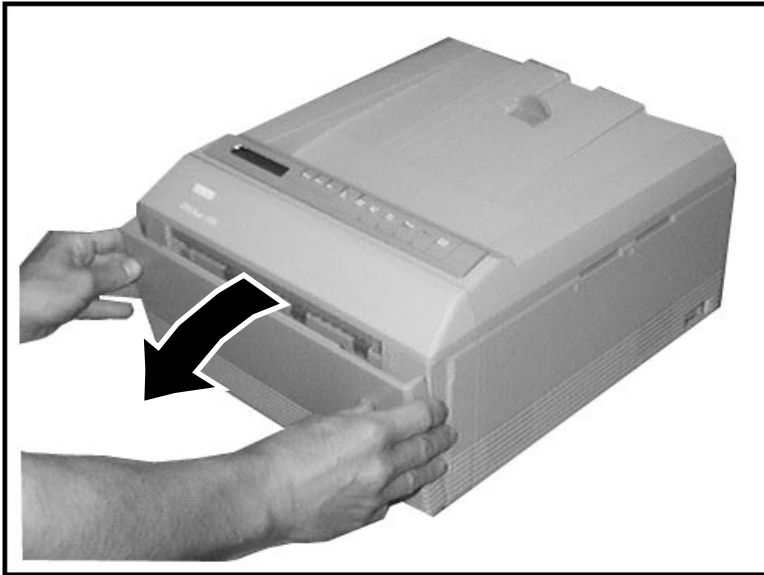
Retrait de l'emballage

Desempaquetado del material de envío

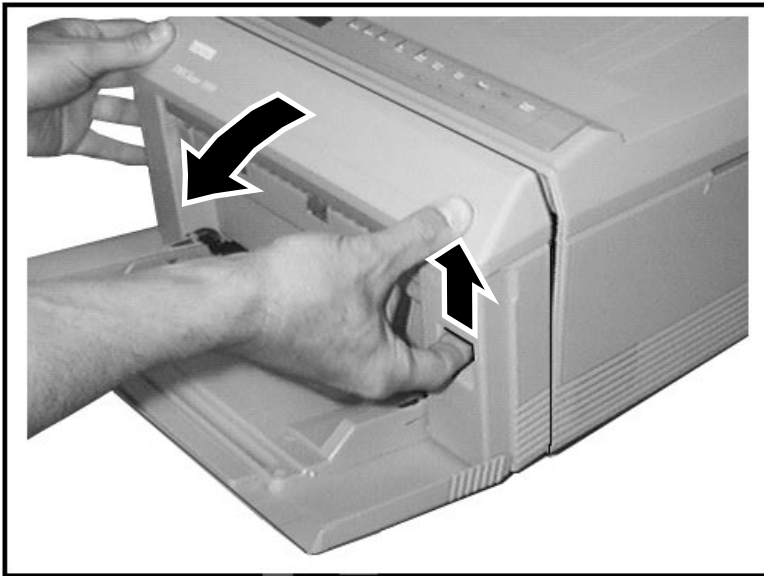
Rimozione dei materiali che bloccano la stampante durante il trasporto



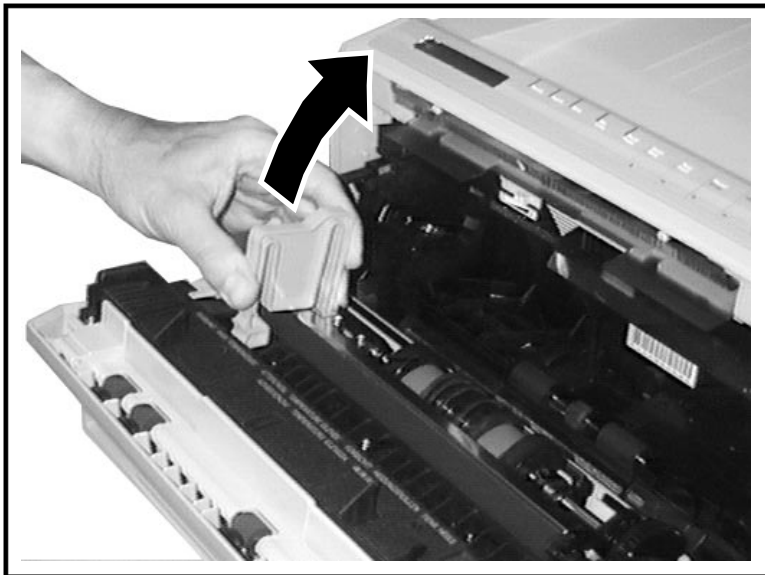
MLO-008983C



MLO-008984C



MLO-008985C



MLO-008986C

Install the EP-L (Toner) Cartridge

Refer to the EP-L cartridge shipping box for instructions on how to handle this cartridge.

Installieren Sie die EP-L-Tonerkassette.

Auf der Verpackung der EP-L-Kassette finden Sie genaue Anweisungen für die richtige Handhabung.

Installeer de EP-L (Toner)cassette

Lees de instructies op de verpakking van de EP-L cassette over hoe de cassette moet worden gebruikt.

Installation de la cartouche EP-L (Toner)

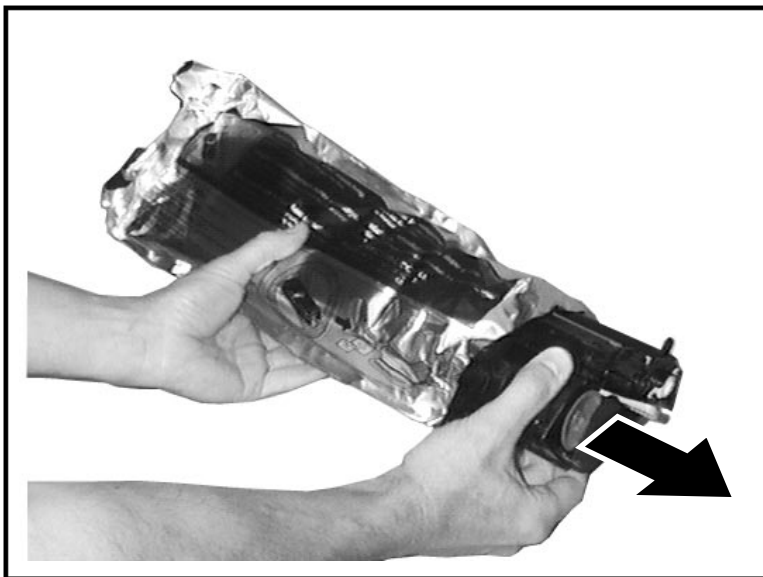
Pour savoir comment manipuler la cartouche EP-L, reportez-vous aux instructions qui figurent sur son emballage.

Instalación del cartucho EP-L (Toner)

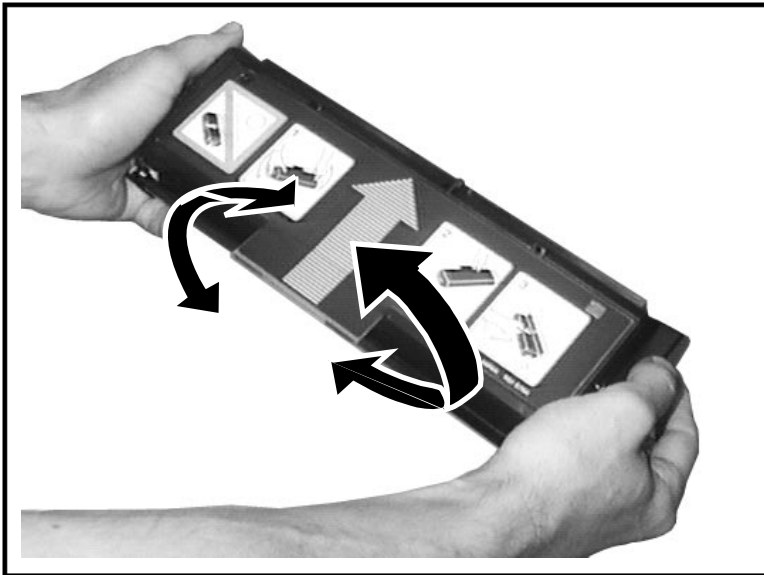
Véase la caja de envío del cartucho EP-L para obtener más instrucciones sobre el manejo de este cartucho.

Installazione della cartuccia del toner EP-L

Fare riferimento all'imballo della cartuccia EP-L per verificare le istruzioni di manipolazione della cartuccia.



MLO-008987C



MLO-008988C

Note

Pull the tab straight out. Pulling the tab at an angle can snap or cut the sealing tape (about 457 mm /18 inches long), leaving some of it inside the cartridge.

If you get toner on your hands or clothing, wash with cold water and soap.

Note

Ziehen Sie die Verschußlasche gerade heraus. Falls die Lasche schräg herausgezogen wird, könnte das (etwa 457 mm lange) Siegelband reißen und teilweise in der Kassette zurückbleiben.

Toner auf Händen oder Kleidung können Sie mit kaltem Wasser und Seife abwaschen.

Note

Trek het lipje recht uit de cassette. Wanneer u het lipje er onder een hoek uittrekt, kan de verzegelingstape (ongeveer 457 mm lang) knappen of worden afgesneden, waardoor er een gedeelte achterblijft in de cassette.

Als er toner aan uw handen of kleren komt, wast u dit af met koud water en zeep.

Note

Tirez horizontalement sur la languette en veillant à ne pas former d'angle avec la cartouche, ce qui risquerait de casser le ruban adhésif de fermeture (long de 457 mm environ) et de laisser une partie de celui-ci à l'intérieur de la cartouche.

Si vous vous tachez les mains ou les vêtements avec du toner, lavez-les à l'eau froide et au savon.

Note

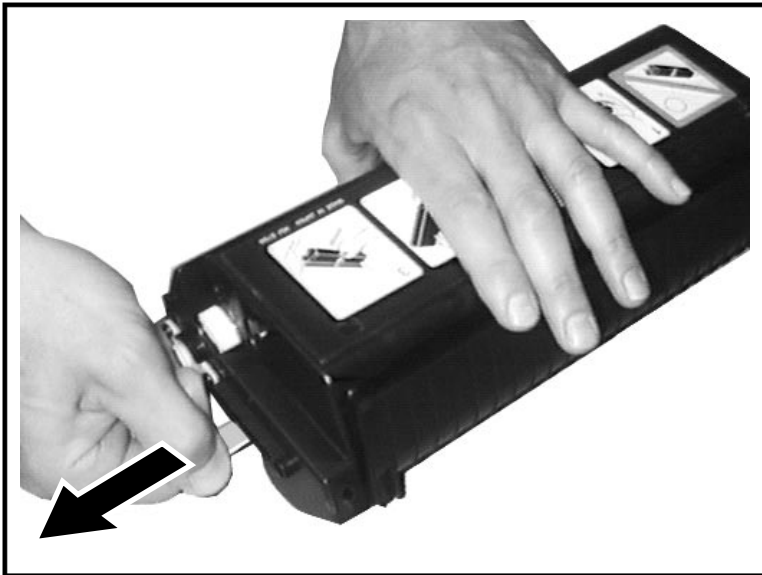
Tire de la pestaña hacia afuera. Si se tira de la pestaña formando un ángulo, se puede romper o cortar la cinta de sellado (de unos 457 mm de largo), dejando parte de la misma dentro del cartucho.

Si se derrama parte del *toner* en las manos o ropas, se deben lavar con agua fría y jabón.

Note

Tirare dritto verso l'esterno il dispositivo a linguetta. Se si tira trasversalmente, si potrebbe far saltare o tagliare il nastro che sigilla la cartuccia (lungo circa 457 mm), lasciandone una parte all'interno della cartuccia stessa.

Se ci si versa del toner sulle mani o sui vestiti, lavarło immediatamente con acqua fredda e sapone.



MLO-008989C



MLO-008990C



MLO-008991C

Attach the Interface Connections

This section describes the interface cables and connections used on the DEClaser 1152 printer.

The callout numbers in the following table apply to the next two illustrations.

Schließen Sie das Schnittstellenkabel an.

In diesem Abschnitt werden die Schnittstellenkabel und -anschlüsse des DEClaser 1152 beschrieben.

Die Referenzangaben in der nachfolgenden Tabelle beziehen sich auf die beiden nächsten Abbildungen.

Sluit de interface-verbindingselementen aan

In dit gedeelte worden de interface-kabels en verbindingselementen beschreven die worden gebruikt op de DEClaser 1152 printer.

De nummers in de volgende tabel zijn van toepassing op de volgende twee illustraties.

Connexion des câbles d'interface

La présente section décrit les connexions et câbles d'interface utilisés avec l'imprimante DEClaser 1152.

Les numéros de renvoi indiqués au tableau suivant concernent les deux illustrations suivantes.

Conexiones de la interfaz

En esta sección se describen los cables y las conexiones de la interfaz utilizados con la impresora DEClaser 1152.

Los números de referencia de la tabla siguiente se aplican a las dos ilustraciones siguientes.

Collegamento dei cavi di interfaccia

Questa sezione descrive i cavi di interfaccia e le connessioni utilizzate sulla stampante DEClaser 1152.

I numeri dei richiami sulla tabella seguente si riferiscono alle successive due illustrazioni.

-
-
- | | |
|-----------------------|-------------------------|
| ❶ EIA-232 Serial | ❷ LocalTalk/SerialB |
| ❸ DEC423 Serial (MMJ) | ❹ Parallel (Centronics) |
-

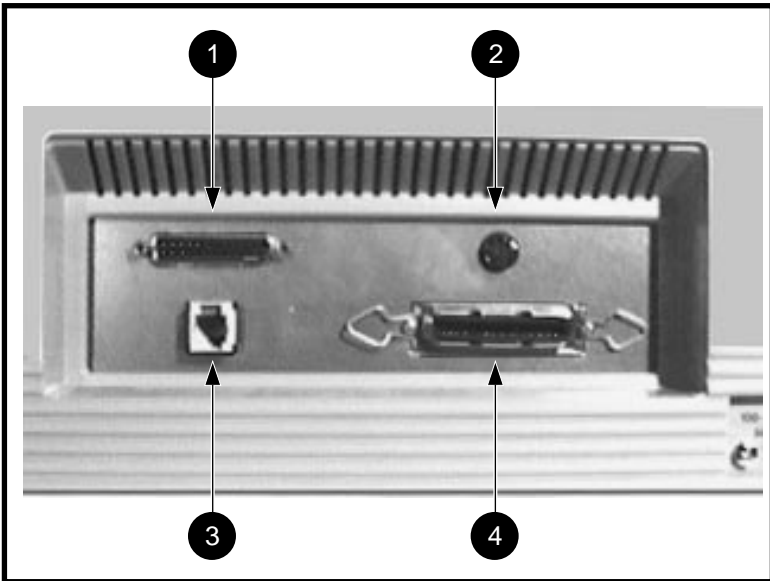
-
-
- | | |
|------------------------|---------------------------------|
| ❶ EIA-232 seriell | ❷ LocalTalk/SerialB (seriell B) |
| ❸ DEC423 seriell (MMJ) | ❹ Parallel (Centronics) |
-

-
-
- | | |
|-----------------------|-------------------------|
| ❶ EIA-232 Serial | ❷ LocalTalk/SerialB |
| ❸ DEC423 Serial (MMJ) | ❹ Parallel (Centronics) |
-

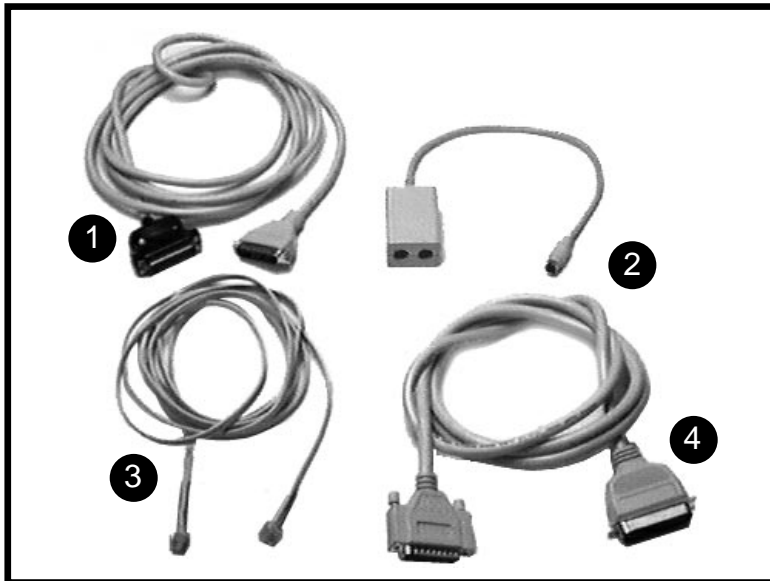
-
-
- | | |
|----------------------|--------------------------|
| ❶ EIA-232 Série | ❷ LocalTalk/SérieB |
| ❸ DEC423 Série (MMJ) | ❹ Parallèle (Centronics) |
-

-
-
- | | |
|-------------------------|----------------------------|
| ❶ EIA-232 en serie | ❷ LocalTalk/SerieB |
| ❸ DEC423 en serie (MMJ) | ❹ En paralelo (Centronics) |
-

-
-
- | | |
|------------------------------|--------------------------------|
| ❶ Porta seriale EIA-232 | ❷ Porta LocalTalk/SerialeB |
| ❸ Porta seriale DEC423 (MMJ) | ❹ Porta parallela (Centronics) |
-



MLO-009018C



MLO-009459C

If your host system accepts the BC16E cable that comes with the printer, install it now.

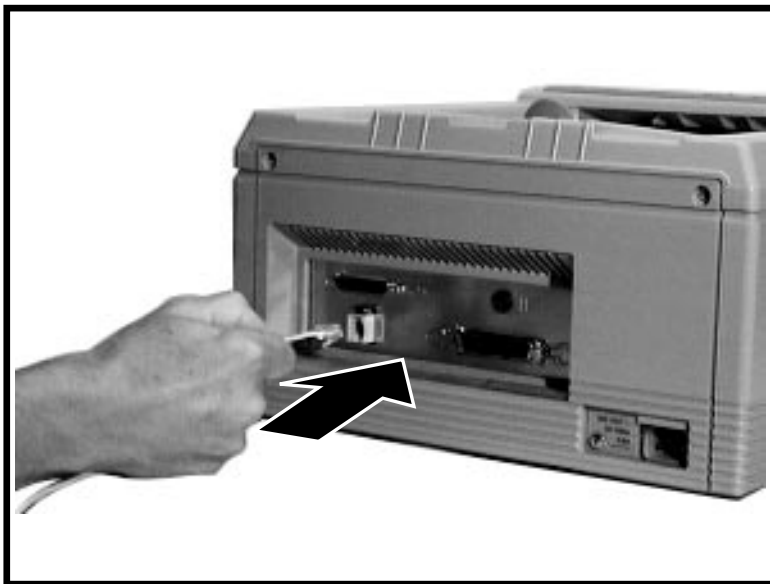
Falls Ihr Hostsystem einen Anschluß über das mitgelieferte Kabel BC16E erlaubt, installieren Sie es jetzt.

Als de BC16E kabel die met de printer wordt meegeleverd, geschikt is voor uw host- systeem, sluit u de kabel nu aan.

Si le système hôte auquel vous êtes relié accepte le câble BC16E livré avec l'imprimante, vous pouvez dès à présent l'installer.

Si el sistema central acepta el cable BC16E que viene con la impresora, se debe instalar ya mismo.

Se il proprio sistema host accetta il cavo BC16E in dotazione alla stampante, installarlo subito.



MLO-009460C

If your host system does not accept the BC16E cable, attach the appropriate interface cable now.

Falls eine Verbindung über das Kabel BC16E nicht möglich ist, verwenden Sie ein anderes passendes Schnittstellenkabel.

Als de BC16E kabel niet geschikt is voor uw host-systeem, sluit u nu de juiste interface-kabel aan.

Si votre système hôte n'accepte pas le câble BC16E, branchez maintenant le câble d'interface approprié.

Si el sistema central no acepta el cable BC16E, el cable de interfaz apropiado se debe conectar ya mismo.

Se il proprio sistema host non accetta il cavo BC16E, collegare subito il cavo di interfaccia appropriato.

The following table shows the different cable combinations to use for connecting your printer to a host device.

Host	Interfaces			
	DEC423	EIA-232	Parallel	LocalTalk
DECstation 3xx DECstation 4xx IBM PC	H8571-J and BC16E ¹	BC22D	BC19M-10	N/A
DECstation VAXstation	BC16E ¹	N/A	N/A	N/A
Macintosh	N/A	N/A	N/A	Apple Part Number: M2068
DECserver 90L+ LATprint	BC16E ¹	N/A	N/A	N/A
VT3xx VT4xx	BC16E ¹	N/A	N/A	N/A
VT2xx	H8571-B and BC16E ¹	N/A	N/A	N/A

¹This interface cable comes with the DEClaser 1152 printer.

In der nachfolgenden Tabelle werden die verschiedenen Kabelkombinationen für den Anschluß Ihres Druckers an das Hostsystem aufgeführt.

Host	Schnittstellen			
	DEC423	EIA-232	Parallel	LocalTalk
DECstation 3xx DECstation 4xx IBM PC	H8571-J und BC16E ¹	BC22D	BC19M-10	—
DECstation VAXstation	BC16E ¹	—	—	—
Macintosh	—	—	—	Apple Teilenummer: M2068
DECserver 90L+ LATprint	BC16E ¹	—	—	—
VT3xx VT4xx	BC16E ¹	—	—	—
VT2xx	H8571-B und BC16E ¹	—	—	—

¹Dieses Schnittstellenkabel wird mit dem DEClaser 1152 geliefert.

In de volgende tabel worden de verschillende kabelcombinaties weergegeven voor het aansluiten van uw printer op een host-apparaat.

Host	Interfaces			
	DEC423	EIA-232	Parallel	LocalTalk
DECstation 3xx DECstation 4xx IBM PC	H8571-J en BC16E ¹	BC22D	BC19M-10	N.V.T.
DECstation VAXstation	BC16E ¹	N.V.T.	N.V.T.	N.V.T.
Macintosh	N.V.T.	N.V.T.	N.V.T.	Apple bestelnummer: M2068
DECserver 90L+ LATprint	BC16E ¹	N.V.T.	N.V.T.	N.V.T.
VT3xx VT4xx	BC16E ¹	N.V.T.	N.V.T.	N.V.T.
VT2xx	H8571-B en BC16E ¹	N.V.T.	N.V.T.	N.V.T.

¹Deze interface-kabel wordt meegeleverd met de DEClaser 1152 printer.

Le tableau ci-dessous répertorie les associations de câbles possibles pour connecter l'imprimante au système hôte.

Hôte	Interfaces			
	DEC423	EIA-232	Parallèle	LocalTalk
DECstation 3xx DECstation 4xx IBM PC	H8571-J et BC16E ¹	BC22D	BC19M-10	N/A
DECstation VAXstation	BC16E ¹	N/A	N/ A	N/A
Macintosh	N/A	N/A	N/A	Référence Apple : M2068
DECserver 90L+ LATprint	BC16E ¹	N/A	N/A	N/A
VT3xx VT4xx	BC16E ¹	N/A	N/A	N/A
VT2xx	H8571-B et BC16E ¹	N/A	N/A	N/A

¹Câble d'interface livré avec l'imprimante DEClaser 1152.

En la tabla siguiente se muestran las distintas combinaciones de cables que se usan al conectar la impresora a un dispositivo central.

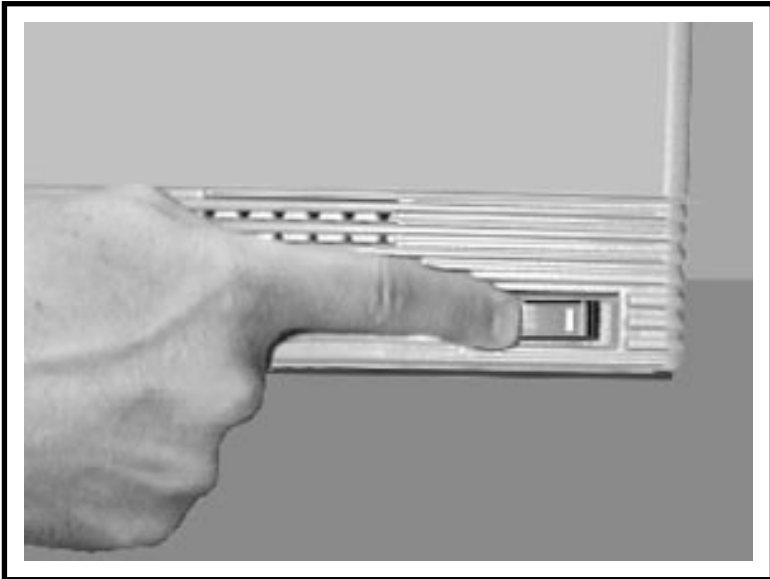
Ordenador central	Interfaces			
	DEC423	EIA-232	En paralelo	LocalTalk
DECstation 3xx DECstation 4xx IBM PC	H8571-J y BC16E ¹	BC22D	BC19M-10	N/A
DECstation VAXstation	BC16E ¹	N/A	N/A	N/A
Macintosh	N/A	N/A	N/A	Referencia de Apple: M2068
DECserver 90L+ LATprint	BC16E ¹	N/A	N/A	N/A
VT3xx VT4xx	BC16E ¹	N/A	N/A	N/A
VT2xx	H8571-B y BC16E ¹	N/A	N/A	N/A

¹Este cable de interfaz viene con la impresora DEClaser 1152.

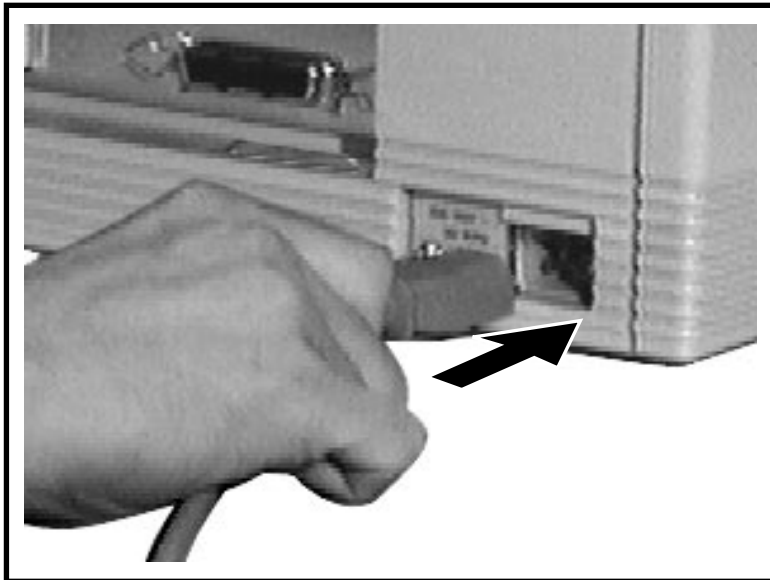
La tabella seguente mostra le diverse combinazioni di cavi per collegare la stampante al proprio sistema.

Host	Interfacce			
	DEC423	EIA-232	Parallela	Locale
DECstation 3xx DECstation 4xx PC IBM	H8571-J e BC16E ¹	BC22D	BC19M-10	N/D
DECstation VAXstation	BC16E ¹	N/D	N/D	N/D
Macintosh	N/D	N/D	N/D	Numero di parte Apple: M2068
DECserver 90L+ LATprint	BC16E ¹	N/D	N/D	N/D
VT3xx VT4xx	BC16E ¹	N/D	N/D	N/D
VT2xx	H8571-B e BC16E ¹	N/D	N/D	N/D

¹Questo cavo di interfaccia viene fornito con la stampante DEClaser 1152.



MLO-009027C



MLO-009017C

Load the Paper

The paper tray holds 70 sheets of 75 g/m² (20 lb.) paper. For further information about paper, refer to the Print Media chapter in the Operator's section of this book.

Legen Sie das Papier ein.

Der Papierbehälter hat eine Kapazität von 70 Blatt (75 g/m²). Im Abschnitt "Bedienungsanleitung" dieses Handbuchs finden Sie im Kapitel "Ausgabemedien" weitere Informationen über verwendbares Papier.

Voer het papier in

De papierlade kan 70 vellen papier van 75 g/m² bevatten. Voor meer informatie over papier raadpleegt u het hoofdstuk Afdrukmedia in het Bedieningsgedeelte van deze handleiding.

Chargement du papier

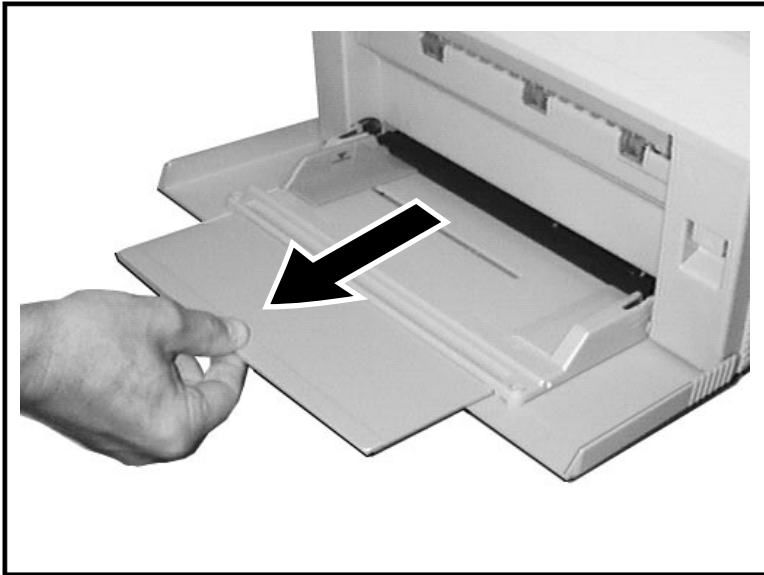
Le bac de papier peut contenir 70 feuilles de 75 g/m². Pour plus d'informations à ce sujet, reportez-vous au chapitre relatif aux supports d'impression (Print Media) dans la suite de ce manuel, section Operator (Utilisation).

