H4000
DIGITAL Ethernet Transceiver
Installation Manual

Prepared by
Educational Services
of
Digital Equipment Corporation
© Digital Equipment Corporation 1984
All Rights Reserved

The information in this document is subject to change without notice and should not be construed as a commitment by Digital Equipment Corporation. Digital Equipment Corporation assumes no responsibility for any errors that may appear in this document.

Printed in U.S.A.

The following are trademarks of Digital Equipment Corporation:

<table>
<thead>
<tr>
<th>Digital</th>
<th>DECUS</th>
<th>DECwriter</th>
<th>Rainbow</th>
</tr>
</thead>
<tbody>
<tr>
<td>DATATRIEVE</td>
<td>DIBOL</td>
<td>MASSBUS</td>
<td>RSTS</td>
</tr>
<tr>
<td>DEC</td>
<td>PDP</td>
<td>VAX</td>
<td>RSX</td>
</tr>
<tr>
<td>DECMate</td>
<td>P/PS</td>
<td>VMS</td>
<td>UNIBUS</td>
</tr>
<tr>
<td>DECSYSTEM-10</td>
<td>Professional</td>
<td>VT</td>
<td></td>
</tr>
</tbody>
</table>
If You Need Help:

Call the Ethernet Customer Support Center

US (except Alaska, Georgia, and Hawaii):
Call toll-free 800-554-3333

Alaska, Georgia, and Hawaii:
Call collect 404-953-9056
Note:

Install the DIGITAL H4000 Ethernet Transceiver only on black bands located every 2.5 m (8 ft) on DIGITAL Ethernet coaxial cable.

CAUTION: Not for installation in air ducts or plenums. For installation in other environmental air handling spaces, use only with cable classified by Underwriters Laboratories, Inc. as to fire and smoke characteristics in accordance with Section 725-2(b) of the National Electric Code.
You Should Have These Items:

H4000 TRANSCEIVER
(IN SHIPPING PACKAGE)

ETHERNET TRANSCEIVER
INSTALLATION KIT H4090–KA,
OR H4090–KB AND DRILL
Installation Kit Contents

Note: Drill and charger in H4090-KA only; not required for installation.

DRILL AND DRILL CHARGER 29-24337

DRILL CHUCK KEY

DRILL BITS
29-24341
Installation Kit Contents (continued)

- **HEX WRENCH**
  - 29-24340

- **DRILLING FIXTURE 29-24338**
  - (INCLUDES DRILL GUIDE AND CABLE GUIDE)

- **CABLE GUIDE**

- **DRILL GUIDE**

- **BOX OF BRAID CONTACTS**
  - 29-24339
  - (NOT REQUIRED FOR INSTALLATION)

- **CABLE TIES**
  - (NOT INCLUDED WITH INSTALLATION KIT)
Checking Drill

If drill does not operate, turn drill to "OFF" and install drill charger.

Full recharging may take up to three hours.

**CAUTION:** Do not operate drill with charger in place.
Checking Drill (continued)

Put drill in "FWD" (forward) position.

Turn drill on when ready to use.
Installing Drill Bit

Install drill bit so that 6 mm (1/4 in) of bit insulation protrudes from drill.

Tighten with chuck key.
Unpacking Transceiver

Loosen clamp block screw with hex wrench.

CLAMP BLOCK SCREW
Unpacking Transceiver (continued)

Remove clamp block and foam.
Inspecting Transceiver

Replace transceiver if probes are broken or bent.

Replace braid contacts if broken or bent.
CAUTION: Probe screw must not be screwed down. Loosen probe screw, if necessary.
Choosing Transceiver Direction

Find black band (every 2.5 m) on coaxial cable.

Find transceiver connector (may be located at either end of transceiver).
Positioning Transceiver

Place transceiver parallel to coaxial cable so that transceiver connector points towards transceiver cable.
Loosen cable clamps on cable guide with hex wrench.
Installing Cable Guide

Place cable guide on coaxial cable as shown.

Center selected black band over notches in cable guide.

Note: Guide may be placed on cable from any angle.
Tightening Cable Guide

Close cable clamps over cable.

Securely tighten clamps with hex wrench.

**CAUTION:** To avoid damage to cable, do not overtighten.
Installing Drill Guide

1. DRILL GUIDE (PRESS TO OPEN)

2.

3.

4.
Drilling Cable

Drill from both sides of drill guide.

Drill all the way in until drill bit stops against drill guide.
Removing Drill Guide

CAUTION: Do not loosen cable clamps.
Installing Cable onto Transceiver

Push cable into coaxial cable channel.

Note: Drill holes must line up with probe in cable channel.
Installing Clamp Block
Tightening Clamp Block Screw

Tighten clamp block screw with hex wrench.
Tightening Probe Screw

Tighten probe screw with hex wrench.
Removing Cable Guide

Loosen cable clamps with hex wrench. 1

Remove cable guide. 2
Opening Connector Latch

Slide cable connector latch to open position.

TRANSCEIVER CABLE CONNECTOR IN OPEN POSITION
Attaching Transceiver Cable

Attach transceiver cable to transceiver cable connector.
Closing Connector Latch

Slide cable connector latch to closed position, and check that connection is secure.
Connect transceiver cable to coaxial cable at 15 cm (6 in) from transceiver cable connector.
Labeling Transceiver

Blank label is for your use to indicate additional information about transceiver.
Congratulations!

You have completed installation of the H4000 DIGITAL Ethernet Transceiver.