LN17 and LN17ps Printers
Setting Up Guide

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Notice

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Setting up your Digital LN17 or LN17ps High Performance Network Printer is quite easy. It will likely take 10 to 30 minutes, depending on which printer options you install. Follow all instructions in this guide to complete printer setup.

1. "Getting to Know the Printer" (page 3)
2. "Selecting a Printer Location" (page 4)
3. "Assembling the Printer" (page 5)
4. "Testing the Printer" (page 8)
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This book is for use with both the Digital LN17 and LN17ps High Performance Network Printers. The LN17ps printer contains all the components of the LN17 printer, plus the following options:

- Adobe PostScript Level 2
- 4 MB additional memory
- DNIC-E’NET (Digital Network Interface Card for Ethernet)

As this guide serves both printers, the LN17ps printer will hereafter be referred to as the LN17 printer.
Getting to Know the Printer

First, familiarize yourself with the major components identified in Figure 1, below. Then continue with “Selecting a Printer Location” (page 4).

Figure 1 Major printer components

Front View
A Control Panel Display
B Control Panel Keypad
C Recessed Grip
D Power Switch
E Standard Output Tray
F Front Cover
G Front Tray (Multi-sheet Bypass Tray)
H Main Tray

Rear View
A Option Interface Cover
B Rear Cover
C Reserved
D Power Inlet
E Network Ports (Options)
F Parallel Port
G Controller Assembly
Selecting a Printer Location

Selecting a Printer Location

Select a printer location that meets the minimum air space requirements shown in Figure 2. Set the printer on a flat, stable surface away from direct sunlight and electrical interference.

In selecting a location for the printer, you should also consider the following:

- Is the Control Panel accessible for viewing and use?
- Is there enough clearance above the printer to replace consumables?
- Is there enough clearance above the printer to add paper handling options?
- Is there enough clearance around the printer should it ever require servicing? (If not, you may need to relocate the printer for servicing.)

![Figure 2: Minimum air space requirements around the printer](image)

- A: 50 mm (2 in.)
- B: 508 mm (20 in.)
- C: 50 mm (2 in.)
- D: 305 mm (12 in.)

Do not block the fan at the top rear left corner (E).
Assembling the Printer

Assembling the printer is easily accomplished in just a few steps:

• Install the EP (electronic printing) cartridge,
• Load the Main Tray paper cassette with paper and insert it into the printer, and
• Connect the power cord.

Follow the instructions below to assemble the printer.

Caution

Do not expose the EP cartridge to direct sunlight or artificial light for more than 15 minutes. Overexposure will permanently damage the photosensitive imaging drum.

Do not open the drum shutter or touch the green imaging drum.

Complete the EP cartridge installation within 15 minutes of removing the cartridge from its package.

1 Open the front cover by pressing the button on top of the cover.

2 Remove the plastic packing retainers (A, B and C).
3 Remove the EP cartridge from its wrapper.

4 Shake the EP cartridge several times to evenly distribute the toner.

5 Remove the tape strip.

6 Insert the EP cartridge into the guide channels marked by the arrows inside the front cover. Push in until it clicks in place, then close the front cover.
Assembling the Printer

Setting Up the LN17 and LN17ps Printers

7 Remove the main tray, press down on the bottom plate (A) until it clicks into position, and remove the plastic packing retainer (B).

8 Load paper so that it is under both the metal stop tab and the plastic fill tabs. Do not overfill the tray. Paper jams will result.

9 Adjust the width guide so it lightly touches the right edge of the paper stack. Then slide the tray into the printer. Continue to “Testing the Printer” (page 8).

Should you need to adjust the paper tray to fit other sizes of paper, refer to Chapter 2: Paper Handling in the LN17 and LN17ps Printers User Guide for instructions.
Testing the Printer

To test the printer, power it ON, then print a printer Configuration Sheet using the Control Panel.

1. Plug the power cord into the printer and a wall outlet, then power ON the printer.
   The printer will complete its self-test and display the following message at the Control Panel Display:
   
   Online
   Ready

2. Press Online  and Menu  and you will see:
   
   Main Menu
   Language

   If the Control Panel message is not displayed in your language, continue to Step 3. Otherwise, skip to Step 5.