Carga del papel

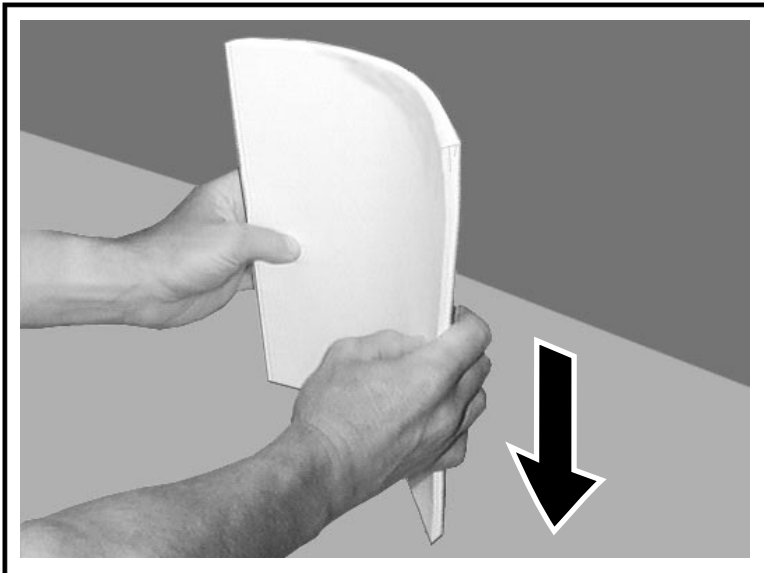
La bandeja de papel contiene 70 hojas de papel de 75 g/m² (20 lb.). Para más información sobre el papel, véase el capítulo referente a medios de impresión de la sección del operador de este manual.

Caricamento della carta

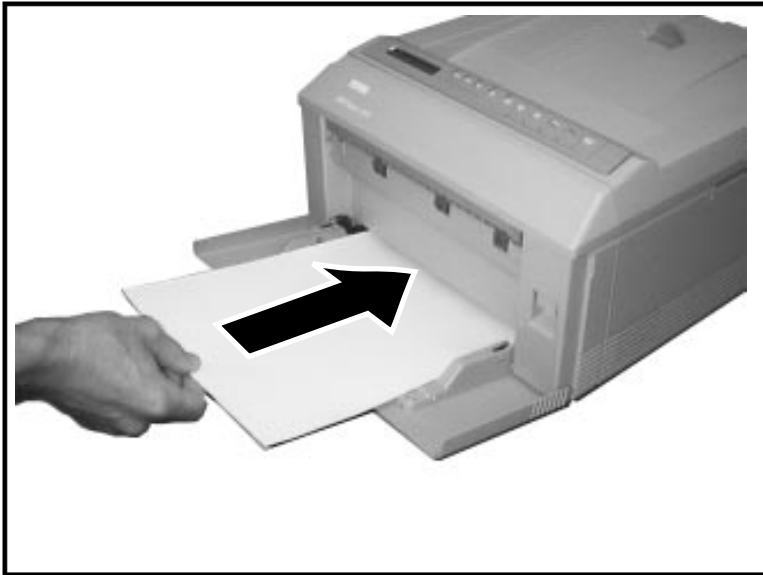
Il vassoio carta ha una capacità di 70 fogli di 75 g/m². Per ulteriori informazioni sulla carta, fare riferimento al capitolo Supporti di Stampa nella sezione Operator's di questo manualetto.



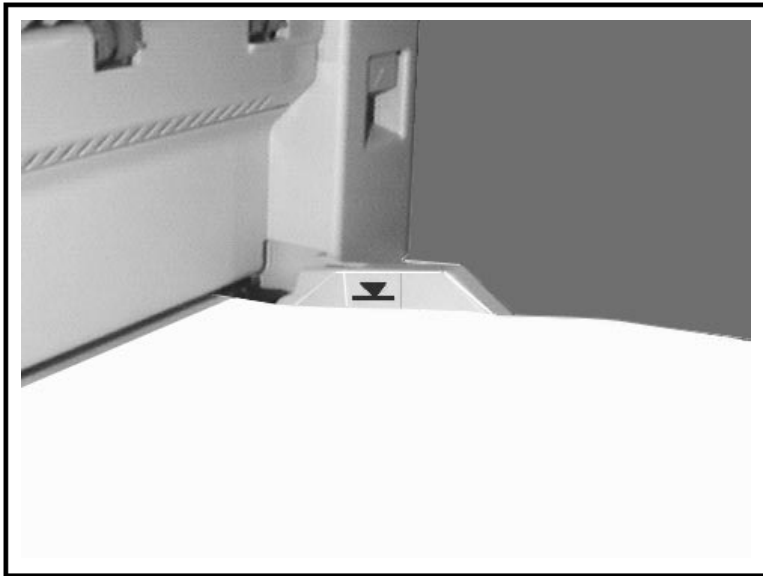
MLO-008994C



MLO-008995C



MLO-008996C



MLO-008998C

Note

Do not press the adjustable paper guide against the stack of paper too tightly. It can restrict movement of the paper into the printer.

Make sure the paper lays flat in the tray.

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

Note

Drücken Sie die einstellbare Papierführung nicht zu fest gegen den Papierstapel, da sonst der freie Papiereinzug in den Drucker beeinträchtigt werden könnte.

Das Papier muß eben im Behälter aufliegen.

Das eingelegte Papier muß sich unterhalb der Papierhöhenführung befinden und darf die obere Begrenzungslinie nicht überschreiten.

Note

Druk de verstelbare papiergeleider niet te strak tegen de stapel papier aan. Het kan zijn dat het papier hierdoor moeilijker naar de printer wordt geleid.

Zorg ervoor dat het papier plat in de lade ligt.

Zorg ervoor dat het papier onder de papierhoogtegeleider ligt en niet boven de papierlimietlijn uitkomt.

Note

Évitez de trop serrer le guide papier réglable contre la pile de feuilles de façon à ne pas entraver l'entraînement du papier dans l'imprimante.

Vérifiez que le papier repose à plat au fond du bac.

Assurez-vous que la pile de feuilles est bien calée en dessous du guide de hauteur de papier et n'excède pas le repère de remplissage.

Note

No se debe apretar la guía de papel ajustable contra el bloque de papel con demasiada fuerza, puesto que puede limitar el movimiento del papel en la impresora.

Hay que asegurarse de que el papel descansa en un ángulo horizontal en la bandeja.

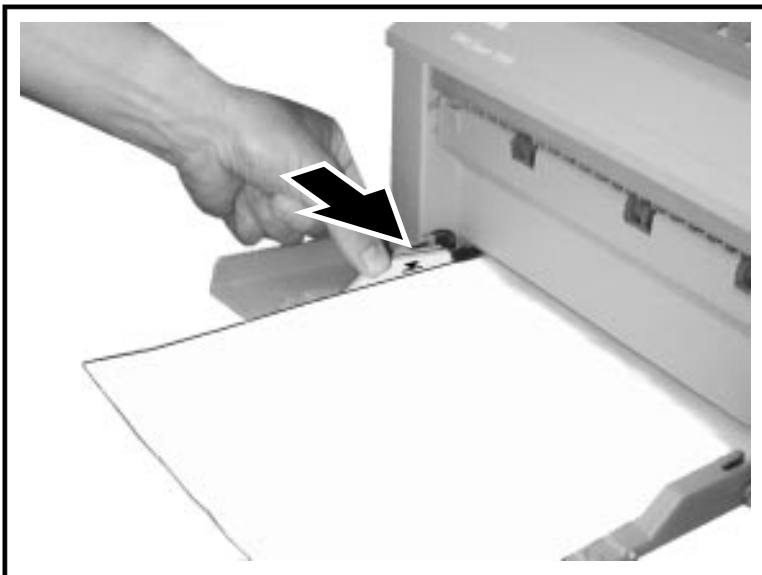
El papel debe encontrarse por debajo de la guía de altura del papel y no por encima de la línea de límite del papel.

Note

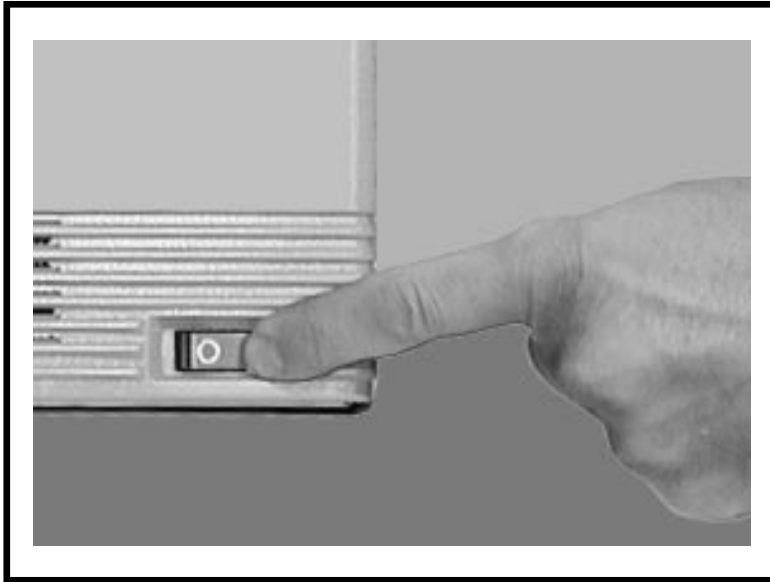
Non forzare la guida contro la pila di carta, altrimenti potrebbe impedire il scivolamento corretto dei fogli carta nella stampante.

Assicurarsi, comunque, che la carta sia ben adagiata nel vassoio.

Accertarsi anche che la pila di carta non superi il limite di altezza indicato.



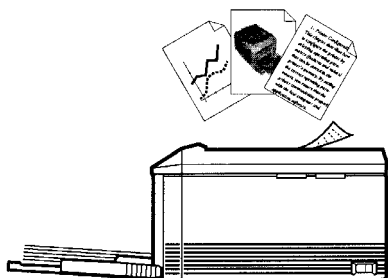
MLO-00897C



MLO-009019C

digitalTM
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

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

Cartridge 1:

1

Not Installed.



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 Software From Adobe

Cartridge 2:

2

Not Installed.

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 *Times and Helvetica are trademarks of Linotype AG and/or its subsidiaries.
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If your printer did not power on as described, refer to the Troubleshooting chapter of the Operator's section of this book.

This concludes the installation of the DEClaser 1152 printer. If you have purchased any of the DEClaser 1152 printer options, you can install them at this time. The next three parts of this section contain the installation instructions for these options.

For day-to-day operation information of your printer, refer to the Operator's section of this book. For information on how your printer works with different operating systems and PC platforms, refer to the *DEClaser 1152 Printer User's Guide*.

Falls der Einschaltvorgang Ihres Druckers nicht der Beschreibung entsprechend verläuft, schlagen Sie im Kapitel "Fehlersuche und -behebung", im Abschnitt "Betriebsanleitung" dieses Handbuchs nach.

Der DEClaser 1152 ist damit installiert. Sie können jetzt eventuell erworbenes Druckerzubehör installieren. Die folgenden drei Teile dieses Abschnitts betreffen die Installation dieser Zusätze.

Allgemeine Informationen über den Betrieb des Druckers finden Sie im Abschnitt "Bedienungsanleitung". Das Handbuch *DEClaser 1152 Printer User's Guide* enthält Informationen über den Betrieb des Druckers in verschiedenen Hard- und Softwareumgebungen.

Als uw printer niet kan worden ingeschakeld op de manier zoals beschreven, raadpleegt u het hoofdstuk Fouten opsporen in het Bedieningsgedeelte van deze handleiding.

Hiermee wordt de beschrijving van de installatie van de DEClaser 1152 printer afgesloten. Als u een of meer optionele uitbreidingen bij de DEClaser 1152 printer hebt aangeschaft, kunt u deze nu installeren. In de volgende drie onderdelen van dit gedeelte worden de installatie-instructies voor deze uitbreidingen beschreven.

Voor informatie met betrekking tot de bediening van uw printer raadpleegt u het Bedieningsgedeelte van deze handleiding. Voor informatie over hoe uw printer werkt in combinatie met verschillende besturingssystemen en PC platforms, raadpleegt u de *DEClaser 1152 Printer User's Guide*.

Si la mise sous tension de l'imprimante ne s'est pas déroulée conformément à la description, reportez-vous au chapitre relatif au dépannage (Troubleshooting) dans la suite du présent manuel, section Operator (Utilisation).

L'installation de l'imprimante DEClaser 1152 est désormais terminée. Si vous avez acheté une des options de l'imprimante, vous pouvez désormais l'installer. La suite de cette section contient les instructions d'installation de ces options.

Les informations sur l'utilisation courante de votre imprimante figurent dans la suite de ce manuel, à la section Operator (Utilisation). Pour savoir comment l'imprimante fonctionne avec différents systèmes d'exploitation et environnements PC, reportez-vous au manuel *DEClaser 1152 Printer User's Guide*.

Si la impresora no realiza el procedimiento de encendido tal y como se ha descrito, véase el capítulo relativo a la detección de errores de la sección del operador de este manual.

Con esto se concluye la instalación de la impresora DEClaser 1152. Si el cliente ha adquirido cualquiera de las opciones de la impresora DEClaser 1152, se pueden instalar en este momento. Las tres partes siguientes de esta sección contienen las instrucciones de instalación de estas opciones.

Para obtener información sobre el funcionamiento habitual diario de la impresora, véase la sección del operador de este manual. Para más información sobre el modo en que la impresora trabaja con los distintos sistemas operativos y plataformas de ordenadores personales, véase el manual *DEClaser 1152 Printer User's Guide*.

Se la stampante non si accende, come indicato dalle istruzioni, riferirsi al capitolo Ricerca guasti nella sezione Operator's di questo manualetto.

L'installazione della stampante DEClaser 1152 è terminata. Se si sono acquisite delle opzioni, procedere alla loro installazione. Le successive tre parti di questa sezione contengono le relative istruzioni di installazione.

Per tutte le informazioni che concernono l'uso normale della stampante, fare riferimento alla sezione Operator's di questo manualetto. Mentre per le informazioni che concernono il funzionamento della stampante con diversi sistemi operativi e piattaforme PC, fare riferimento al manuale *Stampante DEClaser 1152 - Guida utente*.

2 MB Memory Option

This section describes how to install the 2 MB memory board option.

Die 2-MB-Speichererweiterung

In diesem Abschnitt wird beschrieben, wie Sie die 2-MB-Speichererweiterung installieren.

2 Mb geheugen

In dit gedeelte wordt beschreven hoe u de optionele 2 Mb geheugenkaart installeert.

Carte mémoire additionnelle de 2 Mo

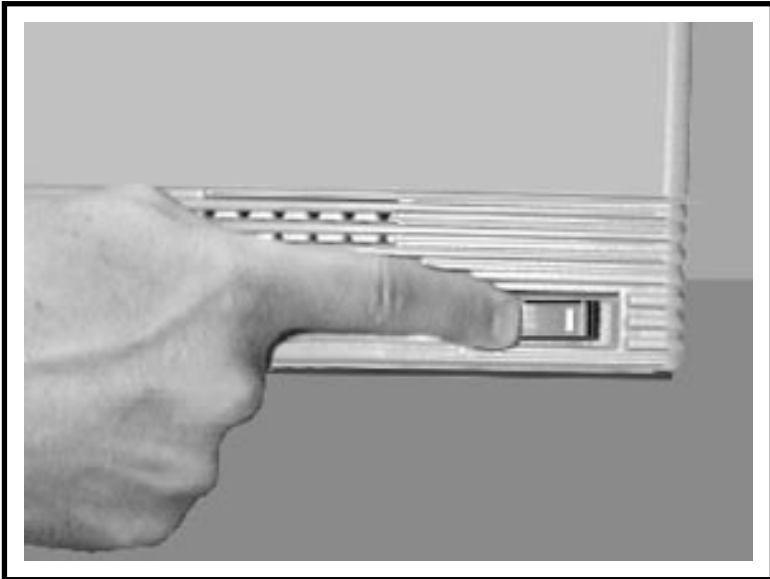
La présente section décrit l'installation de la carte mémoire additionnelle de 2 Mo.

Opción de memoria de 2 MB

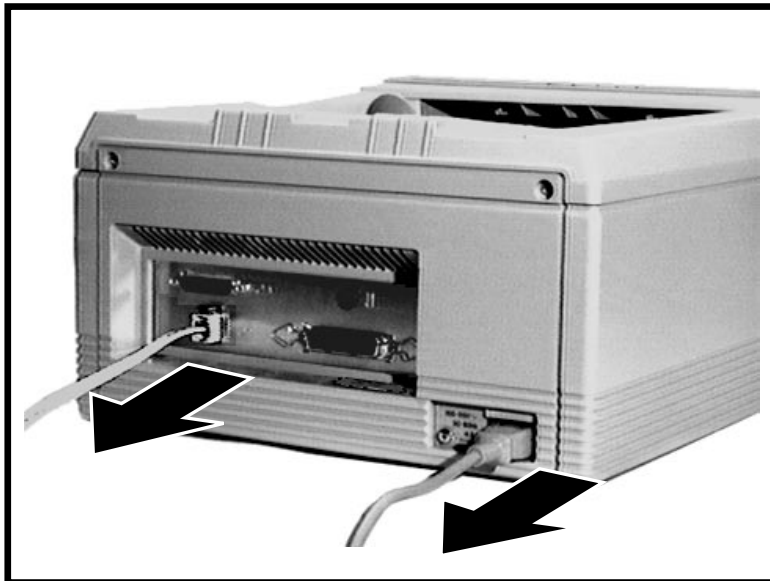
En esta sección se describe la forma de instalar la opción de la placa de memoria de 2 MB.

Opzione - 2 MB di memoria

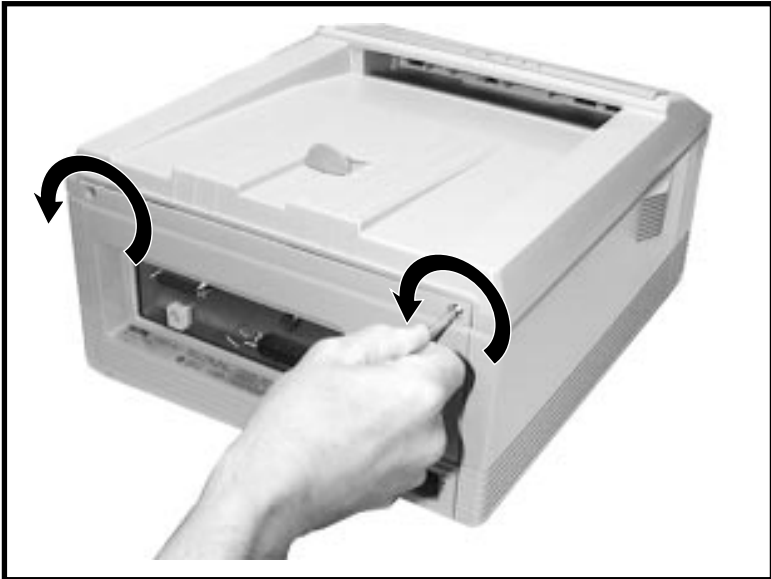
Questa sezione descrive come installare la scheda opzionale di 2 MB di memoria.



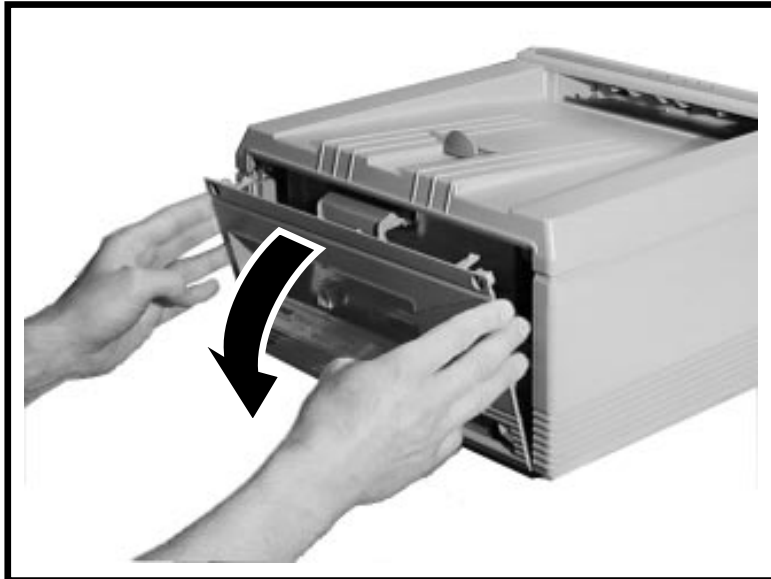
MLO-009027C



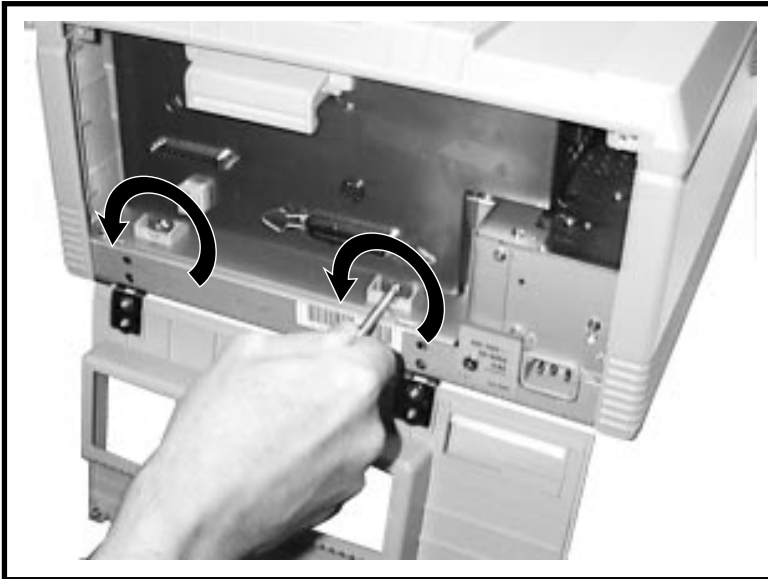
MLO-009467C



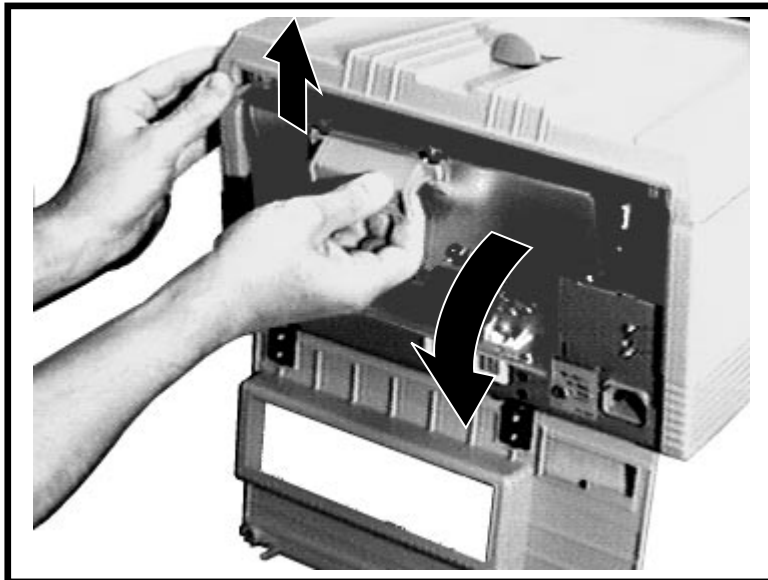
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MLO-009462C



MLO-009021C



MLO-009022C

Caution

Static electricity can cause damage to the memory board. Before taking the memory board out of its protective envelope, touch any metal part of the printer to discharge any static electricity that has built up on you.

Note

The memory board is keyed with a notch ❶. The notch must be on the left-hand side when inserting the memory board into the printer.

Vorsicht

Statische Elektrizität kann das Speichermodul beschädigen. Bevor Sie das Speichermodul aus der Schutzhülle nehmen, sollten Sie irgendein Metallteil des Druckers berühren, um eventuell vorhandene statische Elektrizität zu entladen.

Note

Das Speichermodul ist mit einer Kerbe ❶ versehen. Wenn Sie das Speichermodul in den Drucker einsetzen, muß sich die Kerbe auf der linken Seite befinden (siehe Abbildung).

Let op

Statische elektriciteit kan schade aan de geheugenkaart veroorzaken. Raak, voordat u de geheugenkaart uit de beschermenvelophe haalt, een willekeurig metalen onderdeel van de printer aan, zodat mogelijke statische elektriciteit wordt ontladen.

Note

De geheugenkaart wordt vastgeklemd door middel van een inkeping ❶. De inkeping moet zich aan de linkerzijde bevinden wanneer u de geheugenkaart in de printer steekt.

Attention

Des décharges d'électricité statique peuvent endommager les circuits de la carte mémoire. Touchez une partie métallique de l'imprimante avant de retirer la carte de son enveloppe protectrice.

Note

La carte mémoire comporte une encoche ❶. Celle-ci doit être située à gauche lorsque vous insérez la carte dans l'imprimante.

Aviso

La electricidad estática puede causar daños en la placa de memoria. Antes de sacar la placa de memoria de su sobre protector, se debe tocar una superficie metálica de la impresora para descargar la electricidad estática que se haya podido acumular.

Note

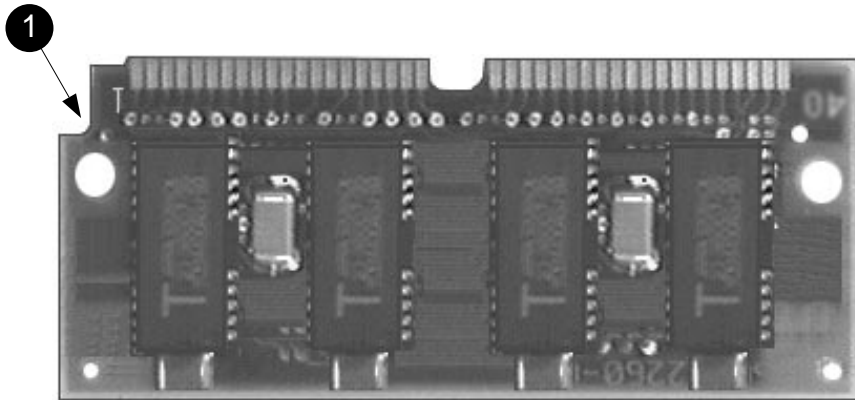
La placa de memoria va asegurada con una muesca ❶, que debe estar en el lado izquierdo cuando la placa de memoria se introduzca en la impresora.

Attenzione

L'elettricità statica può danneggiare la scheda di memoria. Prima di estrarre la scheda dalla sua busta di protezione, toccare una superficie metallica della stampante per scaricare l'eventuale elettricità statica accumulata sul proprio corpo.

Note

La scheda di memoria dispone di una tacca di riferimento per il montaggio **1**. La tacca deve stare a sinistra quando si inserisce la scheda nella stampante.



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Install the memory board.

- Insert the memory board at a 45° angle as shown in the following illustration.
- Push it in and up, until it clicks in place.

Installieren Sie das Speichermodul.

- Führen Sie das Speichermodul in einem Winkel von 45° ein (siehe nachstehende Abbildung).
- Drücken Sie es vorsichtig hinein und nach oben, bis es einklickt.

Installeer de geheugenkaart.

- Plaats de geheugenkaart onder een hoek 45° graden, op de manier zoals weergegeven op onderstaande illustratie.
- Duw de kaart naar binnen en omhoog totdat hij met een klik op zijn plaats zit.

Procédez à l'installation de la carte mémoire.

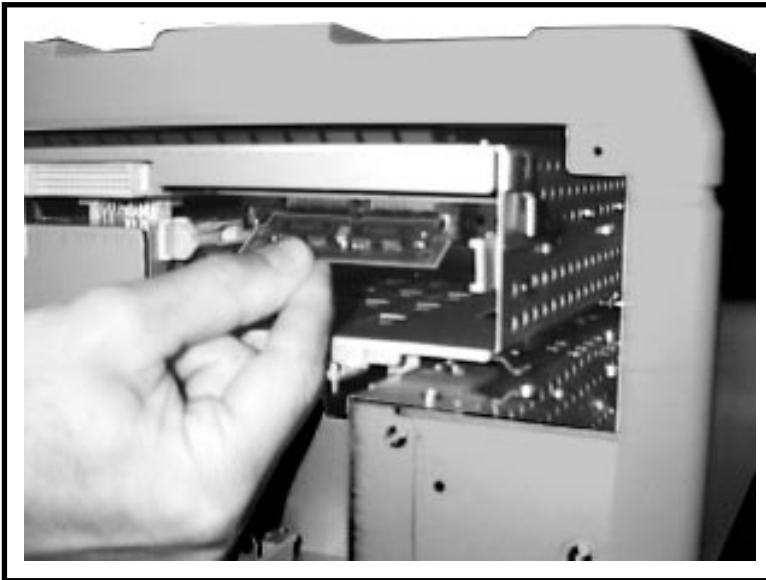
- Présentez la carte à un angle de 45° comme le montre la figure suivante.
- Enfoncez-la tout en la soulevant jusqu'à ce qu'elle s'enclenche.

Se instala la placa de memoria.

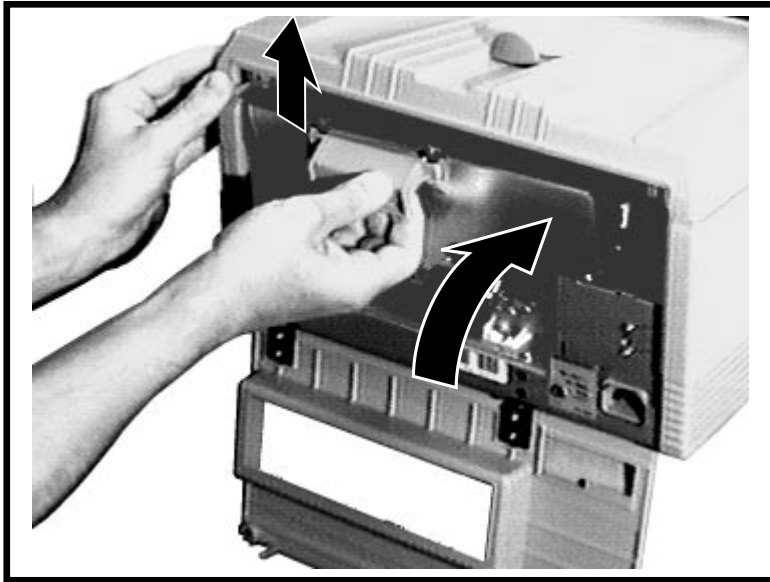
- La placa de memoria se instala con un ángulo de 45°, tal y como se muestra en la ilustración siguiente.
- Se pulsa hacia adentro y hacia arriba, hasta que encaje en su lugar.

Installazione della scheda di memoria.

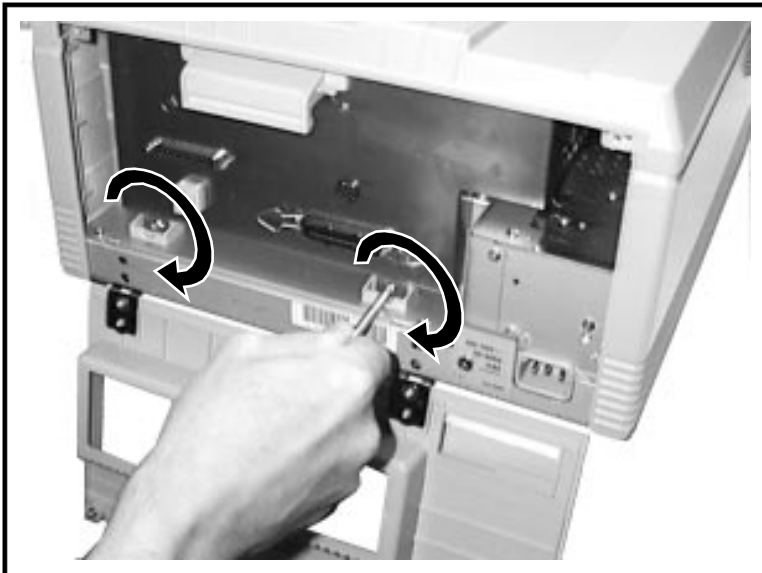
- Inserire la scheda di memoria con un angolo di inclinazione di 45°, come mostrato nella seguente illustrazione.
- Spingerla con fermezza finché non si inserisce bene nella sua sede con uno scatto.



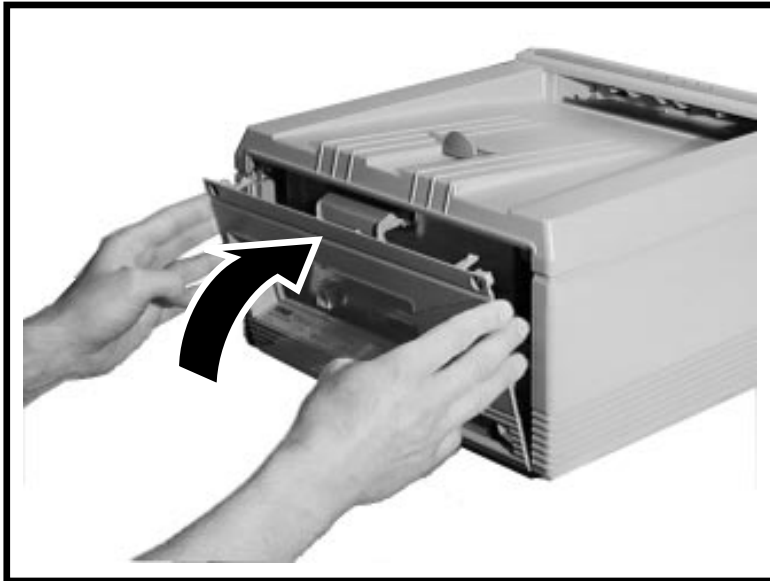
MLO-009026C



MLO-009015C



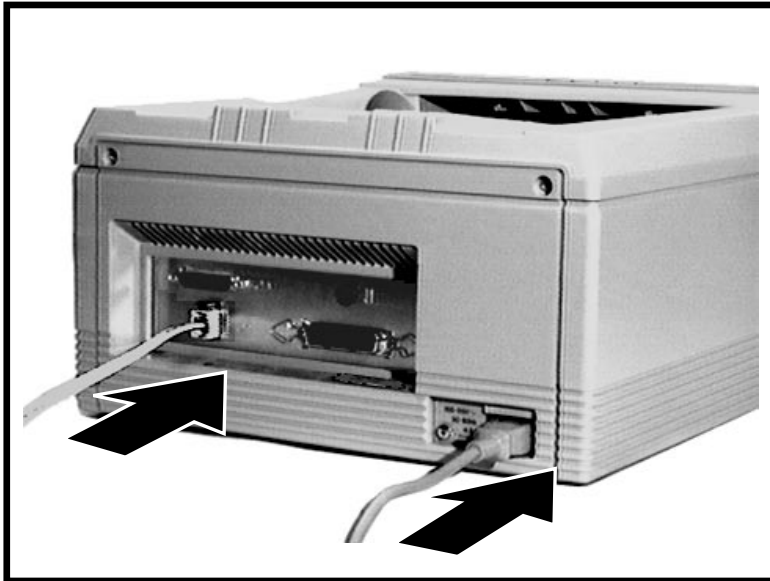
MLO-009457C



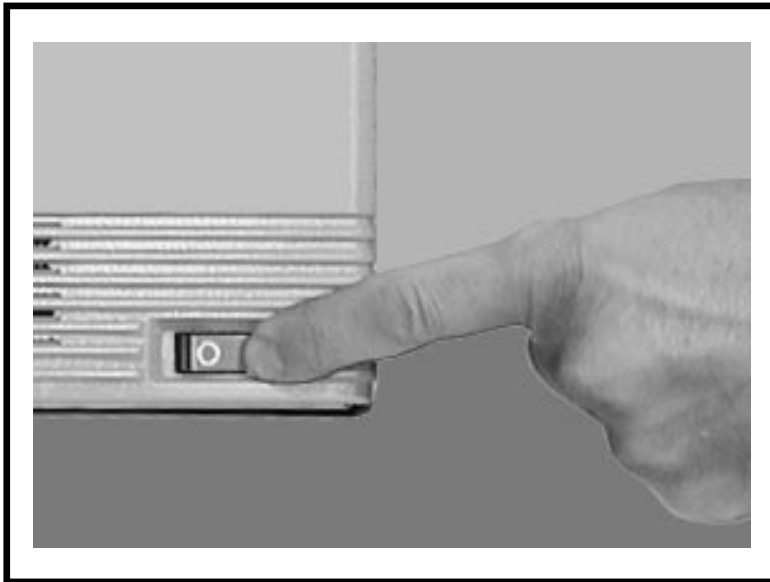
MLO-009463C



MLO-009454C



MLO-009466C



MLO-009019C

To verify the installation:

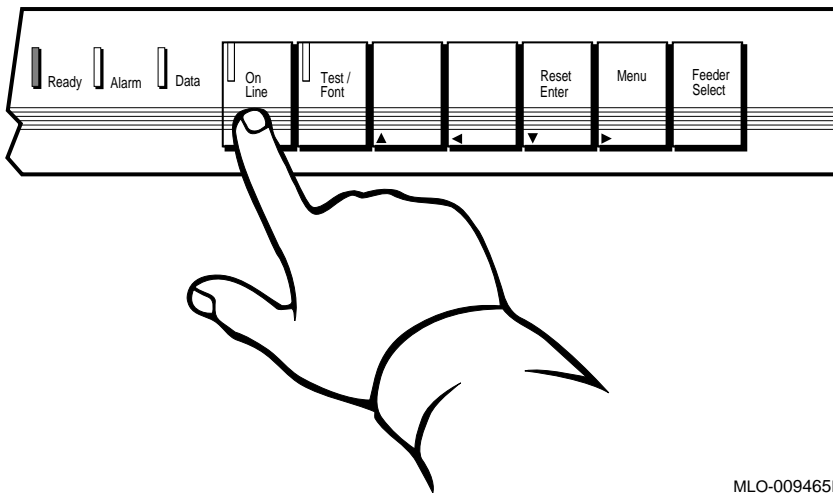
Kontrolle der Installation:

Testen van de installatieprocedure:

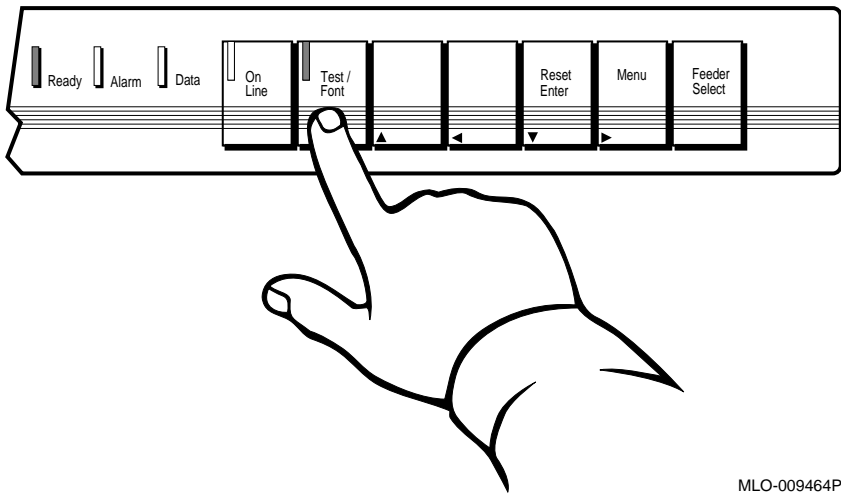
Pour vérifier l'installation :

Para verificar la instalación:

Per verificare l'installazione:

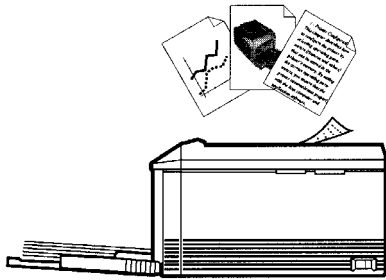


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MLO-009464P

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DEClaser 1152
DEClaser 1152
 POSTSCRIPT® Interpreter Version 2011.110 Revision 5 from Adobe Systems Incorporated



990 pages printed.
 4 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

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

Cartridge 1:



Not Installed.



Cartridge 2:



Not Installed.

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 *Times and Helvetica are trademarks of Linotype AG and/or its subsidiaries.
 The Digital logo is a trademark of Digital Equipment Corporation.

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When the Data light goes off:

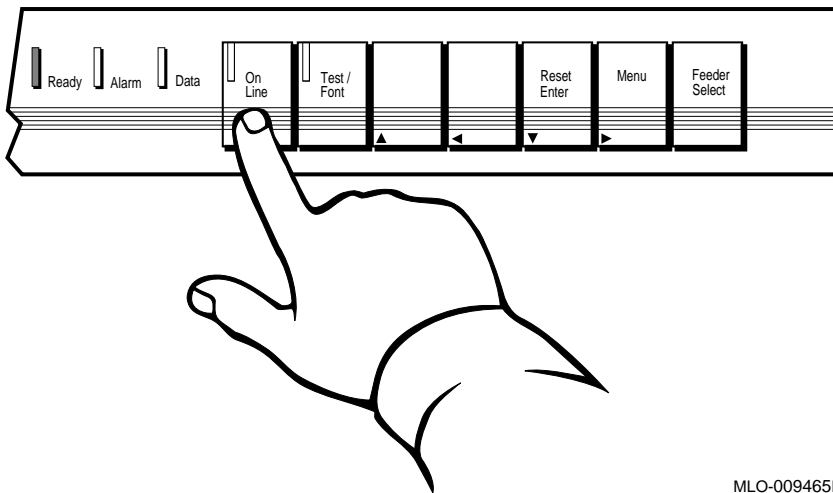
Die Kontrollleuchte "Daten" geht aus:

Wanneer het Data-lampje uitgaat:

Lorsque le voyant lumineux s'éteint :

Cuando la luz *Data* se apague:

Quando la luce della spia Dati si spegne:



MLO-009465P

If the test sheet does not print, see the Troubleshooting chapter in the Operator's section of this book.

Falls das Testblatt nicht gedruckt werden kann, schlagen Sie im Kapitel "Fehlersuche und -behebung", im Abschnitt "Bedienungsanleitung" dieses Handbuchs nach.

Als het testvel niet wordt afgedrukt, raadpleegt u het hoofdstuk Fouten opsporen in het Bedieningsgedeelte van deze handleiding.

Si la page de test ne s'imprime pas, reportez-vous au chapitre relatif au dépannage (Troubleshooting) dans la suite de ce manuel, à la section Operator (Utilisation).

Si la hoja de prueba no se imprime, véase el capítulo relativo a detección de errores en la sección del operador de este manual.

Se non viene stampato il foglio di prova, fare riferimento al capitolo Ricerca guasti nella sezione Operator's di questo manualetto.

Paper Feeder Option

This section describes how to install the paper feeder option.

Die automatische Papierzufuhr

In diesem Abschnitt wird beschrieben, wie Sie die automatische Papierzufuhr installieren.

Optionele papiertoevoerinstallatie

In dit gedeelte wordt beschreven hoe u de optionele papiertoevoerinstallatie installeert.

Bac d'alimentation papier optionnel

Cette section décrit l'installation du bac d'alimentation papier optionnel.

Opción de alimentador de papel

En esta sección se describe cómo instalar la opción del alimentador de papel.

Alimentatore carta opzionale

Questa sezione descrive come installare l'alimentatore carta opzionale.

Inventory

- | | | |
|---------------|--|-----------------|
| ❶ Screwdriver | ❸ Paper feeder unit | ❺ Documentation |
| ❷ 4 Screws | ❹ 1 A4 (210 mm x 297 mm) cassette
or 1 8½ in. x 11 in. cassette | |
-

Bestandsliste

- | | | |
|-------------------|--|-----------------|
| ❶ Schraubenzieher | ❸ Automatische Papierzufuhr | ❺ Dokumentation |
| ❷ 4 Schrauben | ❹ 1 Kassette A4 (210 mm x 297 mm)
oder 1 Kassette 8½ Zoll x 11 Zoll | |
-

Onderdelen

- | | | |
|--------------------|-----------------------------------|----------------|
| ❶ Schroevendraaier | ❸ Papiertoevoerinstallatie | ❺ Documentatie |
| ❷ 4 Schroeven | ❹ 1 A4 (210 mm x 297 mm) cassette | |
-

Inventaire

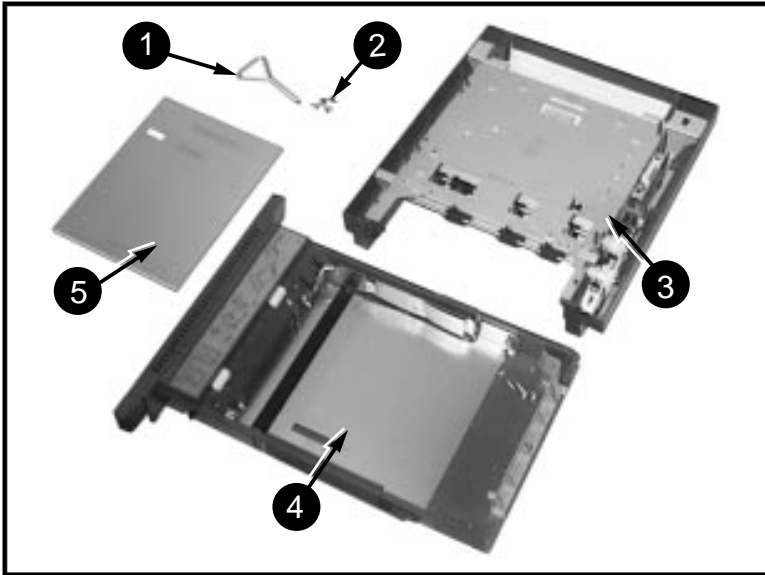
- | | | |
|-------------|--|-----------------|
| ❶ Tournevis | ❸ Unité d'alimentation papier | ❺ Documentation |
| ❷ 4 vis | ❹ 1 cassette A4 (210 mm x 297 mm)
ou 1 cassette 8½ po. x 11 po. | |
-

Inventario

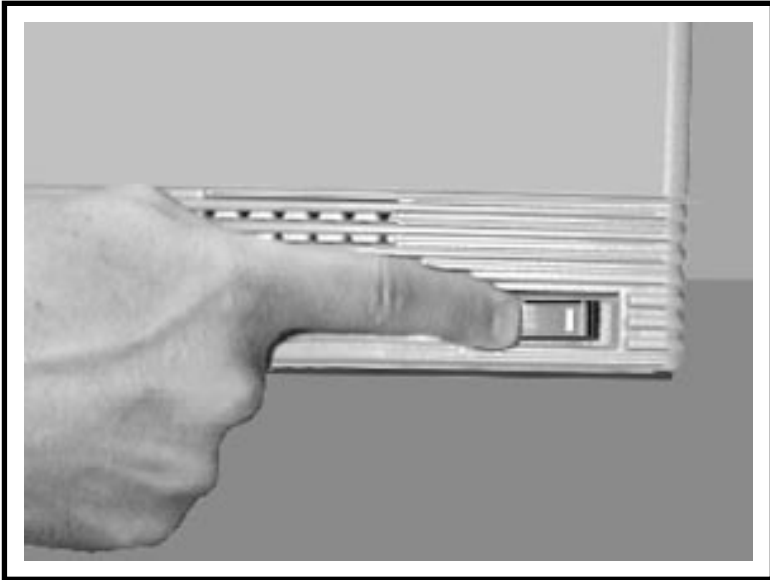
- | | | |
|------------------|---|-----------------|
| ❶ Destornillador | ❸ Unidad del alimentador de papel | ❺ Documentación |
| ❷ 4 tornillos | ❹ 1 bandeja con tapa de tamaño A4
(210 mm x 297 mm)
o 1 bandeja con tapa de 8½ x 11
pulgadas | |
-

Inventario

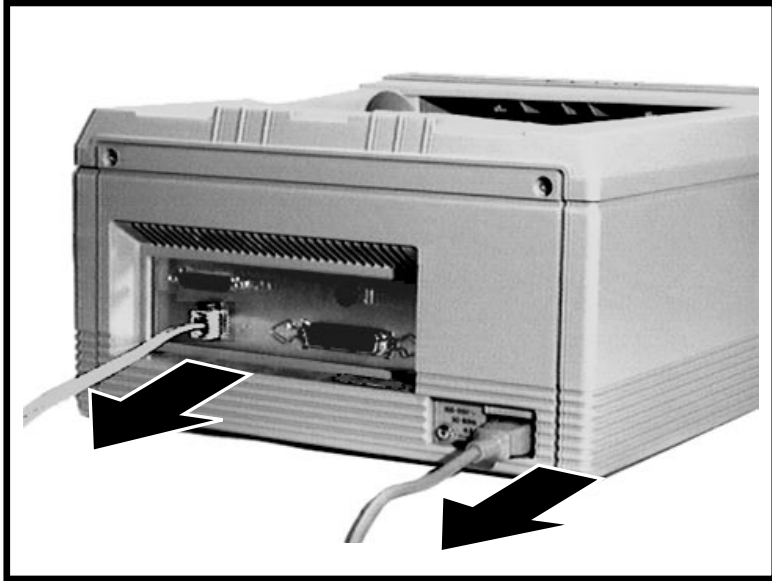
- | | | |
|--------------|--|------------------|
| ❶ Cacciavite | ❸ Unità di alimentazione carta | ❺ Documentazione |
| ❷ 4 Viti | ❹ 1 cassetto per il formato A4
(210 mm x 297 mm) o
1 cassetto per il formato
215mm x 280mm. | |
-



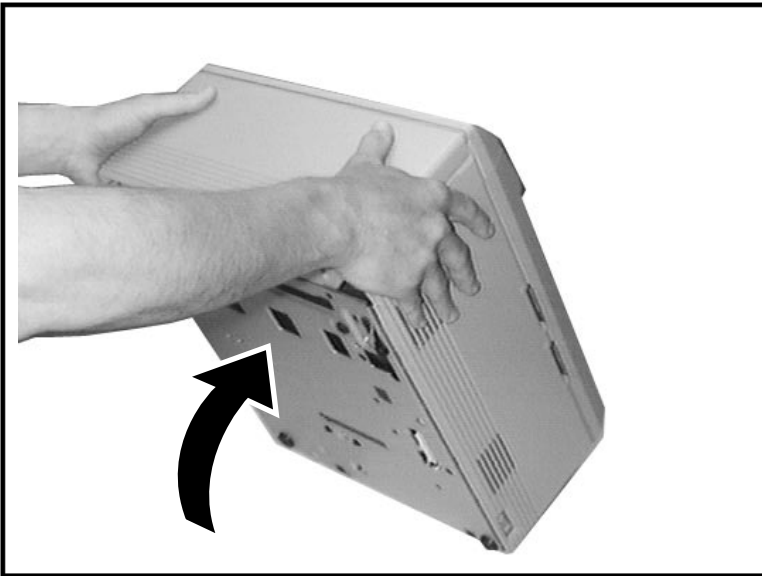
MLO-009001C



MLO-009027C



MLO-009467C



MLO-009003C

Warning

Handle the paper feeder unit as shown.

Caution

Static electricity can cause damage. Never touch the printed circuit board connector (see illustration).

Vorsicht

Berühren Sie die automatische Papierzufuhr nur so, wie es in den Abbildungen gezeigt wird.

Statische Elektrizität kann die elektronischen Teile beschädigen. Berühren Sie auf keinen Fall den Leiterplattenanschluß (siehe Abbildung).

Waarschuwing

Hanteer de papiertoevoerinstallatie op de manier zoals is afgebeeld in de illustraties.

Let op

Statische elektriciteit kan schade veroorzaken. Raak nooit het verbindingsselement voor de voorbedrukte printplaat aan (zie illustratie).

Danger

Manipulez l'unité d'alimentation papier comme la figure l'indique.

Attention

Les décharges d'électricité statique peuvent endommager les circuits imprimés. Ne touchez jamais le connecteur de la carte (voir illustration).

Aviso

Maneje el alimentador de papel tal y como se muestra.

Precaución

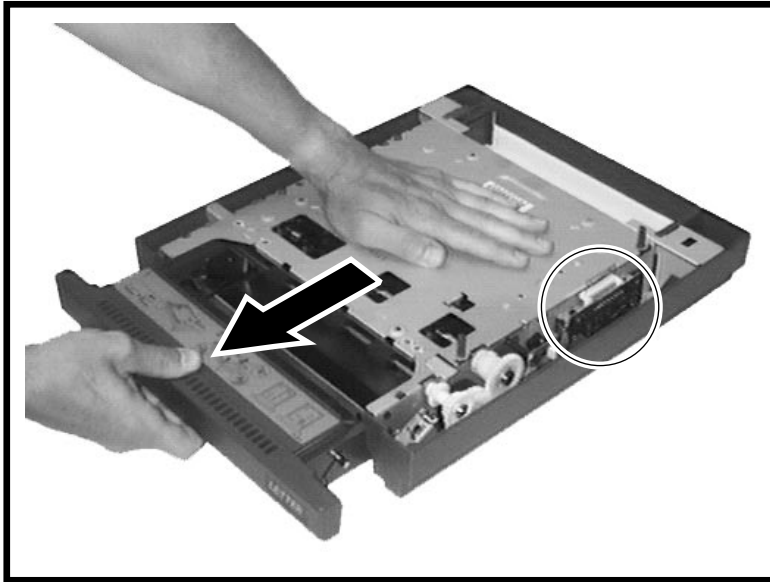
La electricidad estática puede causar daños. Nunca se debe tocar el conector de la placa del circuito impreso (véase la ilustración).

Avvertenza

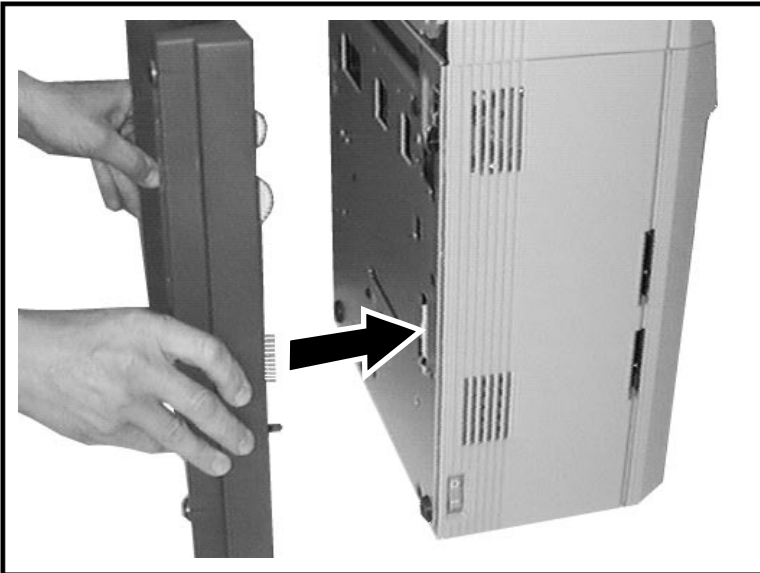
Manipolare l'unità di alimentazione carta come mostrato nell'illustrazione.

Attenzione

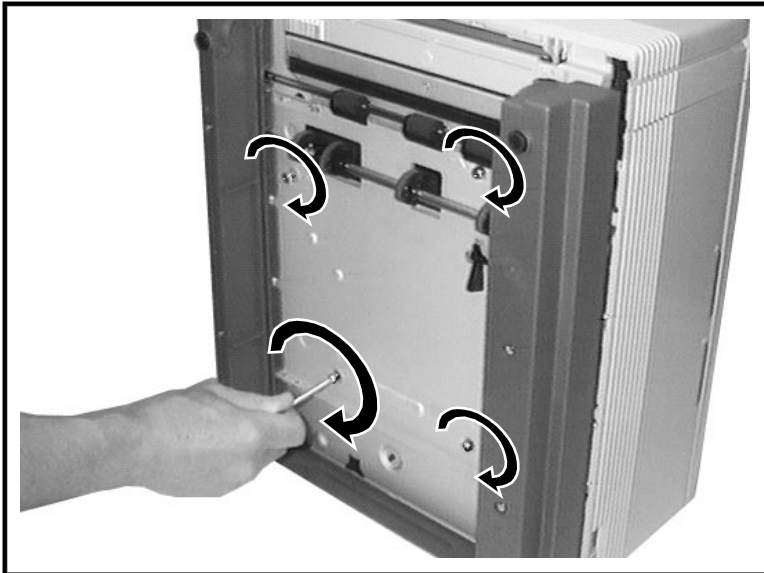
L'elettricità statica può causare danni ai circuiti stampati. Evitare quindi di toccare il connettore della scheda a circuito stampato (vedere l'illustrazione).



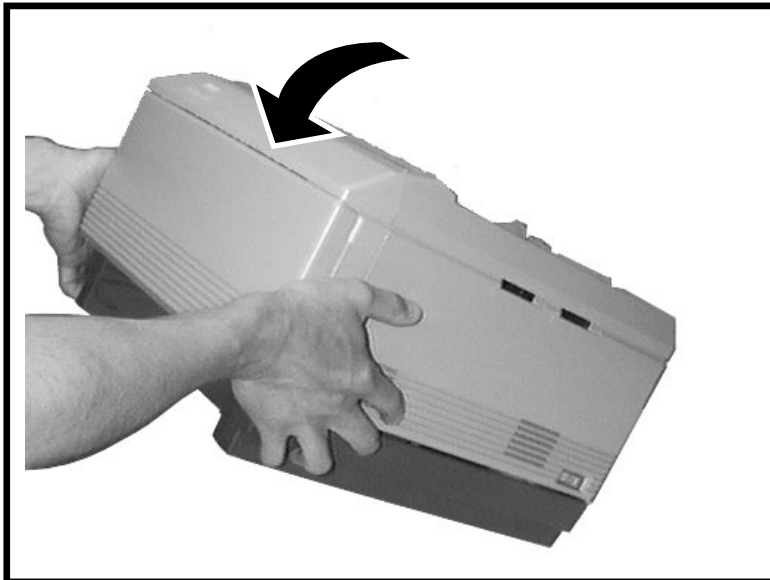
MLO-009002C



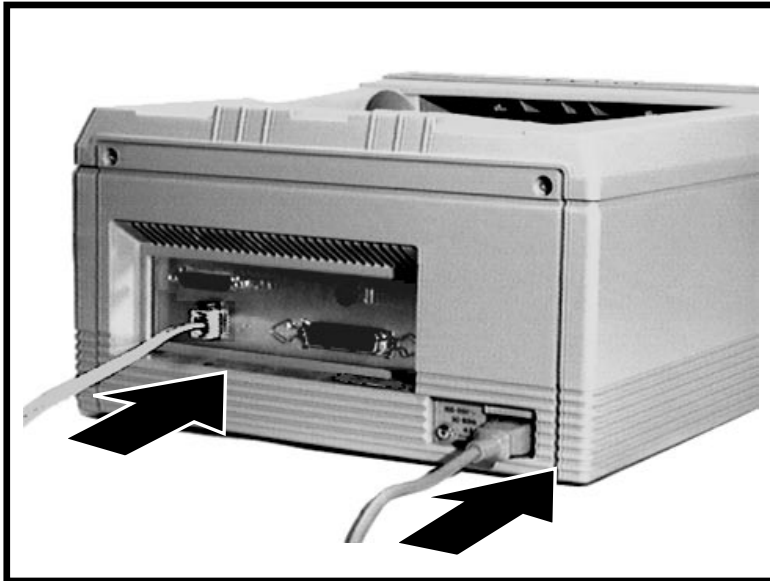
MLO-009004C



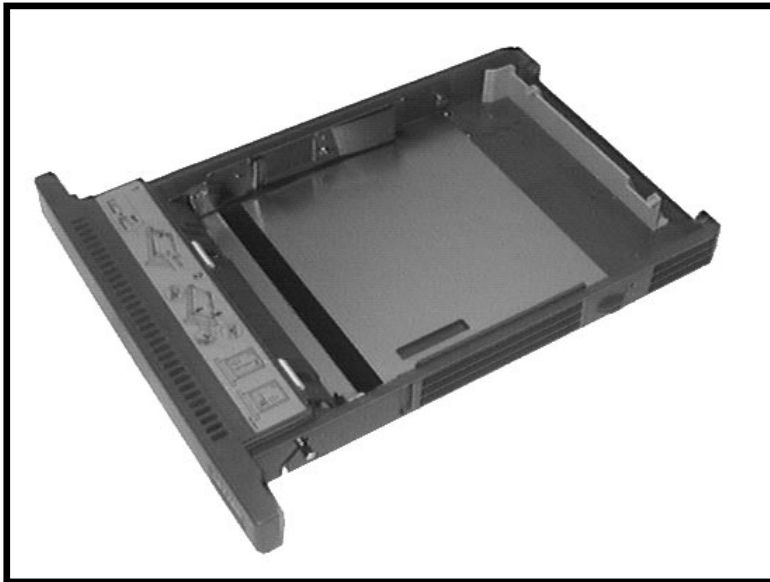
MLO-009005C



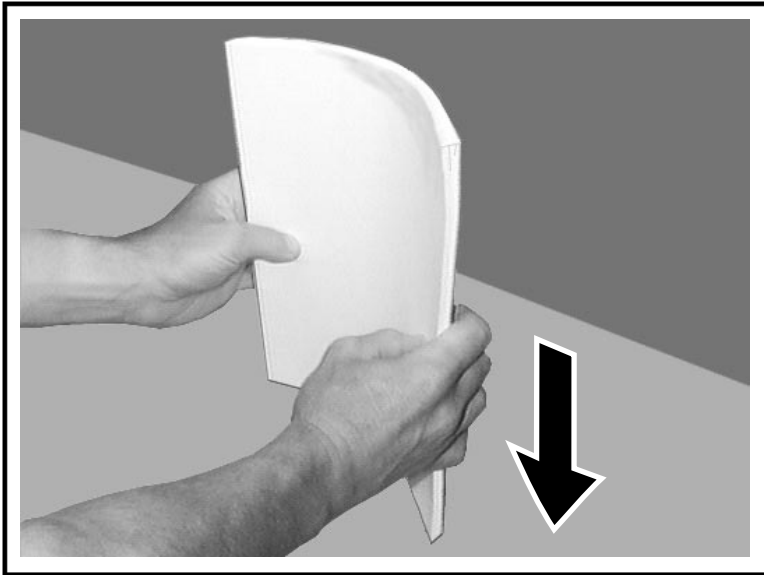
MLO-009006C



MLO-009466C



MLO-009007C



MLO-008995C

Load paper into the paper cassette by first inserting it into the back of the cassette as shown.