3. Press Enter  and the display changes to:
   
   Language
   English

4. Press Down  or Up  until you see your language, then press Enter . Now all Control Panel messages will display in your language. The Control Panel momentarily displays:
   
   * saved *
   and then reverts to:
   
   Main Menu
   Language

5. Press Down  or Up  until you see:
   
   Main Menu
   Test Menu

6. Press Enter  and the display changes to:
   
   Test Menu
   Config. sheet
Testing the Printer

7 Press Enter \[\text{Enter}\] again to print a Configuration Sheet.

The Configuration Sheet requires a minute or so to print. If it does not print, refer to Chapter 6: Troubleshooting in the LN17 and LN17ps Printers User Guide.

If the Configuration Sheet prints, you have successfully assembled and tested the printer.

Notice that the Configuration Sheet lists options that are installed (if any).

8 If you have purchased printer options, power off the printer, unplug the power cord, and continue to "Installing Printer Options" (page 10). Otherwise, skip to "Connecting to a Host" (page 11).
Installing Printer Options

A number of options are available to increase the capabilities of your LN17 and LN17ps printers. Call your dealer or Digital for ordering information.

Printer options include memory SIMMs, Network Interface Cards for Ethernet and LocalTalk, the PostScript SIMM (already installed in the LN17ps printer), and the Hard Drive.

Paper handling options include a Mailbox/Collator, an Envelope Feeder, an Offset Catch Tray, a 500-sheet Paper Deck and Cassette, and a Duplex Module.

If you have purchased any of these options, install them now.

Refer to Appendix C: Installing and Removing Printer Options in the LN17 and LN17ps Printers User Guide for complete instructions.

Note

Installation of the memory SIMMs, the PostScript SIMM, the Hard Drive and the Network Interface Cards requires removal of the controller assembly from its housing. If you have more than one of these options, you can install all of them while the controller assembly is removed (before reinserting the controller assembly into its housing).
Connecting to a Host

The LN17 printer can have up to three communication ports (Figure 3). These ports allow you to connect to three distinct host systems concurrently.

Figure 3  LN17 printer input/output ports

You must supply the appropriate interface cable(s) to connect the printer to the host(s). Refer to Table 1 or Table 2 on page 12 for specifications.

Caution

Always power off the LN17 printer and the host before attaching the printer interface cable.
Connecting to a Host

Table 1  LN17 printer cable specifications

<table>
<thead>
<tr>
<th>Port Type</th>
<th>Cable Type(s)</th>
<th>Connection Type</th>
<th>Maximum Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parallel P1284</td>
<td>IEEE P1284-B Compliant Parallel Cable</td>
<td>Standard Centronics 36-pin male</td>
<td>2 meters (6 feet)</td>
</tr>
<tr>
<td>Ethernet (option)</td>
<td>ThinNet (10base2) (RG-58 coaxial cable)</td>
<td>BNC</td>
<td>185 meters (607 feet) and 30 devices per segment</td>
</tr>
<tr>
<td></td>
<td>10baseT (24 gauge, unshielded twisted pair cable)</td>
<td>RJ-45</td>
<td>100 meters (330 feet) per cable</td>
</tr>
<tr>
<td>LocalTalk (option)</td>
<td>LocalTalk PhoneNet</td>
<td>DIN-8</td>
<td>300 meters (990 feet) with a maximum of 32 devices</td>
</tr>
</tbody>
</table>

The following table lists cables and adapters available to support the LN17/LP17ps printers. Contact your dealer or Digital for ordering information.

Table 2  PC and Macintosh cables and adapters

<table>
<thead>
<tr>
<th>Host Connector Type</th>
<th>Cables</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>AppleTalk Cable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DIN 8-pin Male</td>
<td>BCC46-06</td>
<td>1.8 m (6 ft)</td>
</tr>
<tr>
<td>Parallel Cables</td>
<td></td>
<td></td>
</tr>
<tr>
<td>25-pin Centronics Parallel</td>
<td>BC19M-06</td>
<td>1.8 m (6 ft)</td>
</tr>
<tr>
<td></td>
<td>25-pin Centronics Parallel</td>
<td>BC19M-10</td>
</tr>
</tbody>
</table>
Connecting to a Host

Install the appropriate LN17 printer driver(s) (described on the following pages) on your host as per the instructions provided with each driver.

For the network options, refer to the respective network card User Guide to configure the network parameters. To verify communications, send a job to the printer.