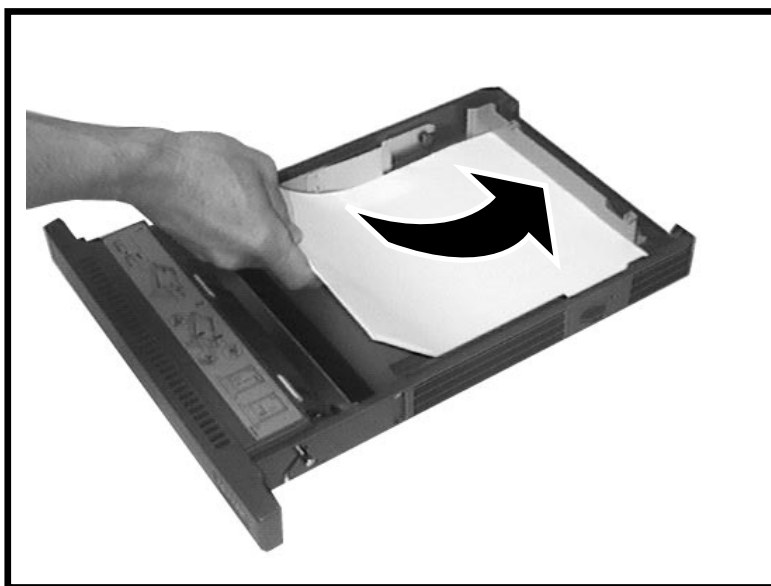
Legen Sie das Papier in die Papierkassette ein, wobei es eben an der Rückseite der Kassette anliegen muß (siehe Abbildung).

Vul de papercassette, waarbij u het papier eerst in de achterzijde van de cassette steekt, op de manier zoals is afgebeeld op de illustratie.

Introduisez le papier dans la cassette en l'alignant tout d'abord contre la butée arrière.

El papel se carga en la bandeja introduciéndolo por su parte posterior, tal y como se muestra.

Caricare la carta nel cassetto appoggiandola prima contro la parete posteriore del cassetto stesso.



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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.

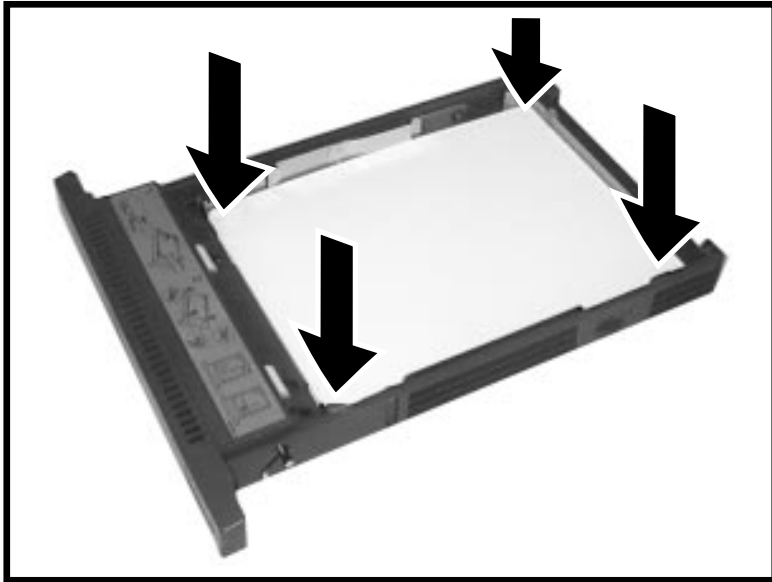
Drücken Sie auf die vier Ecken des Papierstapels, damit das Papier eben auf dem Kassettenboden aufliegt. Die vier Haltebügel vorne und hinten an der Kasette müssen dabei über den Papierstapel fassen.

Druk in benedenwaartse richting op de vier hoeken van de stapel papier, om ervoor te zorgen dat het papier plat in de cassette ligt. De stapel papier moet onder de bevestigingsklemmen aan de voor- en achterzijde van de cassette liggen.

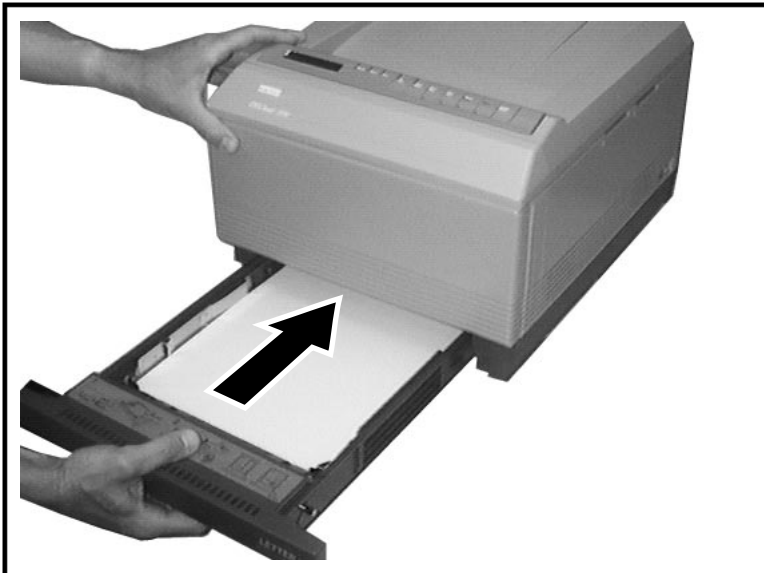
Exercez une pression sur les quatre coins de la pile de papier pour qu'elle repose bien à plat contre le fond de la cassette. La pile de papier doit être calée en dessous des pattes de retenue situées à l'avant et à l'arrière de la cassette.

Se deben apretar los cuatro vértices del bloque de papel para asegurarse de que el papel se encuentre en un plano horizontal dentro de la bandeja. El bloque de papel debe encontrarse por debajo de las abrazaderas de retención de la parte anterior y posterior de la bandeja.

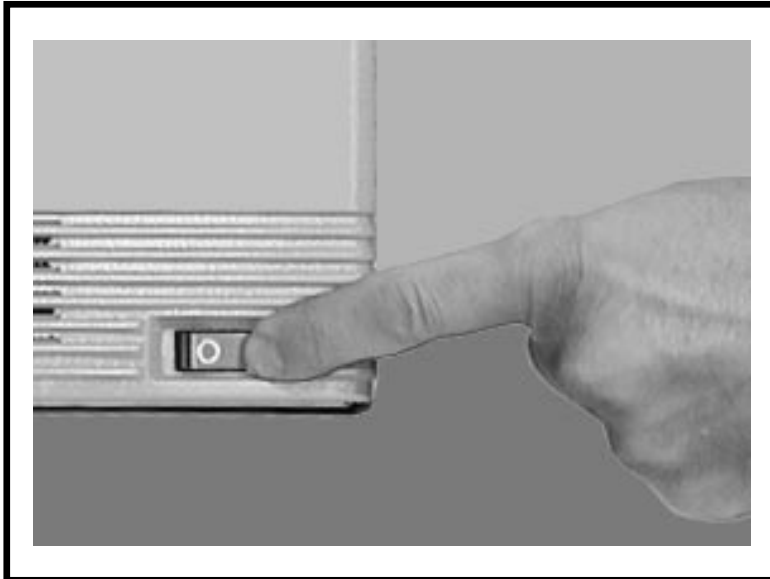
Assicurarsi che i fogli di carta siano ben adagiati nel cassetto esercitando una leggera pressione sugli angoli della pila di carta. Inoltre, i fermi di allineamento, sul davanti e sul retro del cassetto, dovranno trovarsi sopra la pila stessa.



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Font Cartridge Option

This section describes how to install the font cartridge option.

The printer must be OFF (0) before removing or inserting the font cartridge. The font cartridge must be inserted with the notch side down ❶. The following illustration shows the proper way to insert the cartridge. The cartridge can be inserted in either cartridge slot.

Caution

Inserting the cartridge with the notch side up can damage the cartridge and the printer.

Die Fontkassette

In diesem Abschnitt wird beschrieben, wie Sie die zusätzliche Fontkassette installieren.

Die Fontkassette darf nur bei ausgeschaltetem Drucker (0) eingesetzt oder herausgenommen werden. Die Kassette muß mit der Öffnung nach unten eingeführt werden. Die nachfolgenden Abbildung zeigt, wie die Kassette richtig eingesetzt wird. Sie können wahlweise einen der beiden Einschubschlitze verwenden.

Vorsicht

Wenn Sie die Kassette mit der Öffnung nach oben einsetzen, könnten Sie die Kassette und den Drucker beschädigen.

Optionele font-cassette

In dit gedeelte wordt beschreven hoe u de optionele font-cassette installeert.

De printer moet uit staan (schakelaar op 0) voordat u de font-cassette verwijderd of plaatst. De font-cassette moet worden geplaatst met de zijde van de inkeping naar beneden. Op de volgende illustratie wordt weergegeven hoe u de cassette op de juiste wijze installeert. De cassette kan in een van beide cassettesleuven worden geplaatst.

Let op

Als u de cassette met de zijde van de inkeping naar boven plaatst, kan zowel de cassette als de printer worden beschadigd.

Cartouche de polices additionnelles

La présente section décrit l'installation de la cartouche de polices additionnelles.

Pour procéder à l'installation ou au retrait de la cartouche de polices, vous devez tout d'abord mettre l'imprimante hors tension (position OFF (0)). Veuillez ensuite à insérer la cartouche avec la fente vers le bas. L'illustration ci-dessous vous indique comment positionner la cartouche. Vous pouvez l'insérer dans l'une ou l'autre fente disponible.

Attention

L'insertion d'une cartouche fente vers le haut peut à la fois endommager la cartouche et l'imprimante.

Opción del cartucho de estilos tipográficos

En esta sección se describe cómo instalar la opción del cartucho de estilos tipográficos.

La impresora debe estar apagada (0) antes de retirar o introducir el cartucho de estilos tipográficos. Dicho cartucho debe introducirse con la muestra boca abajo. En la ilustración se muestra el modo adecuado de introducir el cartucho. El cartucho puede introducirse en cualquiera de los receptáculos de cartuchos existentes.

Aviso

La introducción del cartucho con la muesca boca arriba dañaría el cartucho y la impresora.

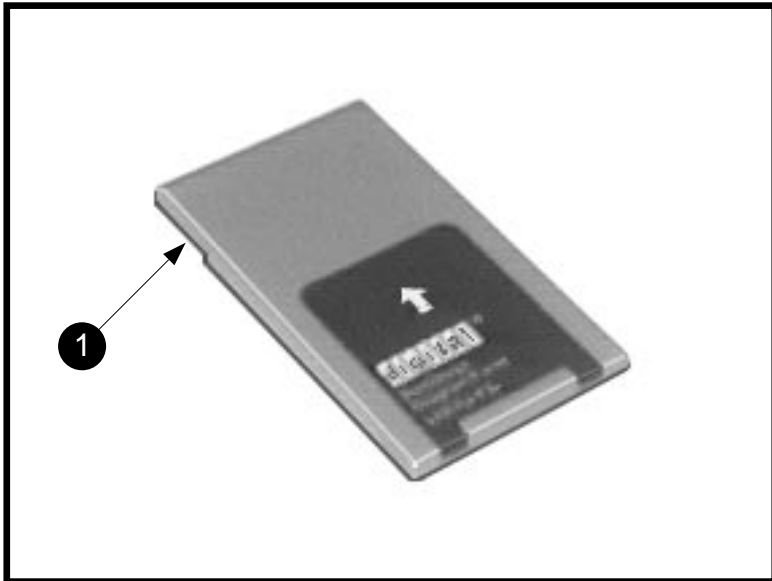
Cartuccia Font opzionale

Questa sezione descrive come installare la cartuccia dei font (tipi di carattere) opzionale.

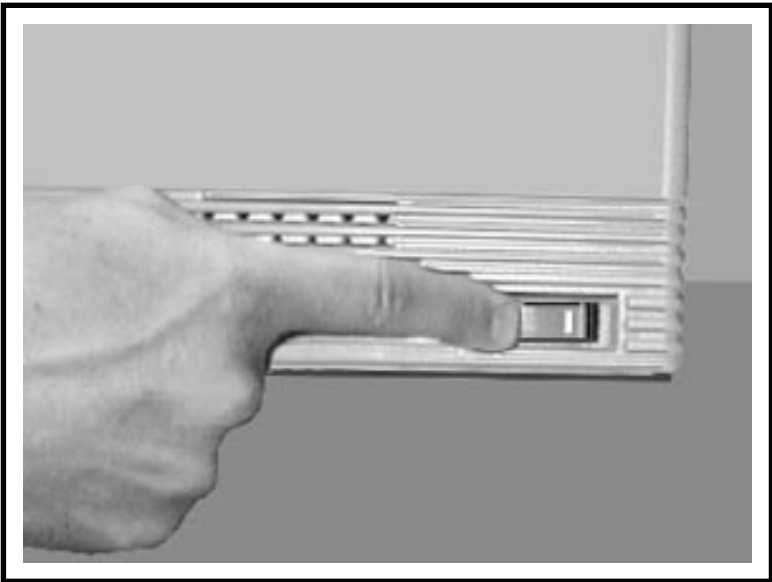
La stampante deve essere spenta (OFF) (0) prima di poter inserire o togliere una cartuccia. La cartuccia dei font deve essere inserita con la tacca rivolta verso il basso. L'illustrazione che segue mostra come inserire correttamente la cartuccia. Essa può essere inserita in uno dei due slot.

Attenzione

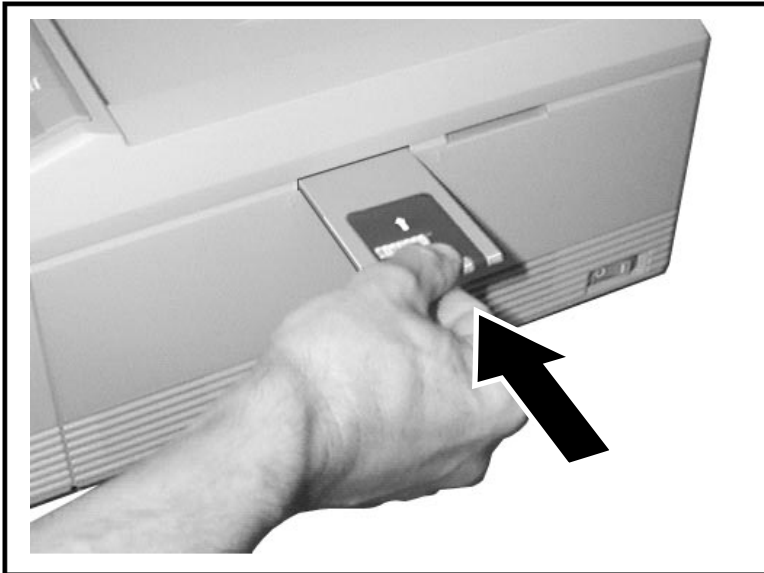
L'inserzione della cartuccia con la tacca rivolta verso l'alto, anziché verso il basso, può causare danni alla cartuccia stessa e alla stampante.



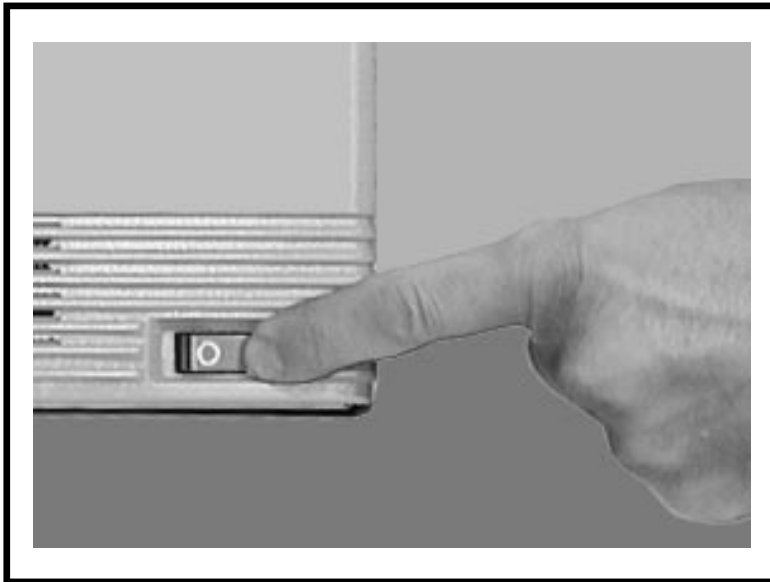
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MLO-00900C



MLO-009019C

To verify the installation:

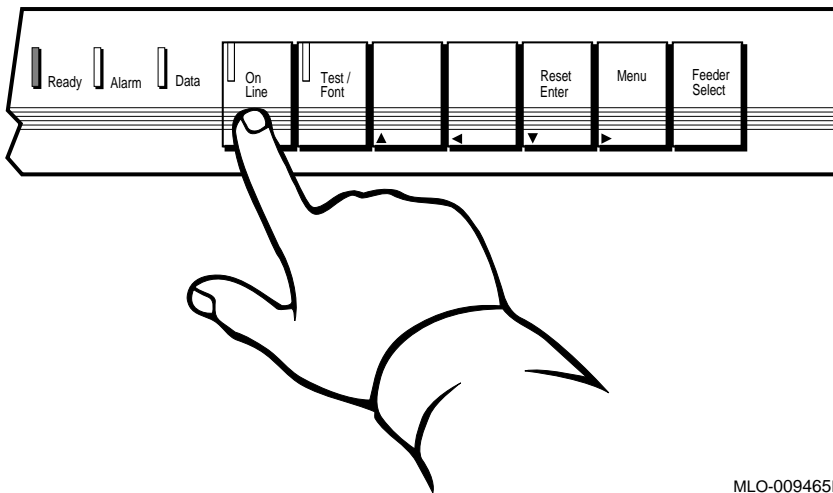
Kontrolle der Installation:

Testen van de installatieprocedure:

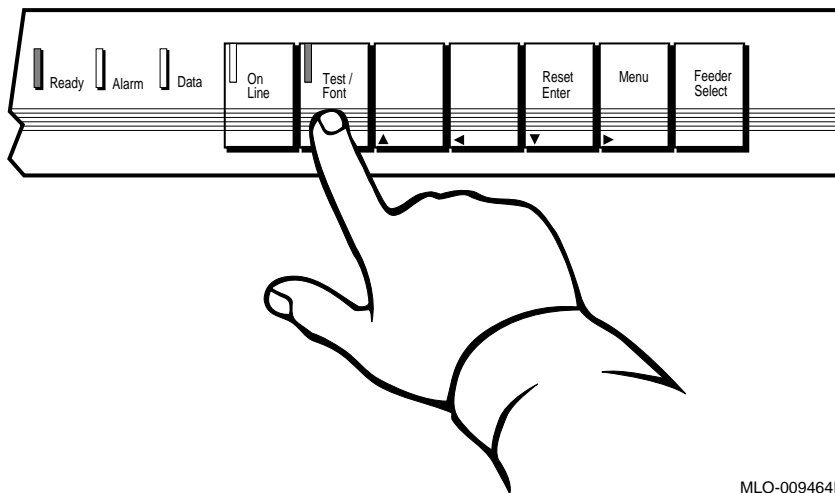
Pour vérifier l'installation:

Para verificar la instalación:

Per verificare l'installazione:



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A summary sheet prints.

Ein Informations- und Testblatt wird gedruckt.

Er wordt een overzicht afgedrukt.

Une feuille récapitulative s'imprime.

Se imprime una hoja de resumen.

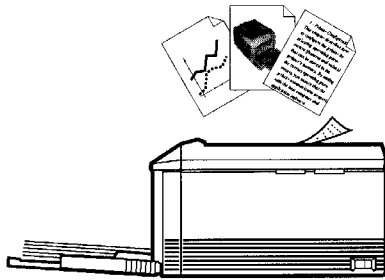
Un modulo riassuntivo delle stampe.

digitalTM

DEClaser 1152

DEClaser 1152

POSTSCRIPT[®] Interpreter Version 2011.110 Revision 5 from Adobe Systems Incorporated



1244 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

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

Cartridge 1:

1

DEC 26 Font Complement



POSTSCRIPT[®]

Software From Adobe

Cartridge 2:

2

Not Installed.

PostScript is a registered trademark of Adobe and the PostScript logo are trademarks of Adobe Systems Incorporated.
*Times and Helvetica are trademarks of Linotype AG and/or its subsidiaries.
The Digital logo is a trademark of Digital Equipment Corporation.

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When the Data light goes off:

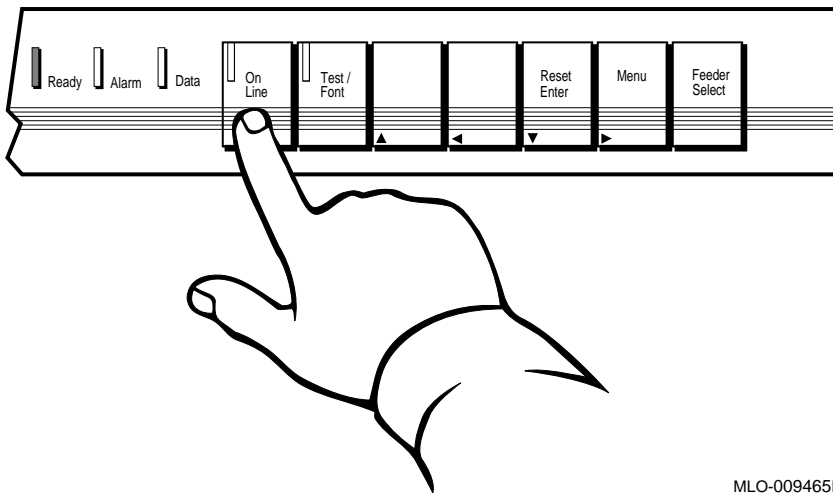
Die Kontrollleuchte "Daten" geht aus:

Wanneer het Data-lampje uitgaat:

Lorsque le voyant lumineux Data s'éteint :

Cuando se apague la luz **Data**:

Quando la spia Dati si spegne:



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If the test print does not print, see the Troubleshooting chapter in the Operator's section of this book.

Falls das Testblatt nicht gedruckt werden kann, schlagen Sie im Kapitel "Fehlersuche und -behebung", im Abschnitt "Bedienungsanleitung" dieses Handbuchs nach.

Als het testvel niet wordt afgedrukt, raadpleegt u het hoofdstuk Fouten opsporen in het Bedieningsgedeelte van deze handleiding.

Si la page de test ne s'imprime pas, reportez-vous au chapitre relatif au dépannage (Troubleshooting) dans la section Operator (Utilisation) de ce manuel.

Si la hoja de prueba no se imprime, véase el capítulo sobre detección de errores de la sección del operador de este manual.

Se la stampa di prova non funziona, riferirsi al capitolo Ricerca guasti nella sezione Operator's di questo manualetto.

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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

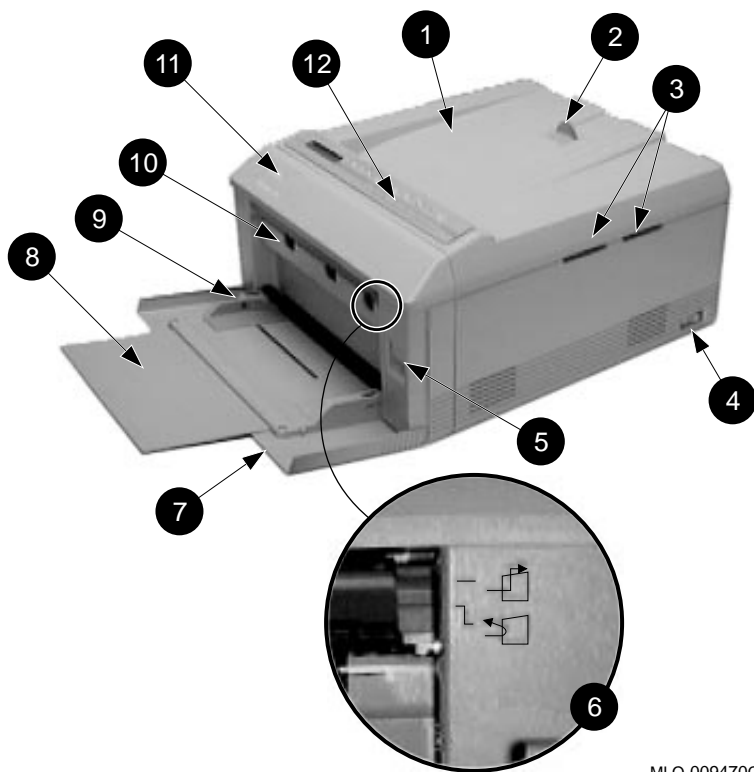
Printer Components

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



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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
④	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.
⑤	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.
⑥	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.
⑦	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.
⑧	Extension tray	The extension tray pulls out to support paper or envelopes.
⑨	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.
⑩	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.
⑪	Front cover	The front cover opens so you can replace the EP-L cartridge, adjust the print density, and access printer components.
⑫	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.

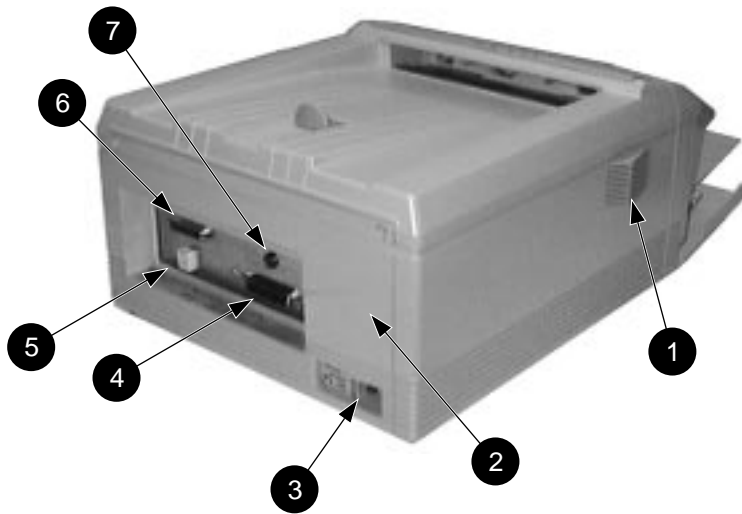
(continued on next page)

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

Item	Component	Function
13	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



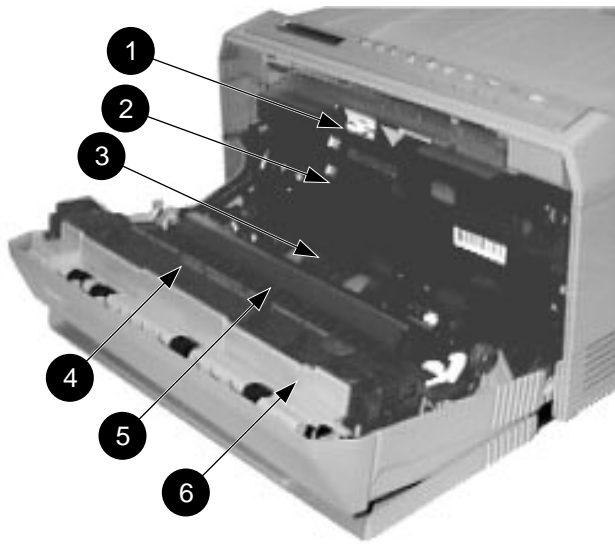
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Table 1–2 Functions of Printer Components: Rear, Left-Side View

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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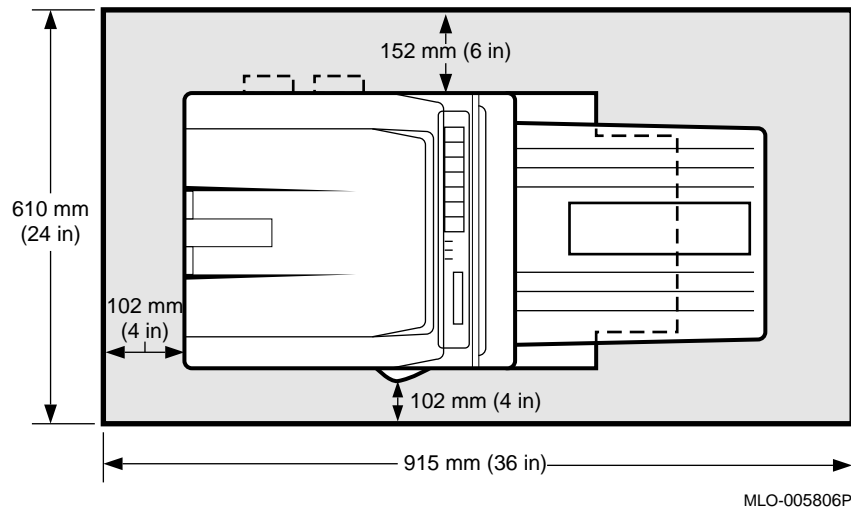
Table 1–3 Printer Components: Inside View

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

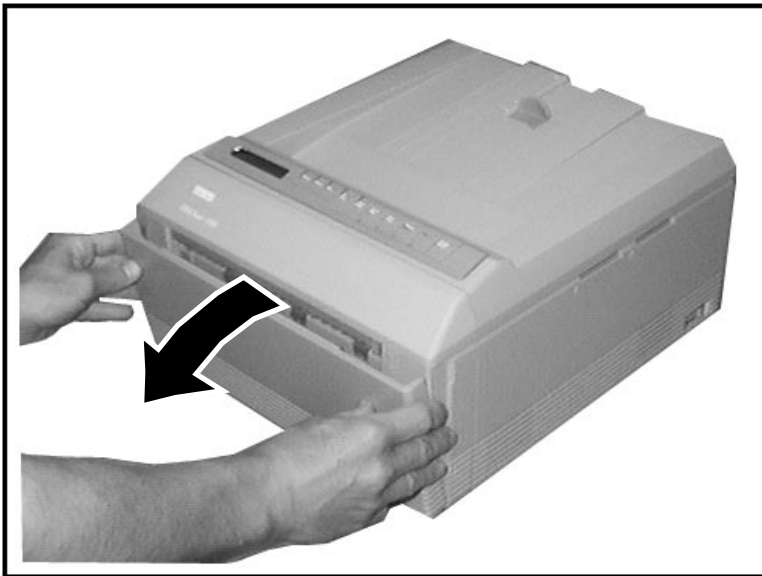
Operating Information

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

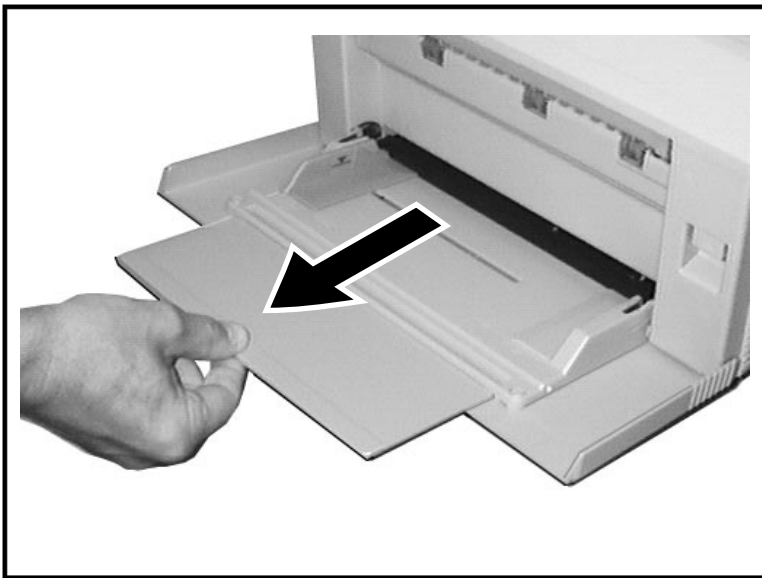
Open the paper tray using the following procedure.

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/m² 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 rewinding 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.

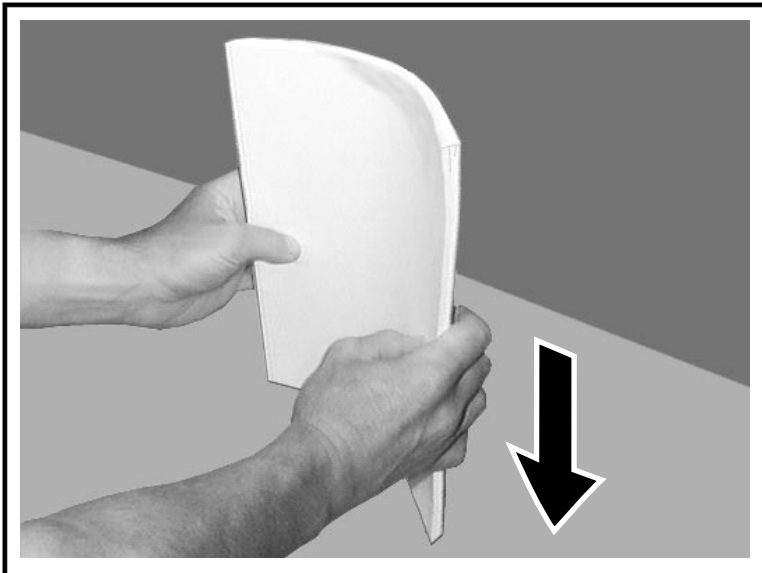
Note

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.

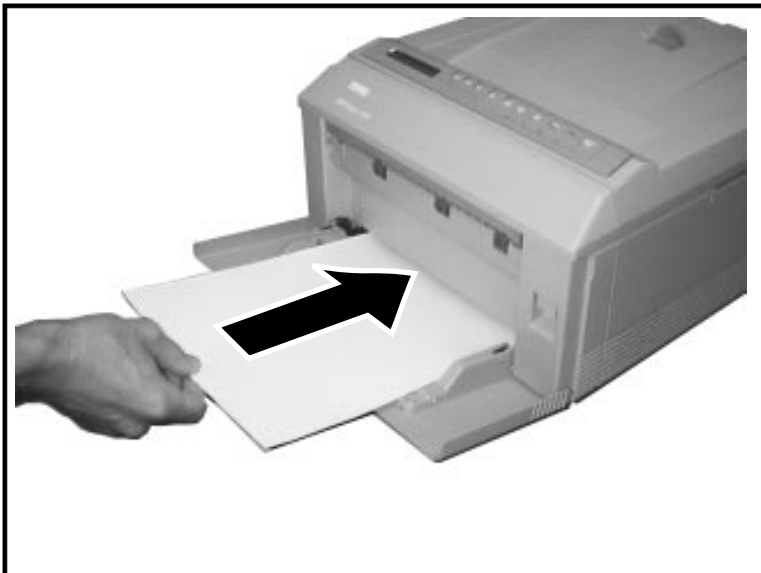


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4. Insert the stack of paper into the tray until it stops.
 - The Alarm indicator goes off (if it was on).
 - **PS READY/IDLE** displays on the control panel.

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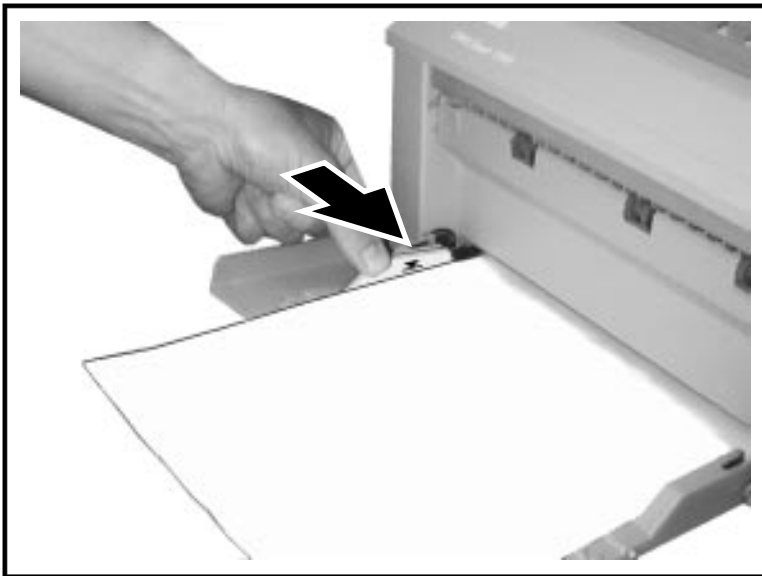
5. Slide the adjustable paper feed guide to the right (if necessary) until it just touches the paper stack.

Notes

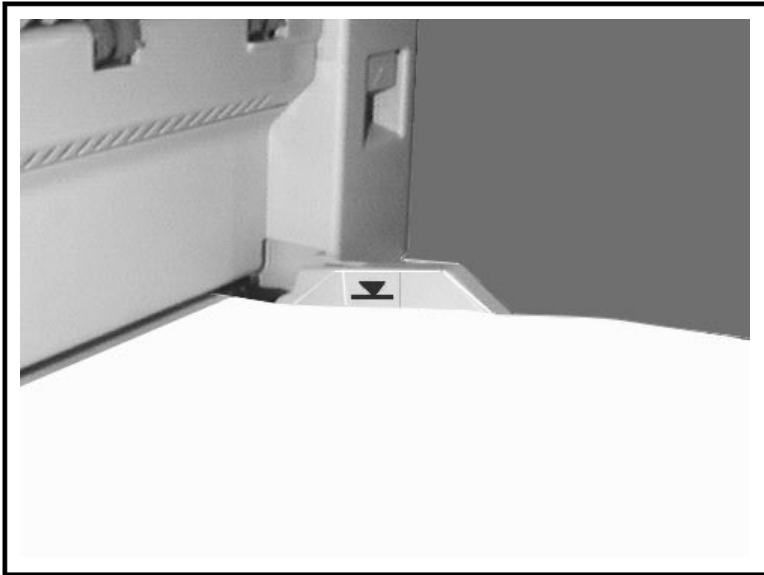
Do not press the adjustable paper guide against the stack of paper so tightly that it restricts movement of the paper into the printer.

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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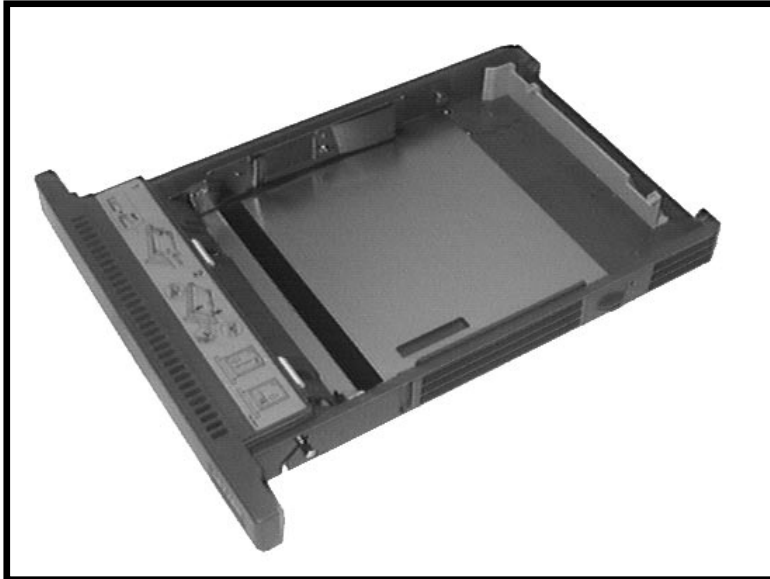


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2.4 Loading the Paper Cassette

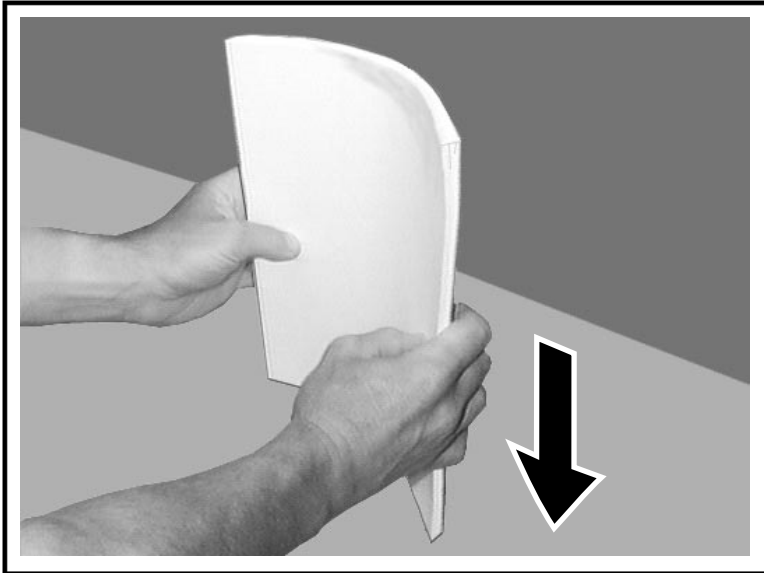
The following instructions apply to the following paper cassettes: A4 size, executive size, and letter size. Refer to Appendix C for instructions on how to load paper into the legal size cassette and the envelope cassette.

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.

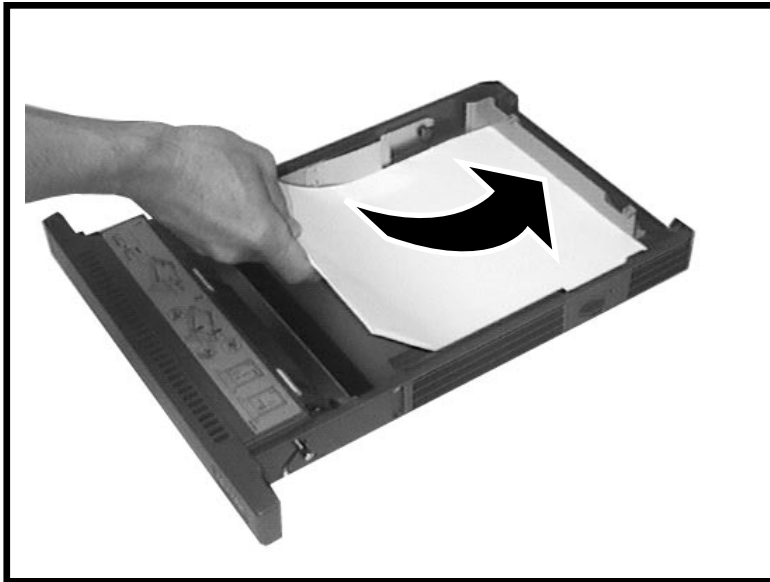


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3. Load paper into the paper cassette by first inserting it into the back of the cassette as shown in the following illustration.

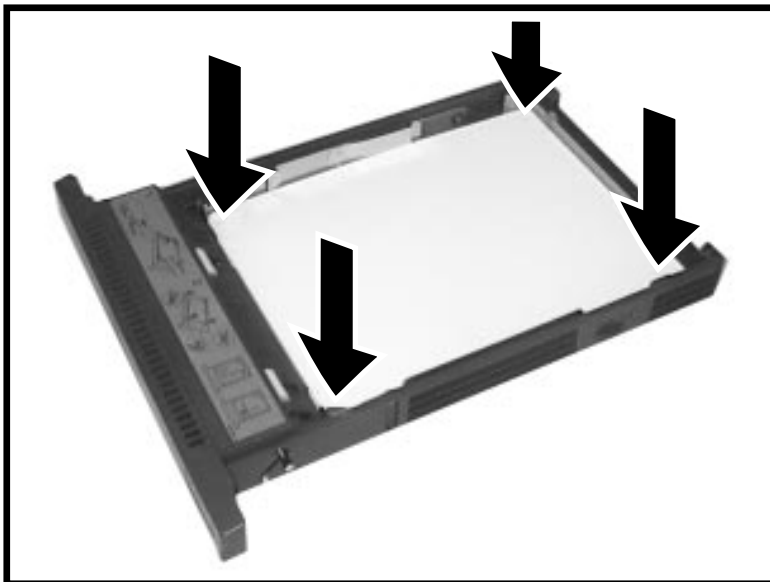
Note

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/m² (20 lb.) paper.



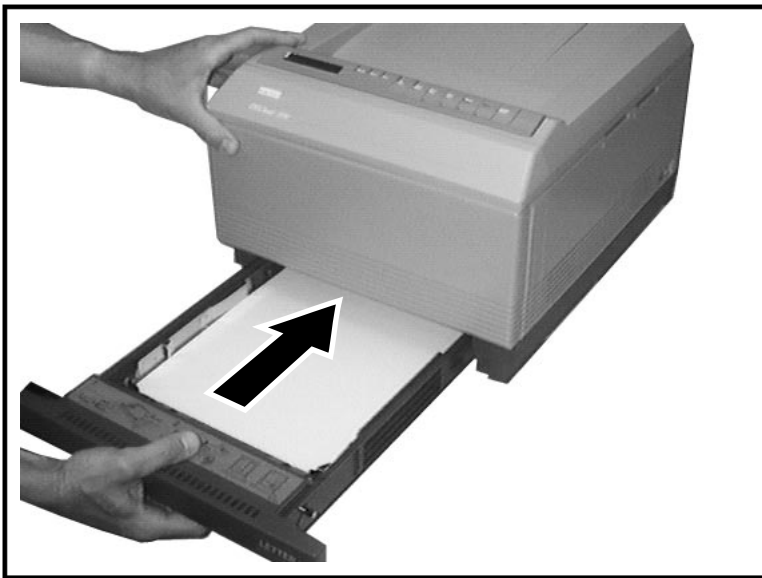
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4. Press down on the four corners of the paper stack to ensure that the paper is flat in the cassette. The paper stack must be beneath the retaining clips at the front and the back of the cassette.



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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:

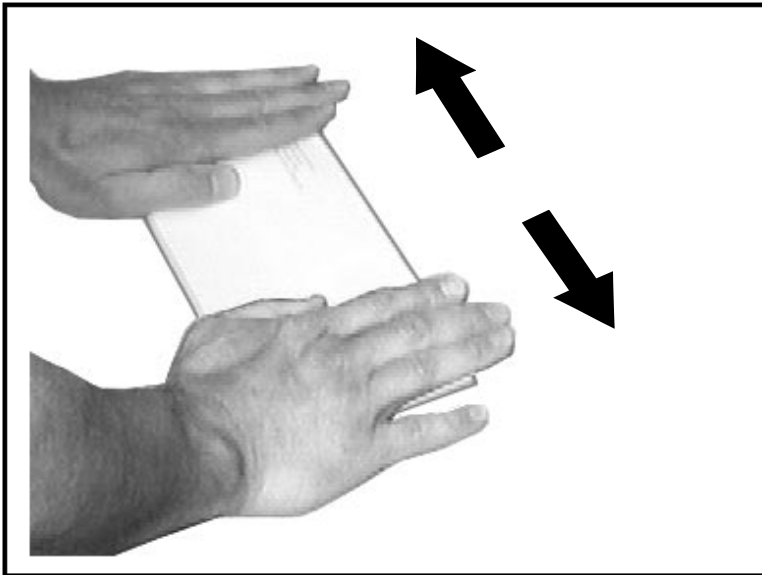
- The sealing flap should run along the length of the envelope, not at the leading or trailing edges.
- The sealing flap should be folded properly, with none of the glue exposed.
- The leading and trailing edges should not be more than two layers thick.
- The envelope should be free of any wrinkles or 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.



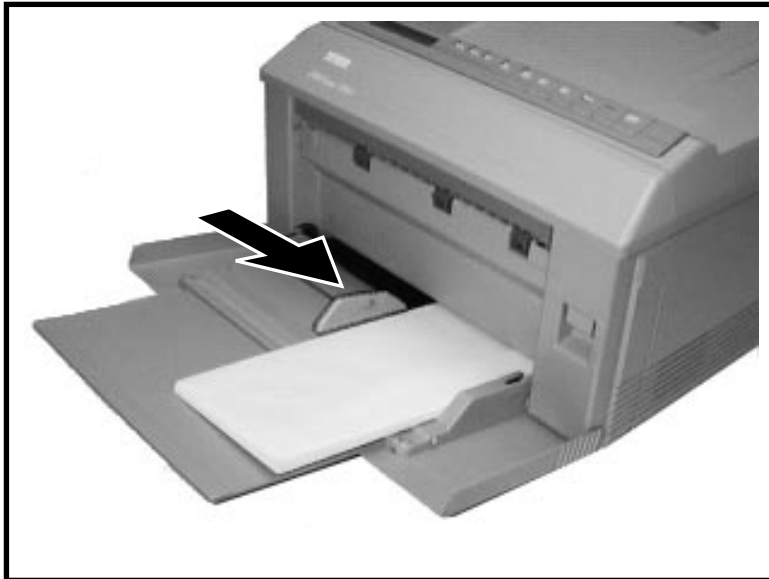
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5. Slide the paper feed guides until they just touch the envelopes.

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.

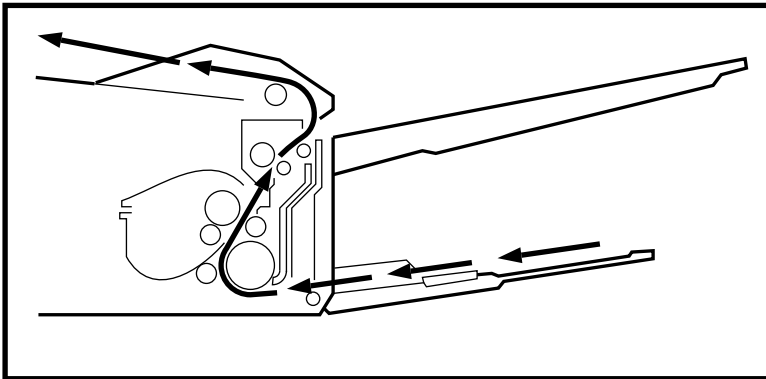


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2.7 Selecting the Output Tray

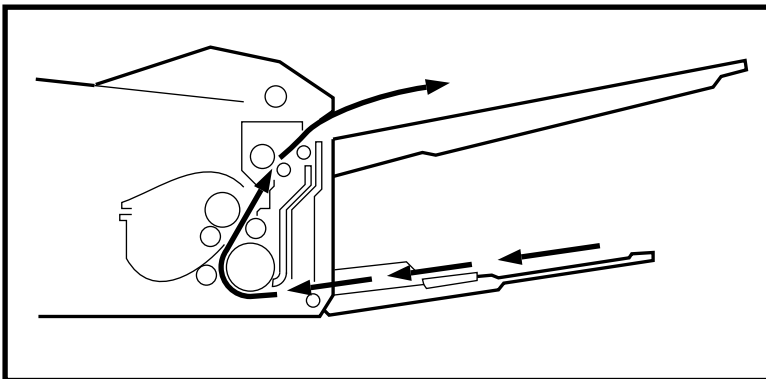
The DEClaser 1152 can deliver printed output either faceup or facedown, as shown in Figure 2-1 and Figure 2-2. Output tray selection is accomplished by setting the output tray selector to the top or front tray position. You cannot select the output paper tray through a command from the host computer;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

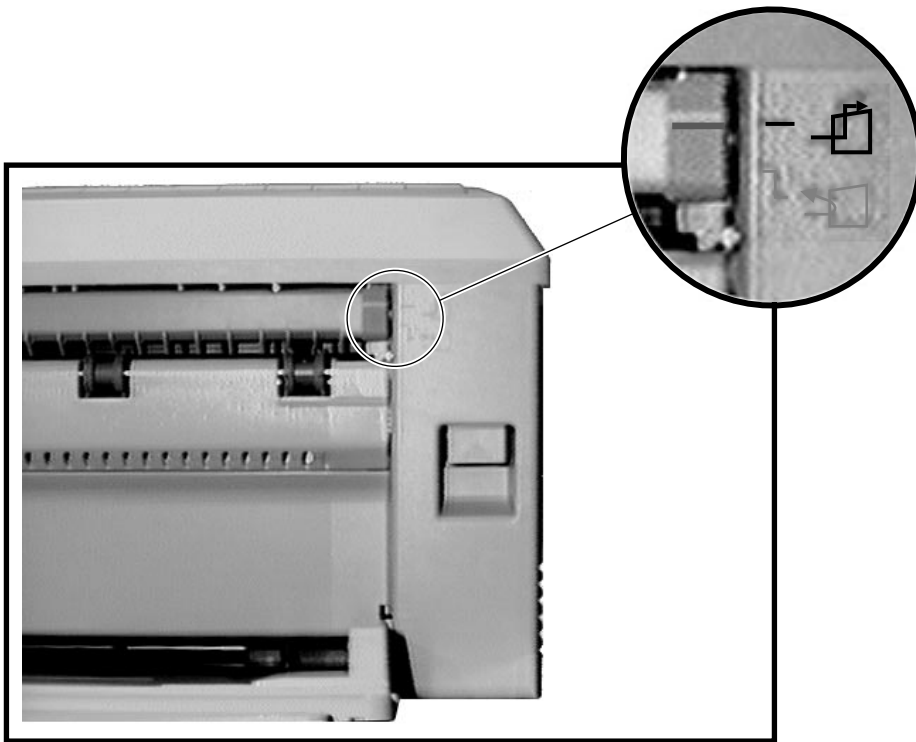
The top output tray can be selected manually when you switch from the front output tray; it is also selected automatically whenever the input paper tray is closed.

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

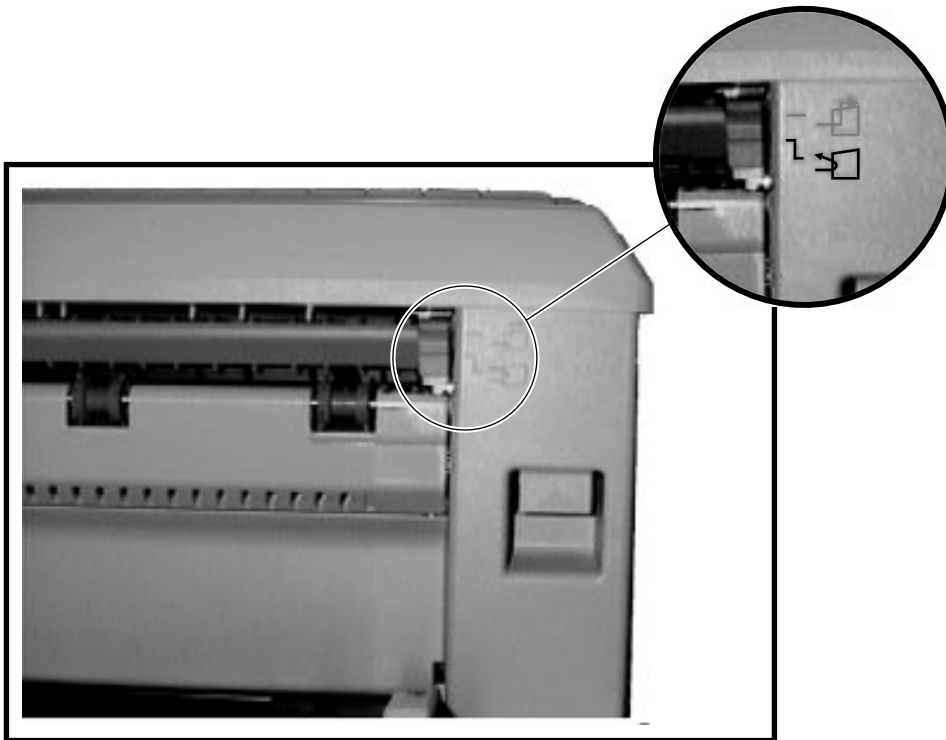
Use the following procedure to select and attach the front output tray.

Note

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

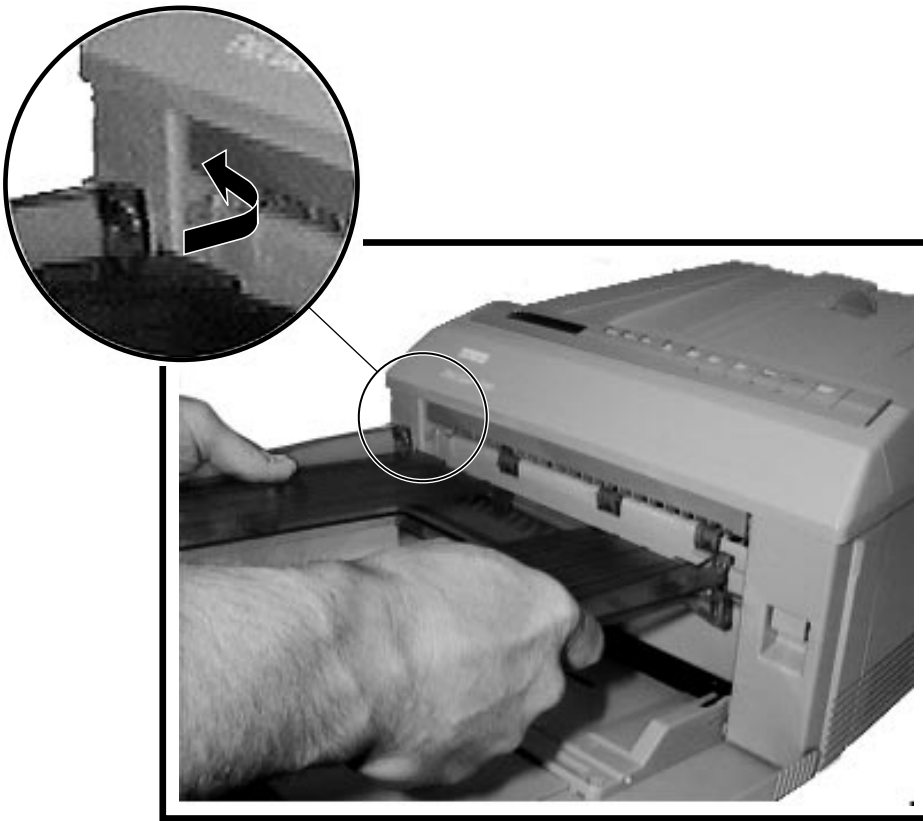
1. Set the output tray selector to the front tray position.