Refer to Appendix C: Installing and Removing Printer Options in the LN17 and LN17ps Printers User Guide for complete instructions.
Installing a Printer Driver

The base LN17 printer supports the PCL 5e Emulation printer drivers listed in Table 3. To take full advantage of all the printer's features when printing PCL jobs, install the appropriate LN17 printer PCL 5e Emulation printer driver(s).

(Consult your operating system user manual for instructions on installing a new printer driver.)

Table 3 LN17 PCL 5e Emulation printer drivers

<table>
<thead>
<tr>
<th>Environment</th>
<th>Printer Driver</th>
<th>Diskette</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOS†</td>
<td>Microsoft Word Ver. 6.0</td>
<td>Printer Drivers for MS-DOS</td>
</tr>
<tr>
<td></td>
<td>WordPerfect Ver. 6.0</td>
<td>Printer Drivers for MS-DOS</td>
</tr>
<tr>
<td></td>
<td>AutoCAD Rel. 12, 13</td>
<td>Printer Drivers for MS-DOS</td>
</tr>
<tr>
<td>Windows</td>
<td>Windows 3.1 / Windows 95</td>
<td>PCL5e Emulation Printer Driver for Microsoft Windows 3.x and Windows 95</td>
</tr>
<tr>
<td></td>
<td>Windows NT 3.5</td>
<td>PC 5e Emulation Printer Driver for Microsoft Windows NT</td>
</tr>
</tbody>
</table>

† If you are using a DOS application other than Microsoft Word, WordPerfect, or AutoCAD, use the HP LaserJet 4 printer driver supplied with your application software.
If you purchased the PostScript option (or if your printer came with PostScript installed), your printer also supports the PostScript drivers listed in Table 4 on page 15. To take full advantage of all the printer's features when printing PostScript jobs, install the appropriate LN17 PostScript printer driver(s). (Consult your operating system user manual for instructions on installing a new printer driver.)

Call Digital for any drivers you need beyond those supplied with the printer.

### Table 4 LN17 PostScript printer drivers

<table>
<thead>
<tr>
<th>Environment</th>
<th>Printer Driver</th>
<th>Diskette</th>
</tr>
</thead>
<tbody>
<tr>
<td>Windows</td>
<td>Windows 3.1 / Windows 95</td>
<td>PostScript Printer Drivers for Microsoft Windows 3.1 and Windows 95</td>
</tr>
<tr>
<td></td>
<td>Windows NT 3.5</td>
<td>PostScript Printer Driver for Microsoft Windows NT</td>
</tr>
<tr>
<td>Macintosh</td>
<td>System 6.x</td>
<td>PostScript Printer Driver and Utilities for Macintosh</td>
</tr>
<tr>
<td></td>
<td>System 7.x</td>
<td>PostScript Printer Driver and Utilities for Macintosh</td>
</tr>
</tbody>
</table>
Installing DCPS Software

DECprint Supervisor (DCPS) for OpenVMS is a family of layered products that run on OpenVMS VAX and OpenVMS Alpha systems to provide access to selected PostScript Level 1 and Level 2 print devices.

The DCPS software and documentation are available in the standard OpenVMS CDROM libraries, and may also be ordered separately from Digital.

The license rights to use the basic printing features of DCPS with Digital PostScript printers are included with the OpenVMS operating system.

You can find more information about the DCPS products, including pricing and support of optional features, and ordering information, in the DECprint Supervisor (DCPS) for OpenVMS Software Product Description (AE-PUM0*-TE).

For DCPS installation information, refer to the DECprint Supervisor for OpenVMS Software Instalation Guide.
Installing DS/P Software for Novell

DS/P (Document Services for Printing) is an innovative combination of client and server software that increases the ease of use and productivity of the LN17 and LN17ps printers. It capitalizes on the advanced bidirectional communication features built into the printer. DS/P will:

• Install and configure LN17 printers for use on a PC using a Novell NetWare network.
• Improve access to printer console features through a remote user interface.
• Increase user productivity and self-sufficiency through best-fit printer selection and graphical status feedback features.
• Enhance management of network printing resources through accounting and load balancing graphs and reports.

For more information about DS/P, consult the Document Services for Printing (DS/P) User Guide (packaged with the Ethernet network card for the LN17 printer).
Congratulations! You have completed your setup of the Digital LN17 or LN17ps High Performance Network Printer. If you have any questions or need to set optional parameters for printing, the LN17 and LN17ps Printers User Guide is a complete reference guide to all the printer's features and functions.