→ 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

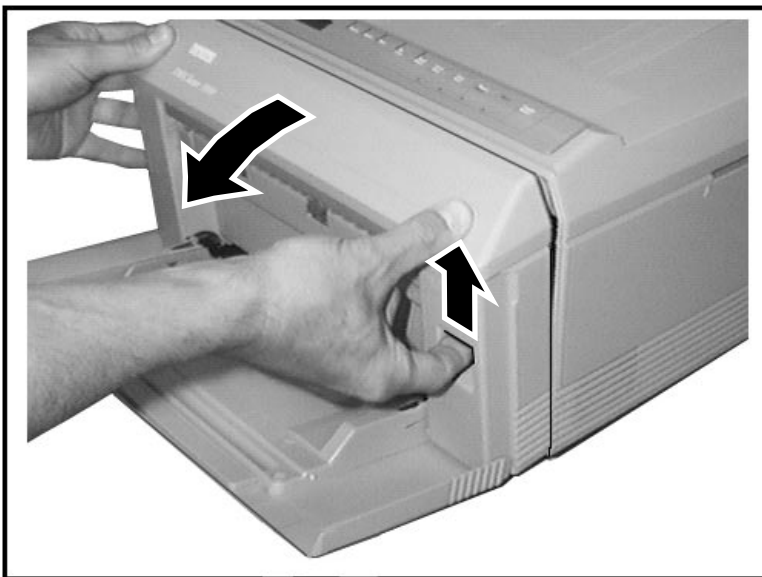
Print density is the amount of toner applied to the paper. The print density adjustment controls the amount of toner applied to the paper to produce a lighter or darker print. You can significantly extend the life of an EP-L cartridge by using the lightest possible print density setting that gives you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



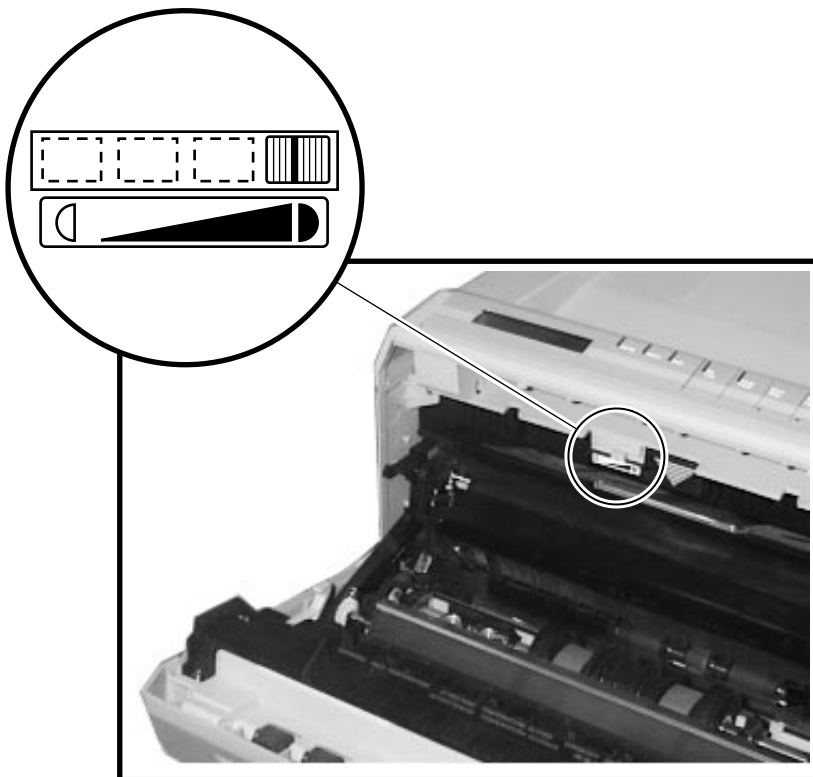
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- Adjust the print density by moving the switch to the right to make the print darker, or to the left to make the print lighter.

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 .
- 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.

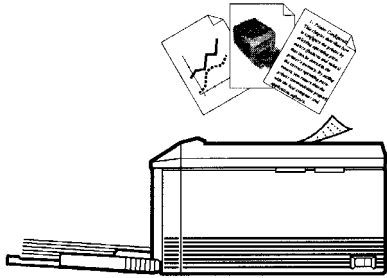
- Test Print prints.
 - **PS OFFLINE** displays on the control panel.
3. Press **On Line**.
 - The On Line indicator lights.
 - **PS READY/IDLE** displays on the control panel.

digitalTM

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

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

Cartridge 1:

1

Not Installed.



Cartridge 2:

2

Not Installed.

PostScript is a registered trademark and Adobe and the PostScript logo are trademarks of Adobe Systems Incorporated.
*Times and Helvetica are trademarks of Linotype AG and/or its subsidiaries.
The Digital logo is a trademark of Digital Equipment Corporation.

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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. <i>Note: The Serial and the Parallel sections list the interpreter as LaserJetIIP. The front panel of the printer shows the interpreter as PCL4.</i>
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

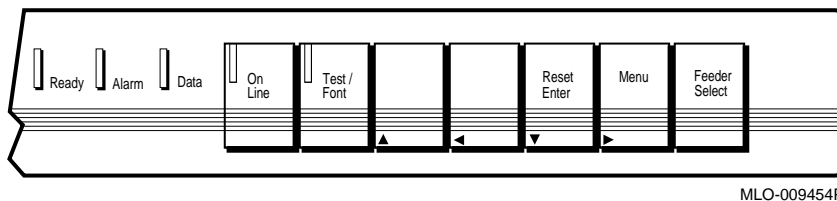


Table 3–1 Control Panel Functions

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	<p>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 >.</p>
	<p>Note All keys and related functions (with the exception of On Line) work only when the printer is off line.</p>
Ready indicator (green)	<p>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.</p>
Alarm indicator (orange)	<p>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.</p>
Data indicator (green)	<p>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.</p>

(continued on next page)

Table 3–1 (Cont.) Control Panel Functions

Item	Function
On line indicator (green)	<p>Works in conjunction with On Line to indicate when the printer is on line or off line (see On Line) in Table 3–2.</p> <p>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.</p> <p>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.</p> <p>Flashing: On Line was pressed while the page was printing. The printer will go off line after the current job is finished.</p>
Test/Font indicator (green)	<p>This indicator is normally off.</p> <p>On: A cleaning page is being printed.</p>

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	<p>Pressing this key alternates the printer between the online mode and offline mode. The mode is indicated by the green light on the key.</p> <p>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.</p> <p>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.</p>
Test/Font	<p>Test/Font performs two functions in Keypad Mode:</p> <ul style="list-style-type: none">– 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	<p>Places the printer in Menu Mode and displays the first menu: INTERFACE. Refer to Section 4.2 for more information about Menu Mode.</p>
Feeder Select	<p>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.</p>

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.

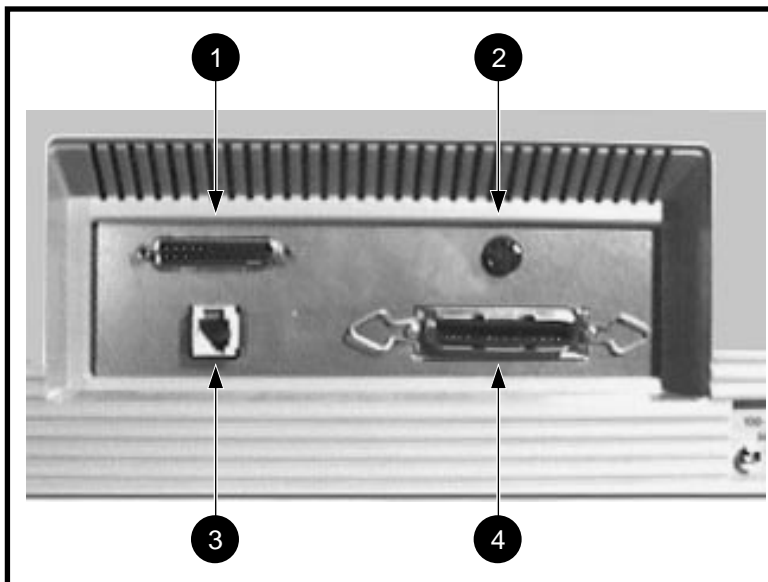
Caution

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: <ul style="list-style-type: none">– Displays the menus and features to the right– Increases numeric values
	Performs two functions: <ul style="list-style-type: none">– 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: <ul style="list-style-type: none">– 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.

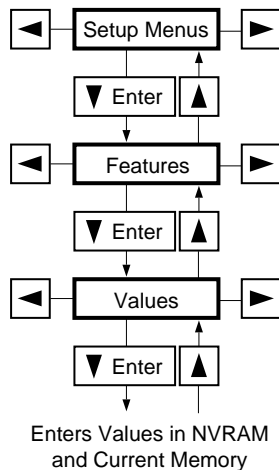
4.4.3 Non-Volatile RandomAccess Memory

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



MLO-005697P

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 <input type="button" value="On Line"/>	The printer goes off line. The On Line indicator shuts off.	PS OFFLINE
2	Press <input type="button" value="Menu"/>	The printer is now in Menu Mode.	INTERFACE
3	Press <input type="button" value="Enter"/>	The Interface Menu is selected.	I/F: SERIAL
4	Press <input type="button" value="Enter"/>		SER: ENABLED
5	Press <input type="button" value="Right Arrow"/> three times.	The Baud Rate Menu is selected.	SER: BAUD RATE
6	Press <input type="button" value="Enter"/>		RATE: 9600 BAUD
7	Press <input type="button" value="Right Arrow"/>		RATE: 19.2K baud
8	Press <input type="button" value="Enter"/>		IS SELECTED . . . (momentarily) then RATE: 19.2K BAUD
9	Press <input type="button" value="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
PAR: INTERPRETER		INT: POSTSCRIPT INT: pcl4

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

²SERIALB 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. <i>Note: It is recommended to not use "binary" unless an Adobe Print Driver is being used.</i> <i>Refer to the Adobe Binary Communications Protocol, Technical Note #5081, (May 4, 1991).</i>
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. <i>Note: The end of text/acknowledge feature is not supported on Digital systems. Use xon/xoff if you have a Digital system.</i>
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	<p>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.</p> <p>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.</p>
Data Bits	8,7	<p>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.</p> <p>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.</p>
Stop Bits	1,2	<p>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.</p>

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. <i>Note: If the selected output device is not enabled, back channel data will be lost.</i>

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.

¹Default 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 11 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.

¹Default 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: helvnrw FONT: helvnrw-O FONT: helvnrw-B FONT: helvnrw-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.

¹Default setting.

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

³This 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 <i>Hewlett-Packard PCLx Technical Reference Manual</i> (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. <i>This line is printed in the italic style.</i>

¹Not 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.

¹Not 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.

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

²To prevent paper jams, use 90 g/m² (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.

²To prevent paper jams, use 90 g/m² (24 lb.) paper when A5 size paper is required.

³The 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.

⁴Default 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.

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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 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.

5

Print Media

This chapter describes the print media that are appropriate for use with the DEClaser 1152 printer: paper, labels, transparencies, and envelopes. The laser printing process differs greatly from that of a conventional impact printer, and this is why paper selection is particularly important. Because toner is bonded to the paper as it passes through the heat and pressure rollers of the fixing unit, the paper must be able to withstand high amounts of heat and pressure.

Caution

When selecting paper or other print media, always print test samples on the paper you want to use. This is particularly important when you are printing on chemically treated or coated paper, such as preprinted forms or colored paper. The inks and pigments used on these papers must also be able to withstand the high heat and pressure of the fixing unit. Be sure to consider the heat limitations of transparencies and the glues used on envelopes and labels. Always select print media according to the instructions and specifications in this chapter. For a complete listing of recommended print media and ordering information, see Appendix A.

Print quality can also deteriorate if paper is not stored properly. Read Section 5.5 for information about storing paper. For additional information about print media, consult the *Digital Laser Printers Guide to Paper and Other Media* (EK-LASER-GD), available from DECdirect.

5.1 Paper Specifications

This section contains information on the sizes and specifications of plain paper that can be used with the DEClaser 1152 printer.

The paper tray can feed paper sizes 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). Table 5-1 lists the paper sizes that can be used with the optional paper cassettes.

Table 5–1 Cassette Feed Paper Sizes

Paper Size	Dimensions
A4	210 mm x 297 mm
Executive	7.25 in. x 10.5 in.
Letter	8.5 in. x 11.0 in.
Legal	8.5 in. x 14.0 in.

5.1.1 Envelope Sizes

The DEClaser 1152 can accept the following envelope sizes:

Table 5–2 Envelope Sizes

Size	Dimensions
Minimum	97 mm x 148 mm (3.8 in. x 5.8 in.)
Maximum	216 mm x 356 mm (8.5 in. x 14.0 in.)

5.1.2 Paper Specifications

Table 5–3 DEClaser 1152 Printer Paper Specifications

Category	Specification
Paper weight: plain paper	60 g/m ² to 105 g/m ² basis weight (16 lb. to 28 lb.)
Paper weight: envelopes	60 g/m ² to 90 g/m ² basis weight (16 lb. to 24 lb.)
Moisture content	5% to 8%
Smoothness	100-300 Sheffield
Brightness	84% minimum recommended
Heat tolerance	150°C (302°F) for 0.1 second
Cotton (rag) content	25% maximum

5.1.3 Special Considerations When Printing on Paper

Because of the way laser printers print and bond toner to the paper, you must observe some special requirements with certain types of papers:

- Do not use preprinted papers that do not meet the specifications for heat tolerance. The ink from some preprinted papers, such as those with a

company letterhead, can cause smearing and in some extreme cases can damage the printer.

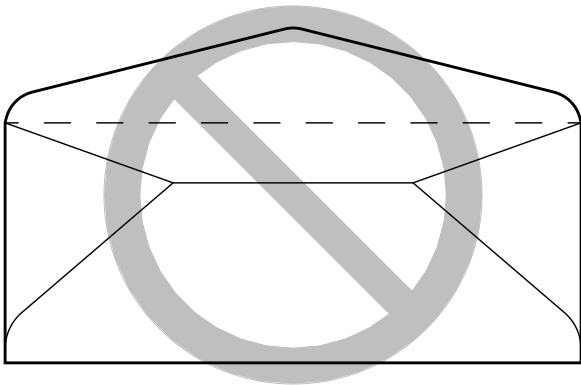
- Do not use colored papers where the color is applied as a coating to the surface.
- Do not use thermal papers.
- Do not use carbon papers.

Appendix A lists acceptable papers.

5.2 Envelope Specifications

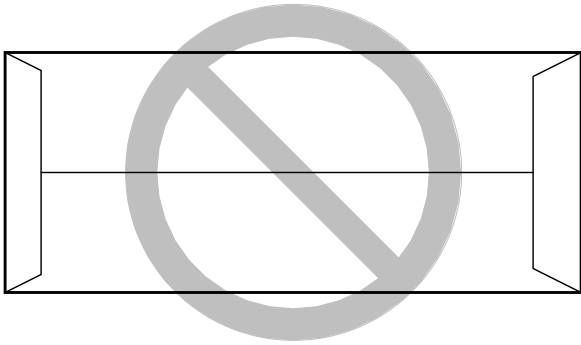
Envelopes must meet the same specifications as paper (see Table 5–3). In addition, the following types of envelopes cannot be used with the printer:

- Envelopes with sealing flaps that are open



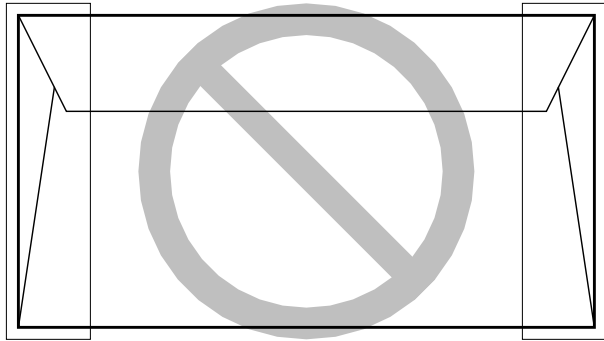
MLO-004859

- Envelopes with sealing flaps at the leading and trailing edges



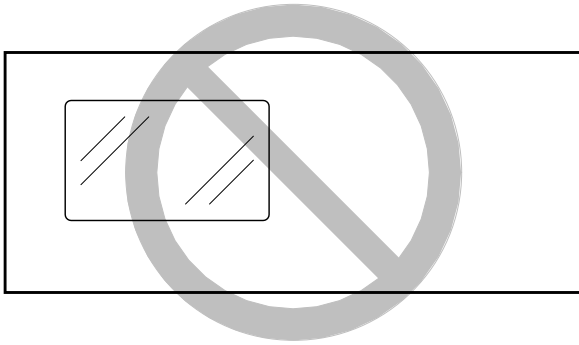
MLO-004860

- Envelopes with three or more layers of paper at the leading and trailing edges



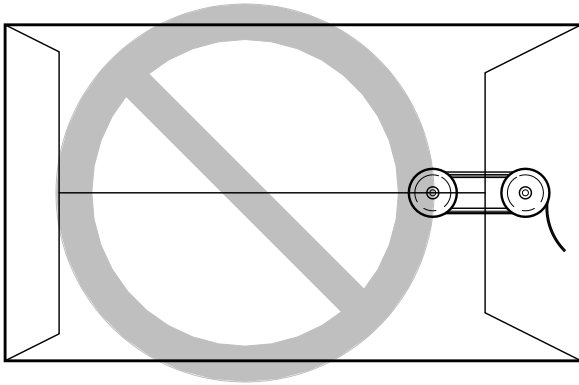
MLO-004861

- Envelopes that have transparent windows



MLO-004862

- Envelopes that have clasps, snaps, or strings



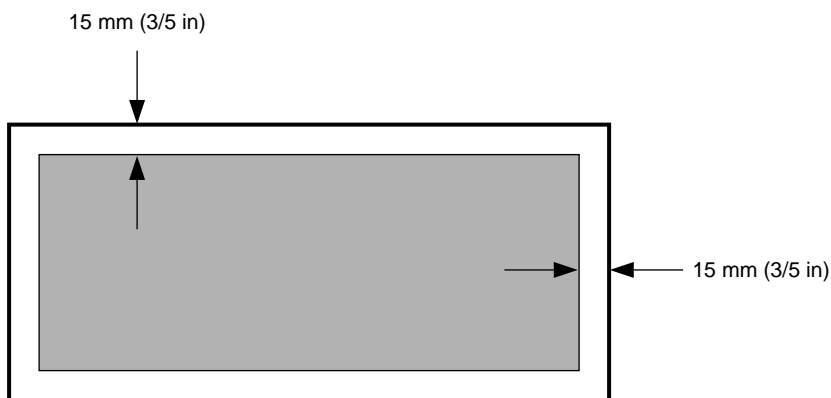
MLO-004863

5.2.1 Special Considerations When Printing on Envelopes

Observe the following requirements when printing on envelopes:

- Do not load more than five envelopes in the paper tray.
- Envelopes can be printed only on the front side.
- Since you need to print addresses in a particular area on envelopes, you must give the printer the proper print coordinates to print the addresses.
See Section 2.6 for more information.
- Use the front output (faceup) tray.
- Printing in the 15 mm (3/5 in.) border around the envelope may cause print quality problems with some types of envelopes. For best print quality, do not print in this border.

Appendix A lists acceptable envelopes.



MLO-005978

5.3 Transparency Specifications

Table 5–4 and Table 5–5 contain information on the sizes and specifications of transparencies that can be used with the DEClaser 1152.

Table 5–4 Transparency Sizes

Size	Dimension
A4	210 mm x 297 mm
Letter	8.5 in. x 11.0 in.

Table 5–5 Transparency Specifications

Category	Specification
Transparency weight: front output tray only	135 g/m ² to 150 g/m ² basis weight (36 lb. to 40 lb.)
Thickness	0.095 mm to 0.115 mm
Heat tolerance	150°C (302°F) for 0.1 second

5.3.1 Special Considerations When Printing on Transparencies

Observe the following requirements when printing on transparencies:

- Transparencies are usually fed from the paper tray. If you are feeding transparencies from a cassette, be sure they are high-quality transparencies and meet the specifications listed in Table 5–5.
- Fan the transparencies before loading them, to prevent jams.
- Use the front output (faceup) tray only.
- Remove transparencies from the output tray, as each one is printed, to prevent them from sticking to each other.

Appendix A lists acceptable transparencies.

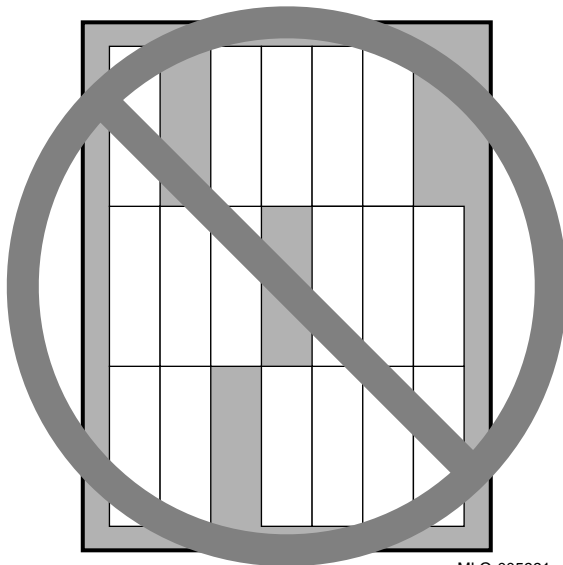
5.4 Label Specifications

A label consists of a face sheet, an adhesive sheet, and a carrier sheet. The face sheet (or printing surface) is usually composed of photocopying paper and should meet the same specifications for paper as described in Paper Specifications. The carrier sheet and adhesive used for the labels must also be able to meet the heat tolerance specification of 150°C (302°F) for at least 0.1 second.

Caution

Exposed adhesive on labels can cause damage to the printer. An easy way to test for adhesive that may be exposed is to press a plain piece of paper on top of the sheet of labels. If the paper sticks to the labels, you should not use those labels.

Figure 5-1 Unacceptable Labels



MLO-005991

5.4.1 Special Considerations When Printing on Labels

Observe the following requirements when printing on labels:

- Labels are usually fed from the paper tray. If you are feeding labels from a cassette, be sure they are high-quality labels that meet the specifications listed in Table 5-3.
- Be sure that the carrier sheet is not exposed.
- Be sure that no adhesive is exposed.
- Use the front output (faceup) tray only.

Appendix A lists acceptable labels.

5.5 Paper Handling and Storage

Although you may be using paper that meets all specifications, improper handling and storage may affect the quality of the paper and the performance of the printer. Improper storage and handling can cause paper jams, misfeeding, and other printer performance problems.

Follow the recommendations in this section on paper storage and handling to reduce the possibility of printer jams and misfeeds.

5.5.1 Paper Handling

Observe the following requirements when handling paper:

- Load paper cassettes to their proper capacity rather than adding small amounts at a time. Loading small amounts of paper can cause jams because of air pockets created between small stacks of paper.
- When you unwrap a new package of paper, discard the top and bottom sheets, as they tend to absorb the most humidity from the surrounding environment.
- Sudden temperature or humidity changes can cause paper curl, leading to misfeeds and paper jams. If you bring paper from a storage location that differs greatly in temperature or humidity, leave the paper (unopened) for a day to allow it to adjust to the printer room environment.
- Check to see that the paper is loaded with the correct side up. Some packages of paper have an arrow on the label that points in the direction of the top side of the paper. Load paper with this top side up.

If there is no arrow on the label, check the paper for curl. If an excessive amount of curl is present, fan the paper in the opposite direction of the curl to remove as much of the curl as possible.

- Follow the instructions in Chapter 2 to properly load the paper.

5.5.2 Paper Storage

Observe the following requirements when storing paper:

- Always store unused paper in its original wrapping. The wrapping protects the paper against humidity.
- Do not store paper directly on the floor, as floors are generally humid.
- Lay paper on a flat surface to prevent in-ream paper curl.

6

Troubleshooting

This chapter helps you to quickly locate most problems that may occur with the printer. It discusses the following topics:

- Printer status messages
- Operator call messages
- Service call messages
- Common operating problems
- Paper jams

Most problems are identified on the message display. The corrective action to take is listed in the appropriate tables, as follows:

- Printer Status Messages, (Table 6-1)
- Operator Call Messages, (Table 6-2)
- Common Operating Problems, (Table 6-3)

6.1 Printer Status Messages

Printer status messages are displayed to show the printer's current operating condition (see Table 6-1). This status information lets you know if the printer is performing a task or is ready to receive another job. Status messages are displayed whether the printer is on line or off line.

Table 6–1 Printer Status Messages

Message	Meaning
PS HOLDING	This is an intermediate message showing the state of the I/O serializer.
PS PROCESSING	The printer is processing data.
PS WAITING	When this message displays during a job, it means the printer is waiting for more data to appear in the I/O buffer.
PS OFFLINE	The printer is in the offline state.
PS RESET TO STOP	This message displays when the PostScript parameter allowjobreset ¹ is set to YES and On Line is pressed when a job is running.
PS WAIT FOR IDLE	This message displays when the PostScript parameter allowjobreset ¹ is not set to YES and On Line is pressed when a job is running.

¹See Job Reset in Section 4.6.5.

6.2 Operator Call Messages

Operator call messages appear if a problem with the printer requires operator intervention, such as adding paper or closing the printer cover. You should check the online/offline status of the printer after correcting a problem; you may have to place the printer back on line by pressing **On Line**. Table 6–2 lists the operator call messages.

Note

The operator call message number flashes when it displays.

Table 6–2 Operator Call Messages

Message	Meaning	Corrective Action
10 CHECK PAPER	Paper is not properly loaded in the cassette.	Reload paper.
11 PAPER OUT	There is no paper in the paper cassette or the front paper tray.	Add paper.

(continued on next page)

Table 6–2 (Cont.) Operator Call Messages

Message	Meaning	Corrective Action
12 PRINTER OPEN	There is no paper cassette installed in the printer, or the cassette is not installed securely.	Install the paper cassette securely.
	The front cover is open.	Close the front cover.
	The fixing assembly cover is open.	Close the fixing assembly cover.
13 PAPER JAM	The EP-L cartridge is not installed.	Install the EP-L cartridge.
	Paper is jammed inside the printer.	Remove the jammed paper.

6.3 Service Call Messages

Service call messages indicate that the printer requires servicing by a qualified Digital Customer Services engineer (see Chapter 7 for service information). Service messages display as **XX SERVICE** (where XX is a number from 50 through 99).

Note

Before calling for service, try to clear the error message by powering the printer off. After a few seconds, power the printer on. If the error message still displays, record the error message to assist service personnel. Power the printer off and call for service.

6.4 Common Operating Problems

Table 6–3 lists common operating problems and their possible solutions. All corrective actions should be followed in the order in which they are listed. Refer to Table 6–3 to understand and possibly solve printer problems before calling for service.

Note

Since many problems with print quality could be caused by a faulty component in the EP-L cartridge, it is recommended that you keep a spare cartridge as a replacement. If you are experiencing a problem with print quality that is not listed in the troubleshooting table, you can

replace the EP-L cartridge to see if it solves the problem before calling for service.

Caution

The rollers in the fixing assembly may be hot. Be careful when checking for problems inside the printer.

Table 6–3 Common Operating Problems

Problem	Possible Cause	Corrective Action
NO POWER		
The printer does not power on when you set the power switch to the ON position.	The power source is defective.	Make sure the power cord is plugged into the wall outlet. Check that there is power at the wall outlet by plugging in a lamp to see if it lights. If the lamp does not light, call your building maintenance services to check the circuit supplying power to that outlet.
	The power cord is not connected or is damaged.	Check the power cord for damage, and secure connections at the printer and at the wall outlet.
NO PRINTOUT		
The message display reads PS OFFLINE.	The printer is in the offline state.	Press <input type="button" value="On Line"/> to place the printer on line.

(continued on next page)

Table 6–3 (Cont.) Common Operating Problems

Problem	Possible Cause	Corrective Action
POOR PRINTING		
Large amounts of vertical fade and/or white streaks are on the page.	Toner is not being dispersed evenly.	Remove the EP-L cartridge from the printer and gently rock it several times to redistribute toner. Replace the EP-L cartridge.
Printing is too light.	The print density setting is incorrect.	Adjust the print density setting.
	The EP-L cartridge is out of toner.	Replace the EP-L cartridge.
Printing is too dark.	The print density setting is incorrect.	Adjust the print density setting.
The page printed blank.	The toner seal was not completely removed from the EP-L cartridge.	Remove the toner seal from the EP-L cartridge completely.
	The EP-L cartridge is faulty.	Replace the EP-L cartridge.
The page printed black.	The EP-L cartridge is not installed properly.	Remove and reinstall the EP-L cartridge.
	The EP-L cartridge is faulty.	Replace the EP-L cartridge.
Stray toner is fused to the paper.	The fixing assembly is dirty.	Clean the fixing assembly.
	The cleaning mechanism in the EP-L cartridge is not working properly.	Replace the EP-L cartridge.
The overall print quality is poor.	The print medium is not the recommended type.	See Chapter 5 for print media specifications.

(continued on next page)

Table 6–3 (Cont.) Common Operating Problems

Problem	Possible Cause	Corrective Action
MISCELLANEOUS		
A paper jam occurred.	There is an obstruction in the paper path.	Clear the paper jam.
The print is skewed.	The print medium is not the recommended type.	See Chapter 5 for print media specifications.
	Paper is not loaded in the paper tray properly.	Reload paper in the paper tray.
Envelopes are fogged lightly with toner.	The print density setting is too light.	Increase the print density setting.
Printout problems	The communication parameters are not setup properly.	Check that the communication parameters of the printer match the communication parameters of the host device.
	The appropriate printer driver is not selected.	For a PostScript job, the printer driver is PostScript. For a PCL4 job, the printer driver is HP LaserJetIIP.
	The printer does not have enough memory.	Add the additional 2 MB memory option to the printer. The DEClaser 1152 is a low-cost Level 2 Postscript printer. Because memory is a significant part of a printer's cost, only as much memory as required by typical applications has been included (2 MB). Certain applications may require additional memory. An additional 2 MB of memory is available for the DEClaser 1152 printer from Digital. Order LN07X-UF.

6.5 Paper Jams

Paper jams are typically caused by:

- Damaged paper (torn or folded)
- Improperly stored paper (excessive paper curl or humidity)
- Paper that does not meet specifications (incorrect weight or heat tolerance)
- Paper that is improperly loaded in the tray (not aligned properly)

To reduce the chance of paper jams, you should follow the instructions for proper paper selection, storage, and loading as outlined in Chapter 5. To ensure that you are loading paper in the tray properly, see Section 2.2 for the correct procedure.

The following occurs when there is a paper jam in the printer:

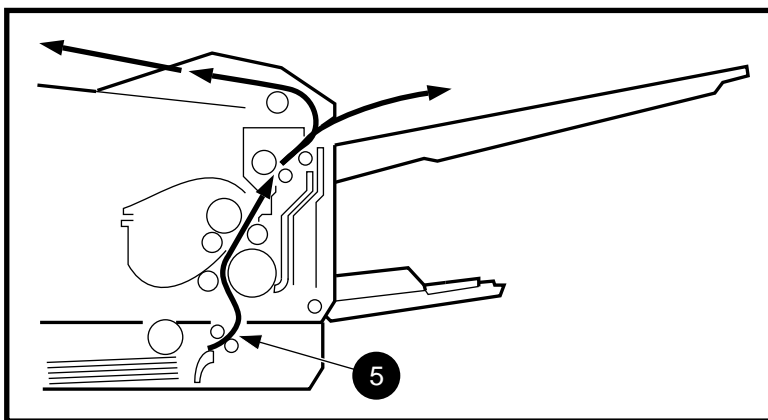
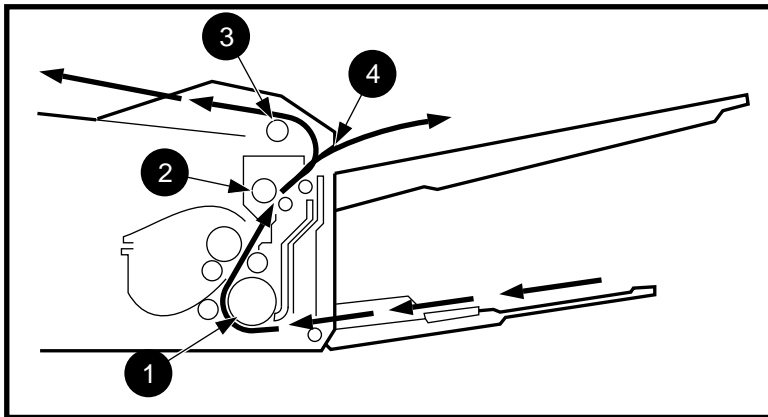
- The printer stops printing.
- The error message **13 PAPER JAM** appears on the control panel.
- The Alarm indicator lights.

Most paper jams occur in the areas shown in Figure 6-1. Table 6-4 describes these paper jam areas.

Table 6–4 Paper Jam Locations

❶ Paper pick-up	❸ Front output tray	❺ Paper pick-up in optional paper cassette
❷ Fixing assembly	❹ Top output tray	

Figure 6–1 Paper Jam Areas



MLO-005979P

After clearing a paper jam, reset the printer by closing the front cover. Closing the cover clears the error condition. When a paper jam is cleared and printing is resumed, the DEClaser 1152 printer automatically reprints the page that jammed if jam recovery is enabled.

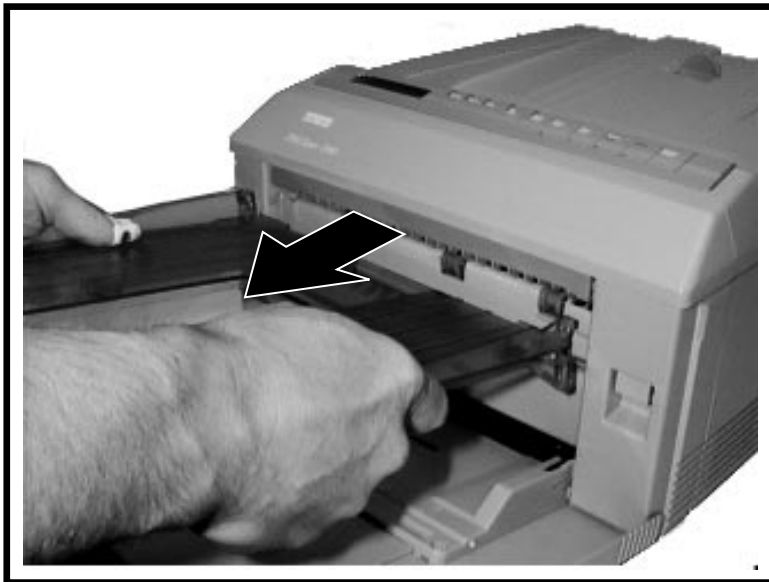
6.6 Clearing Printer Paper Jams

Use the following procedures to clear all types of paper jams from the printer.

Warning

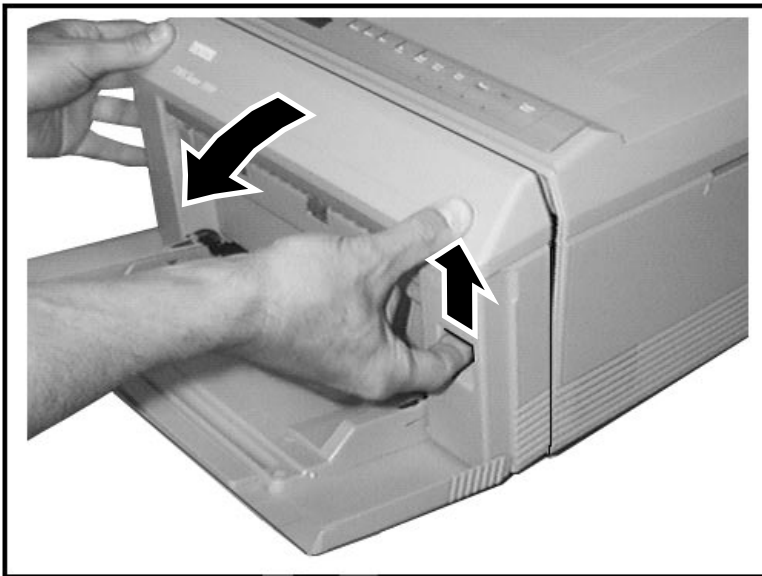
The rollers in the fixing assembly may be hot. Be careful when accessing this area.

1. Remove the front output tray (if it is installed) by squeezing it slightly to release its pegs from the printer slots.



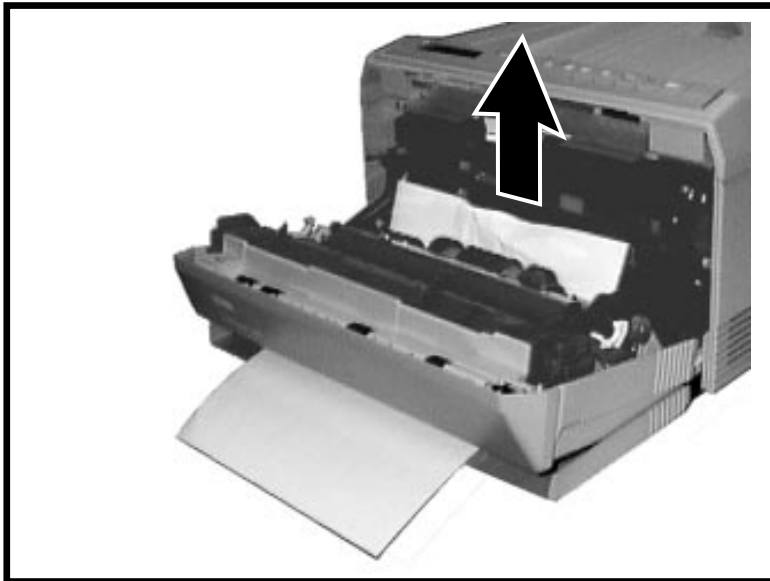
MLO-009479C

2. Remove any paper remaining in the paper tray and close the extension tray.
3. Press the front cover release button up and open the front cover.
 - The Alarm indicator lights.
 - The printer goes off line.
 - **12 COVER OPEN** displays on the control panel.



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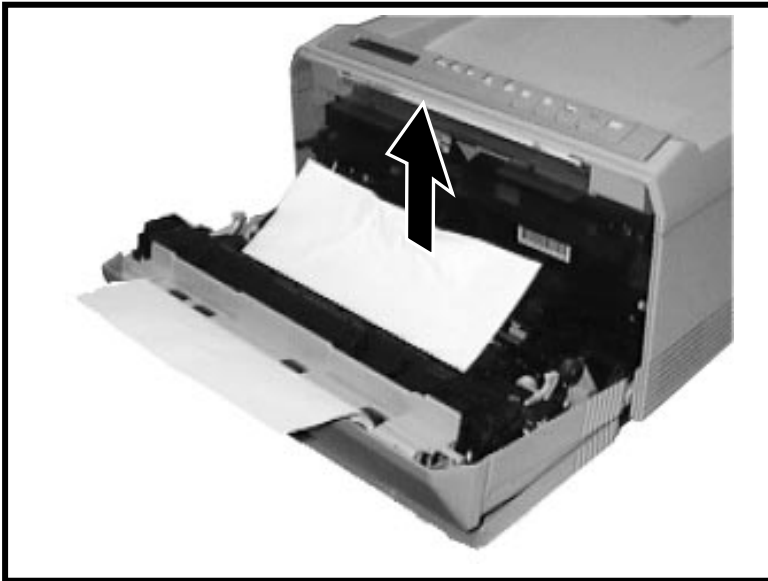
4. Remove any jammed paper from the pickup area by pulling the paper out in the direction of the arrow.
 - If all jammed paper has been cleared, go to step 8.
 - If there was no paper jammed in the pickup area, go to step 7.



ML0-009480C

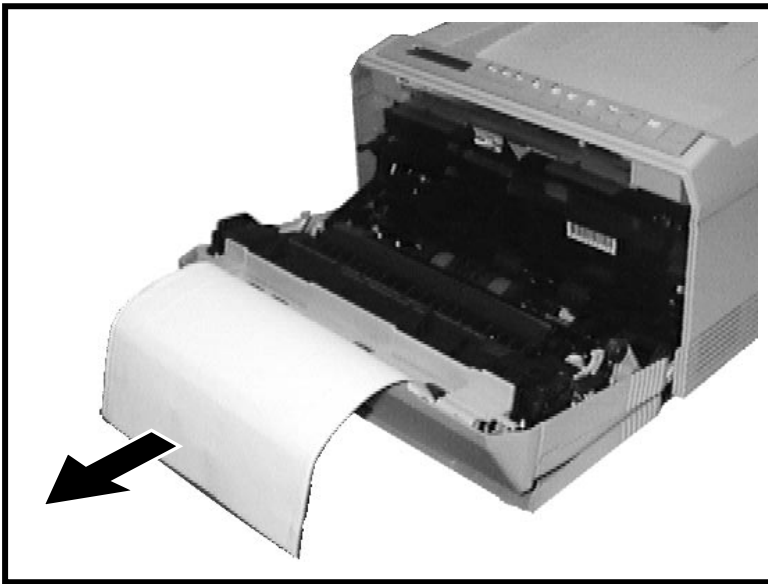
5. Remove any jammed paper from the fixing assembly by pulling the paper out in the direction of the arrow.
 - If all jammed paper has been cleared, go to step 8.
 - If there was no paper jammed in the fixing assembly, continue with the next step.

Figure 6–2 Paper Has Exited the Fixing Assembly



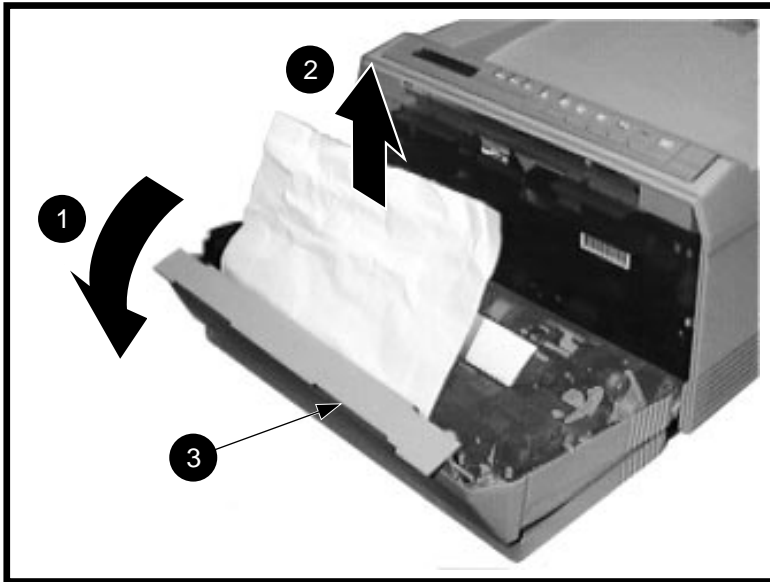
MLO-009481C

Figure 6-3 Paper Has NOT Exited the Fixing Assembly



MLO-009492C

6. Open the paper access cover **1**. Remove any jammed paper by pulling it straight up **2**.
→ Close the paper access cover **3**.

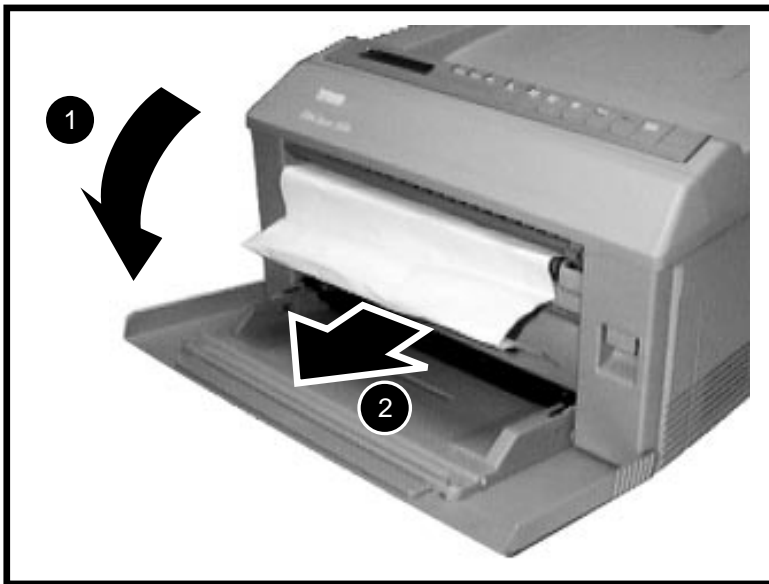


MLO-009483C

7. Open the fixing assembly access cover ❶ and remove any remaining pieces of paper that may be caught in the fixing assembly ❷.

Warning

The rollers in the fixing assembly may be hot. Be careful when accessing this area.



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8. Close the front cover.

- The printer initializes (recycles).
- The Alarm and Data indicators shut off.
- **PS READY/IDLE** displays on the control panel.



MLO-008991C

9. Reload paper.

- The jammed page is reprinted if the RECOVER JAM parameter is set to yes. The RECOVER JAM parameter is in the Miscellaneous menu.

6.7 Clearing Cassette Paper Jams

Use the following procedure to clear jammed paper from the paper cassette.

1. Pull out the paper cassette and remove the jammed paper.

Notes

Be sure to remove all the paper from the cassette and reload the cassette.

Be sure there are no damaged sheets reloaded into the cassette.

7

Maintenance

To obtain optimum performance from the DEClaser 1152 printer, you must perform the prescribed care and maintenance as outlined in this chapter. This chapter describes how to properly maintain the printer and covers the following topics:

- Extending EP-L cartridge life (Section 7.1)
- Replacing the EP-L cartridge (Section 7.2)
- Cleaning the fixing assembly (Section 7.3)
- Cleaning the printer (Section 7.4)

7.1 Extending EP-L Cartridge Life

Each EP-L cartridge contains a photosensitive drum, cleaning mechanism, charging roller, and toner, assuring you of optimum print quality throughout the life of the cartridge. When the cartridge runs out of toner, simply replace it with a new one.

A new EP-L cartridge lasts for approximately 3,300 pages (A4 or letter size) of typical word processing text at 4% coverage with the default print density setting. However, the cartridge life will vary depending on the amount of toner used for your particular application and the print density setting. If your average page contains more "white space" than the typical 4% coverage, the cartridge life will be longer. A lighter density setting reduces the amount of toner used. You can significantly extend the life of an EP-L cartridge by adjusting the print density to the lightest setting that gives you acceptable print quality. See Section 2.8 for information about setting the print density.

The following rules apply to cartridge care:

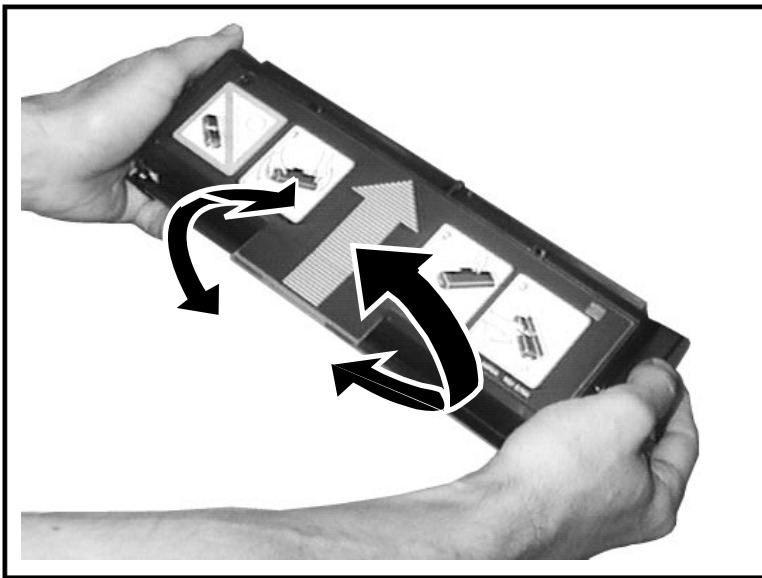
- For best print quality, always use the EP-L cartridge before the expiration date printed on the box.
- Do not remove the cartridge from its bag until you are ready to use it.

- Store the cartridge in an area where the average temperature is 0° to 35°C (32° to 95°F).
- Do not leave the cartridge exposed to direct sunlight.
- Do not stand the cartridge on its end or lay it upside down.
- Do not attempt to disassemble the cartridge or open the light blocking shutters. Exposing the cartridge to light can result in poor print quality.
- Do not open the drum protection shutter. Touching the photosensitive drum will damage it and cause problems with print quality.
- Keep the cartridge away from cathode ray tubes (CRTs), disk drives, and floppy disks. The magnet in the cartridge may affect the operation of these devices.

7.2 Replacing the EP-L Cartridge

When the print quality becomes uneven, or printing is too light, it means that the printer is either running out of toner, or the toner is not being distributed evenly. Before replacing the EP-L cartridge, make sure that the toner is really depleted. Rock the cartridge back and forth gently to redistribute any remaining toner as shown in Figure 7-1.

Figure 7-1 Rocking the EP-L Cartridge



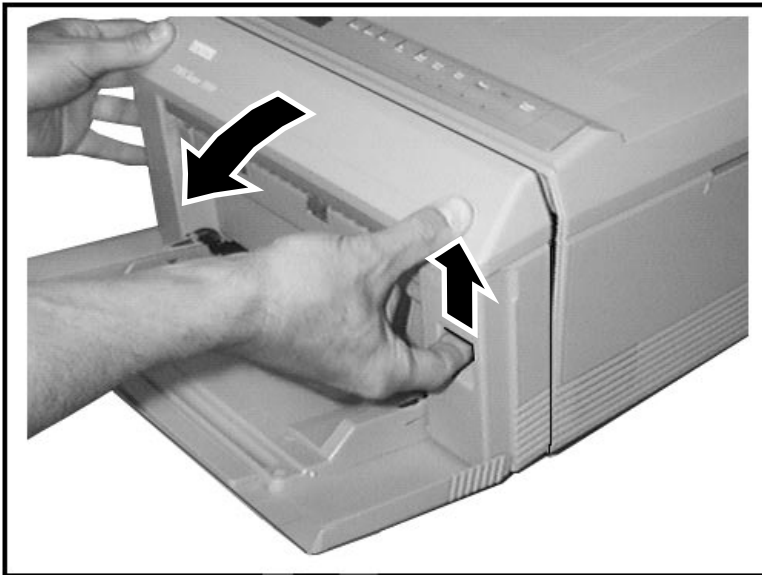
MLO-008988C

Reinstall the cartridge in the printer and try printing. If the print quality is acceptable, the cartridge will last for a while longer. If the print quality is not acceptable, you need to replace the cartridge.

To replace the cartridge, follow the instructions on the cartridge box or use the following procedure.

1. Be sure the printer is not printing and **PS OFFLINE** displays on the control panel.

2. Lift up the release button to open the front cover.



MLO-008985C

- The Alarm indicator lights.
- The printer goes off line.
- **12 PRINTER OPEN** displays on the control panel.

→ Remove the old cartridge from the printer by pulling it out by its tab.

Note

If the cartridge is difficult to remove, push in the green lever on the right side of the printer to disengage the cartridge, and then remove it.

→ Discard or return the cartridge for recycling if a recycling program exists.

3. Remove the new cartridge from its package and rock it from end to end five or six times to distribute the toner evenly.

Note

Do not shake the cartridge vigorously.

4. Remove the sealing tape by holding the cartridge on a flat, stable surface, and gently pulling the orange tab straight out of the cartridge.

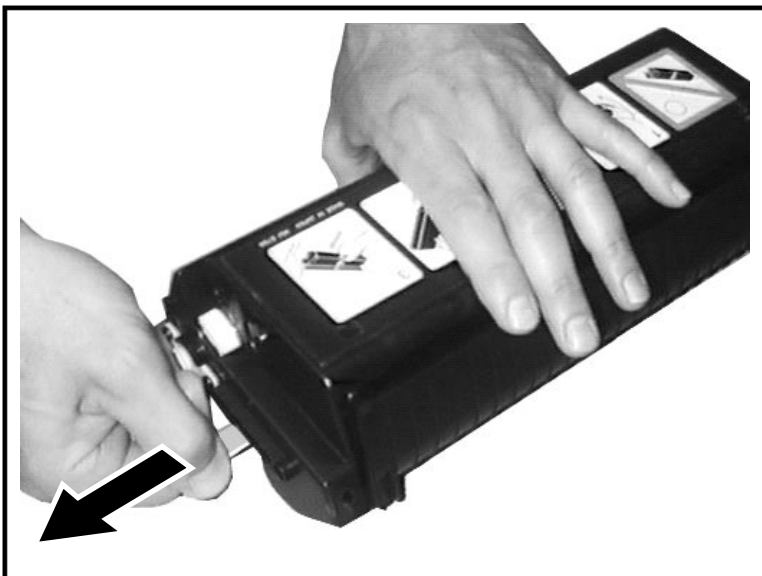
Caution

Pulling the tab at an angle can snap or cut the tape.

Note

The sealing tape is about 457 mm (18 in.) long and may have toner on it. If you get toner on your hands or clothing, wash them with cold water and soap.

→ Discard the sealing tape.



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5. Insert the cartridge by aligning the arrow on the cartridge with the “V” mark on the printer, and gently pushing in the cartridge until it stops.



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6. Close the front cover.

The control panel displays:

PS INITIALIZING (momentarily)

PS READY/IDLE

Note

If the cartridge is not pushed in completely, the front cover will not close.



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7. Go to Section 7.3 and perform the fixing assembly cleaning procedure.

7.3 Cleaning the Fixing Assembly

Cleaning the fixing assembly removes the excessive toner from the heat and pressure rollers. You should clean the fixing assembly each time you replace the EP-L cartridge, and when you notice stray toner or smudges being fused to the paper. By keeping the fixing assembly clean, you reduce the chance of paper jamming in that area.

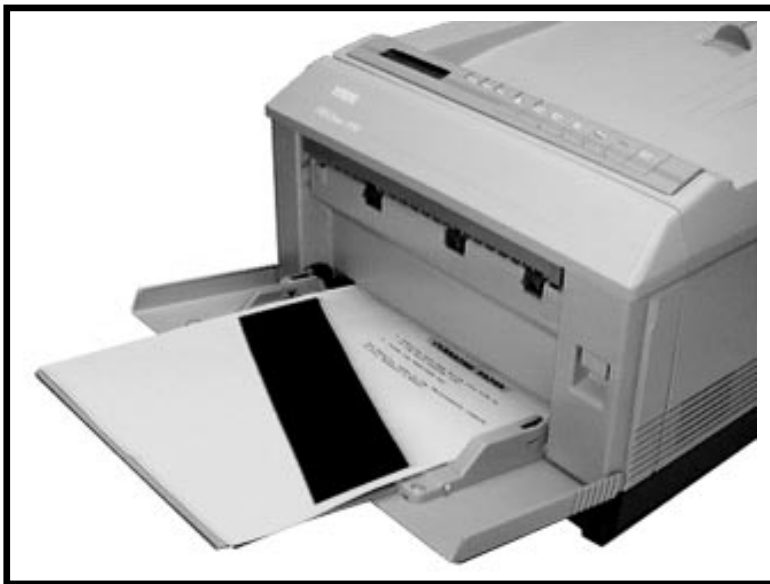
The cleaning procedure uses a special cleaning paper generated by the printer.

Note

Always use plain white paper to generate the cleaning paper. It can be A4 size, letter size, or legal size paper.

Use the following procedure to clean the fixing assembly.

1. Be sure the printer is not printing and the display reads **PS READY/IDLE**.
2. Press **On Line**.
 - The On Line indicator shuts off.
 - **PS OFFLINE** displays on the control panel.
3. Press and hold down **Test/Font** until the display reads **CLEANING PAPER** and the LED lights on the Test/Font Button.
 - The cleaning paper prints.
4. Insert the printed cleaning paper into the paper tray with the printed side facing up.



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5. Press **Test/Font** to run the cleaning paper through the printer.
 - The cleaning paper exits to the output tray, indicating that the fixing assembly is clean.
6. Press **On Line**.
 - The On Line indicator lights.
 - **PS READY/IDLE** displays on the control panel.

→ Discard the cleaning paper.

7.4 Cleaning the Printer

If the external surfaces of the printer become dirty, clean them using a clean, water-dampened cloth.

Caution

To prevent possible damage to the external surfaces of the printer, do not use cleaners or solvents.

8

Service

If you cannot correct a problem with the DEClaser 1152 printer, request servicing by a qualified Digital Customer Services engineer. This chapter lists the available services.

8.1 Digital Equipment Corporation Services

Digital Equipment Corporation provides a wide range of maintenance programs for printers. These include on-site, carry-in, and mail-in maintenance services. You can use these programs to select a plan that meets your service needs, from complete Digital support to self-maintenance.

Digital offers fast, low-cost, quality maintenance performed at your site by trained service specialists. Whether you select the DECservice or Basic Service agreements, or choose the Time and Materials service, your printer will receive the best possible maintenance.

There are more than 150 Digital carry-in service centers in major cities around the world. These service centers offer convenient, fast, and dependable maintenance at a savings over on-site service.

If you prefer self-maintenance, you can mail in your field replaceable unit (FRU) for repair through our fast-turnaround DECmailer repair service.

For more information on any of Digital Equipment Corporation's maintenance services, call the Digital Customer Services office in your area during normal business hours.

Refer to the list of questions in Table 8-1 before calling the service center.

Table 8–1 Questions to Consider Before You Call

Question	
Is the call necessary?	Check Chapter 6. Often you can solve the problem.
Who should call for service?	Typically, the system manager should place the call.
Where should you call?	<p data-bbox="558 764 1174 844">In the continental United States: If you purchased on-site warranty support at the time of sale, call Digital at 1-800-DEC-8000.</p> <p data-bbox="558 856 1138 936">If you do not have on-site warranty support and are returning the printer to Digital for service, call 1-800-225-5385.</p> <p data-bbox="558 949 1174 1029">For per-call service information, call your local Digital sales office.</p> <p data-bbox="558 1041 1138 1121">In Alaska, Hawaii, Canada, and Europe: Call your local Digital sales office for service.</p>
What does the service center need to know?	Write down the serial and model numbers located on the label on the rear of the printer.
How should you describe the problem?	<p data-bbox="558 1142 1019 1167">Summarize the problem. Make a note of:</p> <ul data-bbox="558 1188 1114 1314" style="list-style-type: none"><li data-bbox="558 1188 1114 1213">• What you were doing when the printer failed<li data-bbox="558 1234 1000 1260">• Any messages on the display panel<li data-bbox="558 1281 821 1306">• Any strange noises <p data-bbox="558 1335 1157 1415">Stay by the printer and host system if possible, because the service engineer may ask you to recreate the problem.</p>

A

Accessories and Supplies

This appendix lists some of the accessories and supplies available for the DEClaser 1152 printer. Contact your local sales representative or refer to your latest DECdirect catalog for a complete list of products and the latest pricing information. See Section A.1 for additional ordering information.

Table A-1 DEClaser 1152 Printer Accessories and Supplies

Part Number	Description
Communication	
BC19M-10	IBM/Centronics parallel cable
H8673-AA	20mA active host Mate-N-Lock to EIA-423 DECconnect MMJ passive converter
H8673-AB	20mA active host RJ11 (6-pin) to EIA-423 DECconnect MMJ passive converter
Media	
H9850-TA	Laser labels (30/sheet x 100 sheets per box)
H9850-TB	Laser labels (21/sheet x 100 sheets per box)
H9850-TC	#10 business size envelopes (500 per box)
H9850-TD	#7 3/4 executive size envelopes (500 per box)
LN01X-AB	Letter size paper 8.5 in. x 11.0 in. 5,000 sheets per box
LN01X-AC	Legal size paper 8.5 in. x 14.0 in. 5,000 sheets per box
LN01X-AD	A4 size paper 297 mm x 210 mm 5,000 sheets per box
LN03X-AJ	Letter size transparencies 8.5 in. x 11.0 in. 50 sheets per box
LN03X-AK	A4 size transparencies 297 mm x 210 mm 50 sheets per box
Accessories	
LN07X-PF	PostScript LaserWriter font cartridge
LN07X-UF	2 MB memory board upgrade
LN03X-AE	Mobile printer cabinet/stand
LN07X-AA	EP-L Cartridge Kit (Quantity = 1)
LN07X-TA	A4 size paper cassette (297 mm x 210 mm)
LN07X-TB	Legal size paper cassette (8.5 in. x 14.0 in.)
LN07X-TC	Letter size paper cassette (8.5 in. x 11.0 in.)
LN07X-TD	Envelope cassette
LN07X-TE	Executive size paper cassette (7.25 in. x 10.5 in.)
LN07X-TF	Letter size paper feeder unit
LN07X-TG	A4 size paper feeder unit

A.1 Ordering Information

Use the following mailing addresses and telephone numbers to order products for the DEClaser 1152 printer.

Table A-2 Ordering Within the U.S.A.

MAIL	Digital Equipment Corporation PO Box CS2008 Nashua, NH 03061-2008
TELEPHONE	To order or for technical assistance, dial 1-800-344-4825 between the hours of 8:30 a.m. and 8:00 p.m. EST For PC orders only, dial 1-800-PCBYDEC (722-9332) To fax any order, dial 1-800-524-5694 To use Digital's electronic store, dial through your modem 1-800-234-1998

Table A-3 Ordering Outside the U.S.A.

MAIL	Digital Equipment Corporation Accessories & Supplies Business Manager c/o Local Subsidiary or Digital-Approved Distributor
TELEPHONE	In Canada Order toll free 1-800-267-6215 In Australia Outside Sydney Metropolitan Area (toll free): 008-226-363 From Sydney Metropolitan Area: 412-7000 In New Zealand Auckland (toll free): 0800-800-332

B

Specifications

This appendix contains the operating and interface specifications for the DEClaser 1152 printer.

B.1 Operating Specifications

Type:	Desktop page printer
Printing Method:	Electrophotographic using laser beam scanning
Resolution:	300 dpi
Printing Speed:	4 pages/minute maximum using A4- or letter-size paper from the cassette
Warm-Up Time:	Less than one minute at 20°C (68°F)
Paper Tray:	Approximate capacity is 70 sheets of paper, labels, or transparencies. A maximum of five envelopes can be loaded in the paper tray.
Optional Paper Cassettes:	Approximate capacity is 250 sheets Letter (8.5 in. x 11.0 in.) A4 (210 mm x 297 mm) Executive (7.25 in. x 10.5 in.) Legal (8.5 in. x 14.0 in.)
Top Output Tray Capacity:	70 sheets (facedown stacking)
Front Output Tray Capacity:	20 sheets (faceup stacking)
Paper Weight Range Cassette Feed:	60 g/m ² to 90 g/m ² basis weight (16 lb. to 24 lb.)
Paper Weight Range Paper Tray Feed:	60 g/m ² to 105 g/m ² basis weight (16 lb. to 28 lb.)
Font Cartridges:	Capacity for two optional font cartridges

Built-in RAM:	2 MB, expandable to 4 MB with optional 2 MB board
Host Interface:	Parallel (Centronics) and serial (RS-232C), LocalTalk, and DEC423
Acoustic Noise:	Refer to the German Acoustic Noise Notice in the front of this book.
Operating Temperature:	10°C to 32.5°C (50°F to 90.5°F)
Operating Humidity:	20% to 80% relative humidity (no condensation)
Storage Temperature:	0°C to 35°C (32°F to 95°F)
Storage Humidity:	10% to 80% relative humidity (no condensation)
Power Requirements:	100–115V AC, 50/60 Hz 220–240V AC, 50 Hz
Power Consumption:	less than 0.55 kW (VA)
Installed Weight:	Approximately 11.0 kg (25 lb.)
Dimensions:	Width: 350 mm (13.8 in.) Depth: 405 mm (15.9 in.) Height: 204 mm (8.0 in.) Height: 259 mm (10.2 in.) with the optional paper feed unit and cassette installed.

B.2 EIA232 Serial Interface Specifications

Table B-1 lists the pin signals for the EIA232 serial interface connector.

Table B-1 EIA232 Serial Interface Pin Assignments

Pin	Signal	Direction
1	Not Used	None
2	Transmit Data	Out
3	Receive Data	In
4	Request to Send	Out
5	Clear To Send	In
6	Data Set Ready	In
7	Signal Ground	None
8-19	Not Used	None
20	Data Terminal Ready	Out
21-25	Not Used	None

B.3 Parallel Interface Specifications

Table B-2 lists the pin signals for the parallel (Centronics) interface connector.

Table B-2 Parallel Interface Pin Assignments

Pin	Signal	Direction
1	Data Strobe	In
2	Data 0	In
3	Data 1	In
4	Data 2	In
5	Data 3	In
6	Data 4	In
7	Data 5	In
8	Data 6	In
9	Data 7	In
10	ACK	Out
11	Busy	Out
12	Call (PE)	Out
13	Select	Out
14-15	Not Connected	None
16	0 Volts (Logic Ground)	None
17	Chassis Ground	None
18	+5 Volts	Out
19-30	Ground	None
31	Input Prime	In
32	Fault	Out
33	Ground	None
34-36	Not Connected	None

B.4 LocalTalk Interface Specifications

Table B-3 lists the pin signals for the LocalTalk interface connector.

Table B-3 LocalTalk Interface Pin Assignments

Pin	Signal	Direction
1	Unused	None
2	Input handshake/external clock	In
3	Transmit Data (-)	Out
4	Ground	None
5	Receive Data (-)	In
6	Transmit Data (+)	Out
7	Unused	None
8	Receive Data (+)	In

B.5 DEC423 Interface Specifications

Table B-4 lists the pin signals for the DEC423 interface connector.

Table B-4 DEC423 Interface Pin Assignments

Pin	Signal	Direction
1	Data Terminal Ready	Out
2	Transmit Data	Out
3	Ground	None
4	Common	In
5	Receive Data	In
6	Data Set Ready	In

C

Options Information

This section contains operator information as it relates to the optional font cartridge and the optional paper cassettes.

C.1 Contents of the PostScript Font Cartridge

Table C-1 lists the fonts and their corresponding PostScript findfont keys.

Table C–1 Contents of the PostScript Font Cartridge

Fonts	PostScript findfont Keys
ITC Avant Garde Gothic Book	/AvantGarde-Book
ITC Avant Garde Gothic Book Oblique	/AvantGarde-BookOblique
ITC Avant Garde Gothic Demi	/AvantGarde-Demi
ITC Avant Garde Gothic Demi Oblique	/AvantGarde-DemiOblique
ITC Bookman Demi	/Bookman-Demi
ITC Bookman Demi Italic	/Bookman-DemiItalic
ITC Bookman Light	/Bookman-Light
ITC Bookman Light Italic	/Bookman-LightItalic
ITC Lubalin Graph Book	/LubalinGraph-Book
ITC Lubalin Graph Book Oblique	/LubalinGraph-BookOblique
ITC Lubalin Graph Demi	/LubalinGraph-Demi
ITC LubalinGraph Demi Oblique	/LubalinGraph-DemiOblique
ITC Souvenir Demi	/Souvenir-Demi
ITC Souvenir Demi Italic	/Souvenir-DemiItalic
ITC Souvenir Light	/Souvenir-Light
ITC Souvenir Light Italic	/Souvenir-LightItalic
ITC Zapf Chancery Medium Italic	/ZapfChancery-MediumItalic
ITC Zapf Dingbats	/ZapfDingbats
New Century Schoolbook Bold	/NewCenturySchlbk-Bold
New Century Schoolbook Bold Italic	/NewCenturySchlbk-BoldItalic
New Century Schoolbook Italic	/NewCenturySchlbk-Italic
New Century Schoolbook Roman	/NewCenturySchlbk-Roman
Palatino Bold	/Palatino-Bold
Palatino Bold Italic	/Palatino-BoldItalic
Palatino Italic	/Palatino-Italic
Palatino Roman	/Palatino-Roman

C.2 Inserting the Paper Cassette Into the Paper Feeder Unit

These sections explain how to:

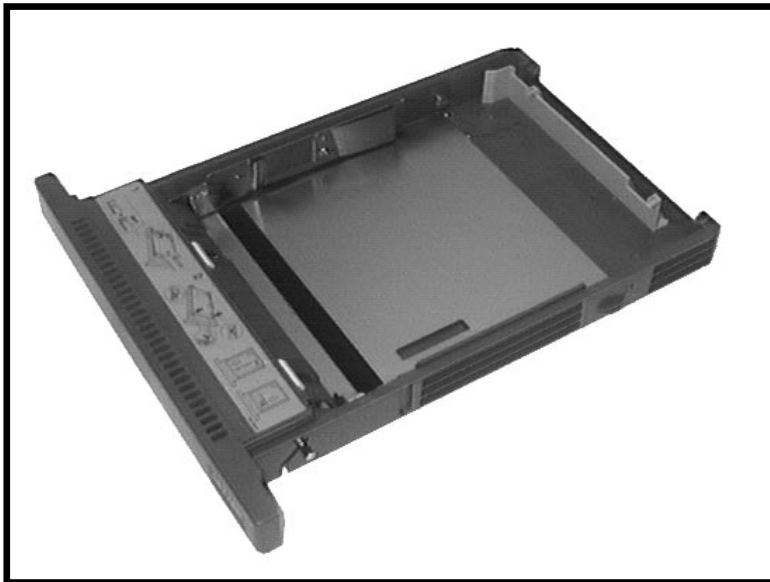
- Load paper into the paper cassette
- Insert the paper cassette into the paper feeder unit
- Assemble and install the legal size paper cassette
- Use the envelope cassette

Each paper cassette has a key attached to it that identifies the size of the paper loaded in the cassette: A4, executive, letter, and legal.

C.3 A4-, Executive-, and Letter-Size Paper Cassettes

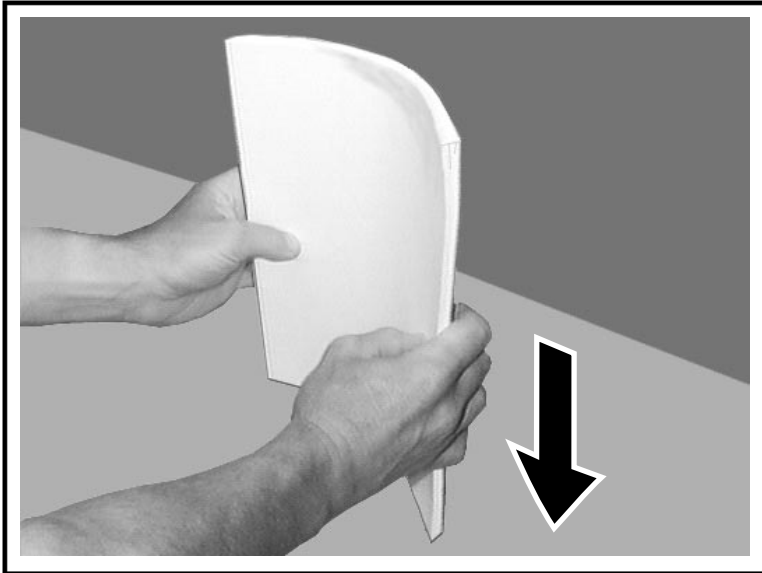
The following instructions apply to all paper cassettes except legal and envelopes.

1. Be sure the paper cassette matches the paper size you want to use for printing.



MLO-009007C

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

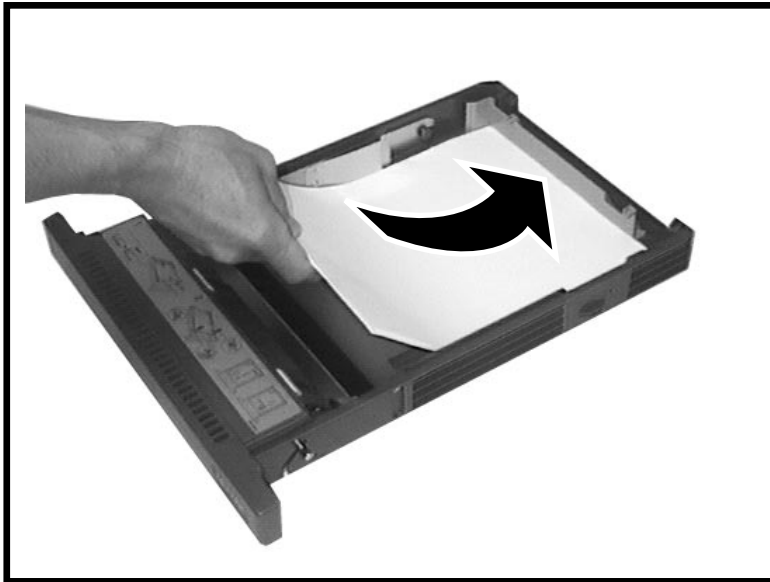


MLO-008995C

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

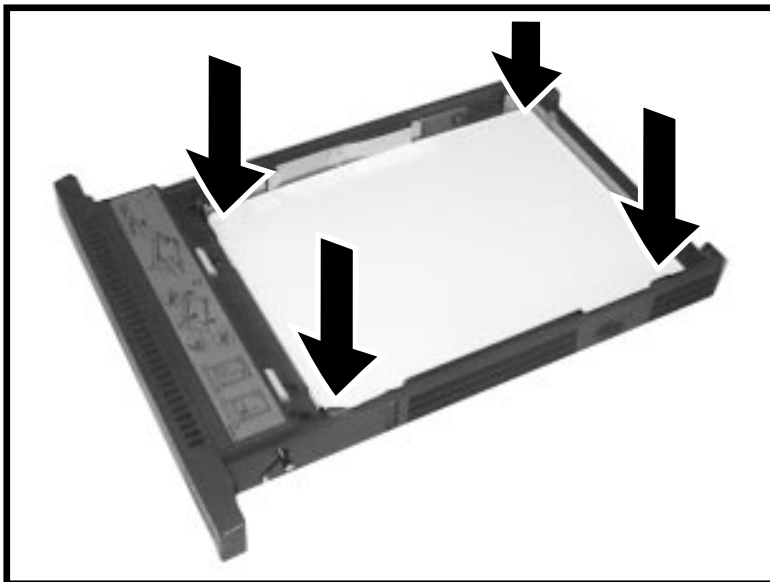
Note

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/m² (20 lb.) paper.



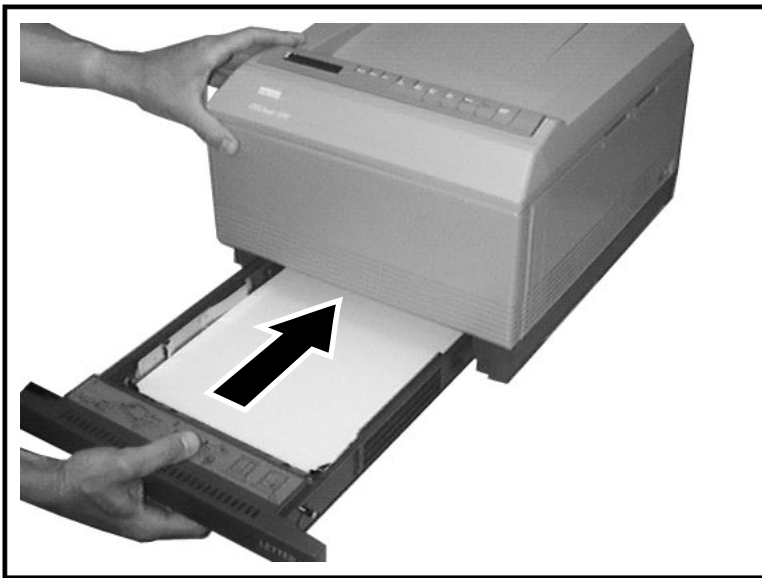
MLO-009008C

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.



MLO-009009C

5. Insert the paper cassette and push it into the paper feeder unit completely.



MLO-009010.C

C.4 Legal Size Paper Cassette

The legal size paper cassette extends beyond the length of the printer when in place.

1. Remove the paper cassette from the paper feeder unit, if one is installed.
2. Remove the back flap on the paper feeder unit by bending it carefully.

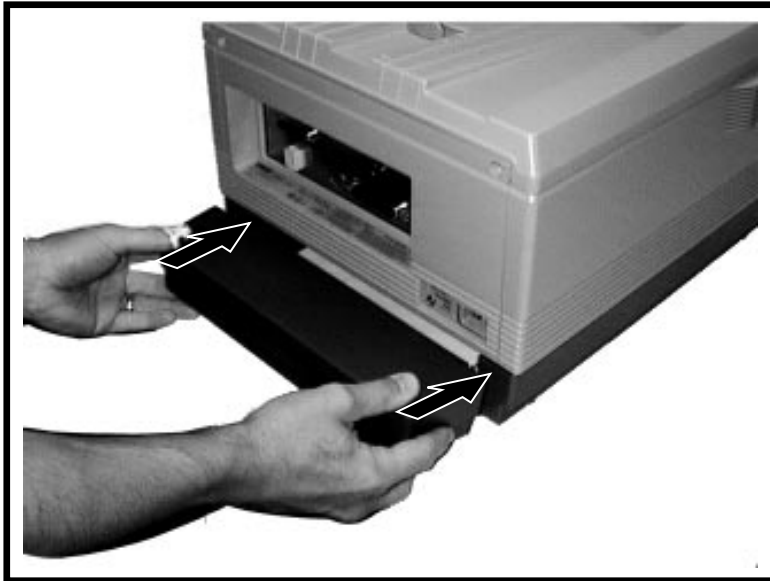


MLO-009490C

3. Install the legal size paper cassette rear cover by bending it carefully.

Note

Fit the pegs on the rear cover into the holes in the back of the feeder unit.



MLO-009491C

4. Load legal size paper into the paper cassette.
5. Insert the legal size paper cassette into the paper feeder unit.

C.5 Envelope Cassette

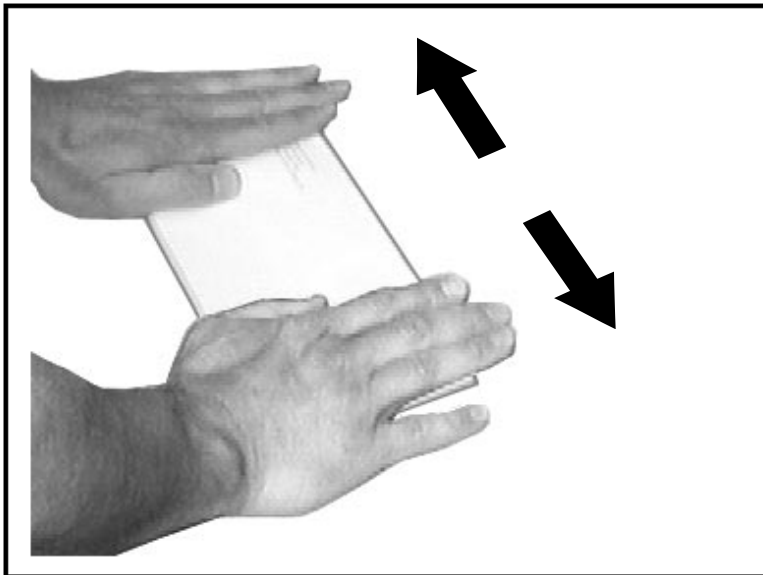
For trouble-free operation, be sure to use the appropriate envelopes for laser printers. Refer to Section 5.2 for envelope specifications.

Always send the envelopes to the front output tray.

1. Place a stack of envelopes on a flat surface and press down the edges to make crisp folds and to expel the air between the envelopes.

Note

Remove any curled envelopes from the stack and correct all creased corners.



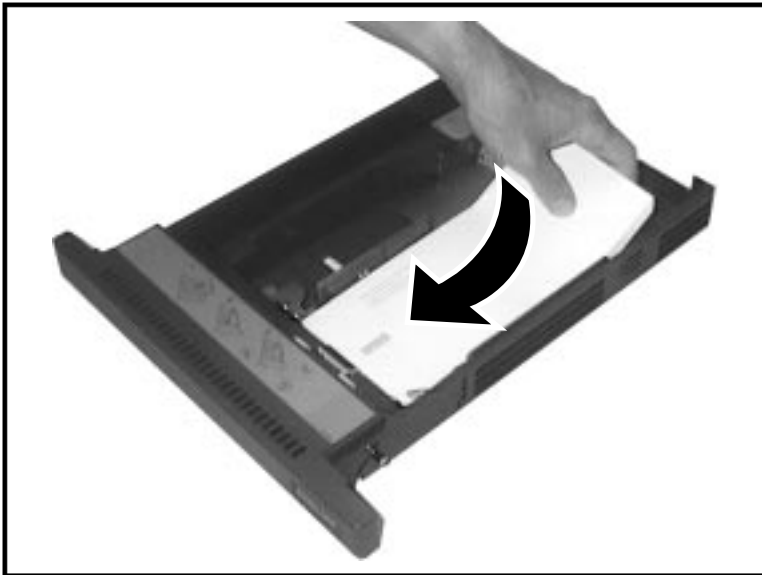
MLO-009011C

2. Place the envelopes into the envelope cassette with the address side of the envelopes facing up.

Note

Set the corner of the stack into the corner of the cassette.

You can load up to 20 envelopes at a time into the cassette. Refer to the limit guide (see insert in illustration) on the side of the cassette.



MLO-009013C

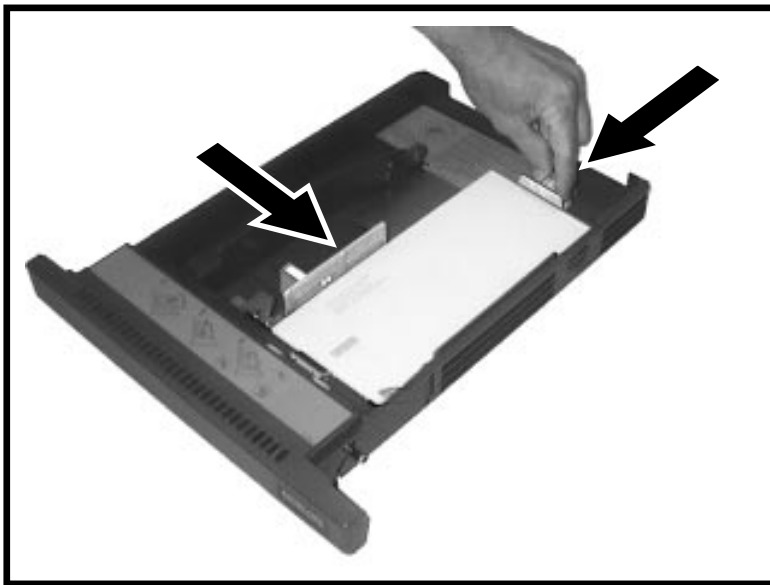
Observe the following points when using envelopes:

- Do not load envelopes into the envelope cassette unless the cassette is entirely empty.
- Never mix different types of envelopes, even if they are the same size.
- Print only on the front (address) side of envelopes. Printing on the reverse side can cause jams.

3. Align the two envelope guides with the edges of the envelope stack.

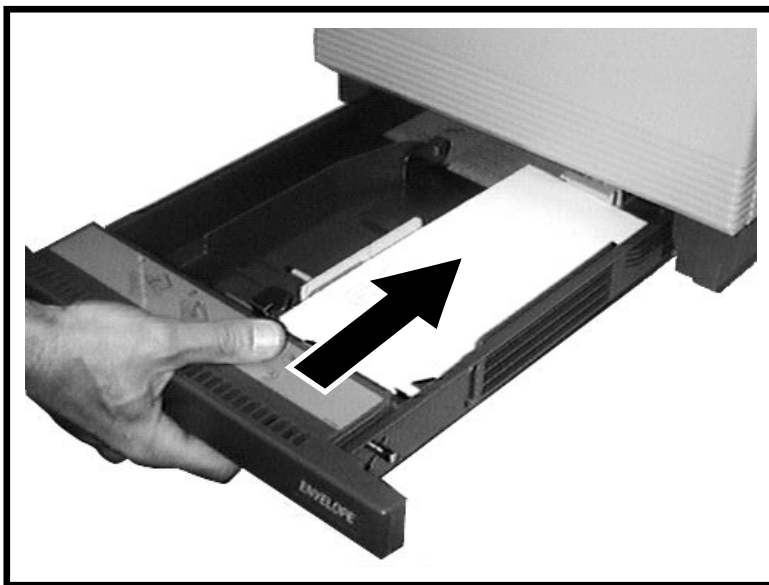
Note

The envelope guides must be snug against the envelope stack so the envelopes lie squarely in the cassette. Do not make the guides so loose as not to hold the envelopes in place.



MLO-009014C

4. Fit the cassette onto the runners on the feeder unit and push the cassette completely into the feeder unit.



MLO-009016C

The envelope cassette comes with a switch that can be set if envelopes do not feed correctly into the printer. The switch adjusts the feeder rollers to accept different paper weights. The switch is located at the front, right-hand side of the envelope cassette.

Follow these instructions to change the switch setting.

1. Remove the envelope cassette from the paper feeder unit.
2. For envelopes with approximately 90 g/m^2 (24 lb.) paper weight, move the switch so the small arrows and one large arrow are showing.
For envelopes with approximately 75 g/m^2 (20 lb.) paper weight, move the switch so only the one large arrow is showing.
3. Install the cassette and continue printing.

C.6 Hints For Operating the Feeder Unit

This section lists cautionary instructions you should be aware of when operating the DEClaser 1152 printer feeder unit.

- Fan small stacks of transparency film before loading in the cassette. Media feed failure or jams can result.
- Always remove each printed transparency film from the front output tray before the next film is printed.
- The paper curls excessively during printing if it is incorrectly oriented in the cassette, the paper is old, or the paper package has been opened for a time. If this occurs, turn over the paper stack in the cassette.
- When loading paper, always remove the paper in the cassette, add it to fresh paper, and reload the newly-aligned stack of paper.
- The printer's input and output paper capacity is 70 sheets. Paper jams, uncollated pages, and sheets falling out of the output tray can result if the paper output is allowed to exceed 70 sheets.
- Envelopes can be printed only on their front side.
- Printing in the 15 mm (3/5 in.) border around the envelope can cause print quality problems with some types of envelopes.
- Always send envelopes to the front output tray.

Glossary

ASCII

Abbreviation for American Standard Code for Information Interchange. The ASCII code table is widely used for data processing and communication, providing a set of characters and commands.

A4 paper size

The ISO standard paper size of 210 mm x 297 mm.

basis weight

A measurement used to describe the paper weight density in grams per square meter. Acceptable basis weight ranges for the printer are from 60 g/m^2 to 105 g/m^2 , or the equivalent of 16 lb. to 28 lb. To determine the basis weight in pounds, divide the g/m^2 by 3.75.

baud rate

The speed (bits/second) at which the computer and the printer communicate when a serial interface is used.

bit map

An image in digitized form that can be stored, transmitted, and reproduced precisely.

bitmap font

The type of font created from a bitmap pattern. A bitmap font has a fixed size, similar to the type set in typography.

buffer

An area in the printer's memory used for temporary storage of data during input and output operations.

built-in fonts

Fonts that reside in memory and are shipped with the printer. These fonts are sometimes referred to as internal, or resident fonts.

character set

A set of codes that describe the general appearance of a set of characters. For example, a character set might contain the code for an uppercase A or the number 1. Character sets do not describe the style (font) of a printed character.

command

An instruction that tells the printer to perform a certain function.

configuration

The process of changing the settings of the printer or computer so they communicate properly with each other. For example, if you use a serial interface, a feature such as baud rate must be configured to match the host computer and printer.

default

A value or setting the printer assumes unless specific changes are made.

downline loaded fonts

Fonts that are transferred (downline loaded) from the host computer and temporarily stored in the printer's memory.

dpi

Abbreviation for dots per inch. DPI is a unit of measurement to indicate printer resolution. The DEClaser 1152 printer has a print resolution of 300 dpi.

DTR

Abbreviation for Data Terminal Ready. DTR notifies the host that the printer is powered on. In some installations DTR is used to regulate flow control or monitor printer on line status. DTR is sometimes known as the hardware handshaking protocol.

EP-L cartridge

Abbreviation for electrophotographic laser cartridge. The EP-L cartridge contains toner, a photosensitive drum, and a cleaning mechanism for excess toner.

fixing assembly

The fixing assembly contains heat and pressure rollers that bond the toner to the paper. The fixing assembly is sometimes referred to as a fusing unit.

font

The artistic representation of a typeface that describes a set of characters by point size, weight, and style.

glyph

A single graphic symbol, as realized on paper or a display screen.

host

The computer that provides services and enables startup and management of peripheral devices, such as printers.

image area

The printable portion of a page. Like most printers, the DEClaser 1152 does not allow printing to the physical edge of the page.

initialize

To set starting values such as counters, switches, or addresses at the beginning of, or at prescribed points in, a computer routine.

interface

The connection of two devices through an interface cable, such as a computer and printer, making communication between them possible. The DEClaser 1152 printer supports a parallel (Centronics) interface, a serial (RS-232C) interface, LocalTalk.

landscape printing

A method of printing characters parallel to the long edge of the paper. Landscape printing is typically used for printing wide charts or tables.

LCD

Abbreviation for liquid crystal display. The printer messages appear on the LCD, which is part of the control panel.

letter size

The North American paper size of 8.5 in. x 11.0 in.

line weight

The thickness of a line. The thicker the line, the heavier the line weight.

menu

A list of the features and values used to configure the printer. For example, the interface menu contains the baud rates used to communicate with the host computer. For the DEClaser 1152 printer, many menus comprise the current printer settings.

moisture content

The ratio of water to the dry mass of paper. The moisture content can vary, depending on the type of paper and the amount of humidity to which it is exposed.

NVRAM

Abbreviation for nonvolatile random-access memory. Nonvolatile means that data is retained even after the printer is powered off. NVRAM is particularly useful when you are setting up the printer configuration, because all of the values can be saved.

off line

A communications mode when the printer cannot act on data from the host computer. When the On Line indicator is off, it indicates that the printer is off line.

on line

A communications mode where the printer can receive and act on data from the host computer. When the On Line indicator is on, it indicates that the printer is on line.

page

In the context of a laser printer, the image you are printing.

parallel interface

A data communications interface that transmits multiple bits of data (usually in 1-byte segments) simultaneously. The DEClaser 1152 printer uses a Centronics parallel interface.

portrait printing

A method of printing characters parallel to the short edge of the paper. This is the normal page orientation for printing. For example, this page is printed in a portrait orientation.

PostScript language

A programming language designed to convey a description of a desired page to a printer. It can describe a page containing any combination of text, graphical shapes, and digitized images.

printer controller firmware

The firmware that interprets the data in a print request according to a specified data syntax, builds bitmaps of each page to be printed, and forwards the bitmaps to the print engine, which produces the hardcopy output.

print density

Print density refers to the amount of toner applied to the paper to produce a lighter or darker print.

printer software

The software that handles the communications between the process that makes a print request (terminal), the process that provides resources (a host), and the process that performs the printing service (a print queue).

protocol

A procedure or set of rules that controls the communication between computers and peripherals. Also, a set of conventions between communicating processes regarding the format and contents of messages to be exchanged.

RAM

Abbreviation for random-access memory. RAM retains data only while power remains on. Data is cleared from RAM when the printer is powered off. The DEClaser 1152 printer contains 2 MB of built-in RAM, expandable to 4 MB with optional memory board.

reset

A procedure that clears data in the print buffer and returns the printer to the ready state.

resolution

The number of dots in a defined area. The resolution of the DEClaser 1152 printer is 300 dpi.

ROM

Abbreviation for read-only memory. ROM contains all of the factory default feature values. It is a permanent memory and cannot be cleared or changed.

serial interface

A data communications interface that transmits data sequentially, one bit at a time, at a fixed speed. The DEClaser 1152 printer uses an EIA232 serial interface.

sheet

In the context of a laser printer, the physical piece of paper that is printed.

simplex

A layout indicating that a document is formatted to be printed on one side of a sheet.

toner

A black powder commonly known as dry ink, which is used to form the images on the paper. Toner is contained in the EP-L cartridge on the DEClaser 1152 printer.

type family

A group of fonts that have a similar design, but differ in other font attributes. For example, Courier is a type family that resides in the DEClaser 1152 printer.

xon/xoff

A software protocol used with RS-232C serial communication. It regulates the flow of data to the input buffer by exchanging on/off signals with the host computer. The xon/xoff protocol is sometimes referred to as the software handshaking protocol.

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