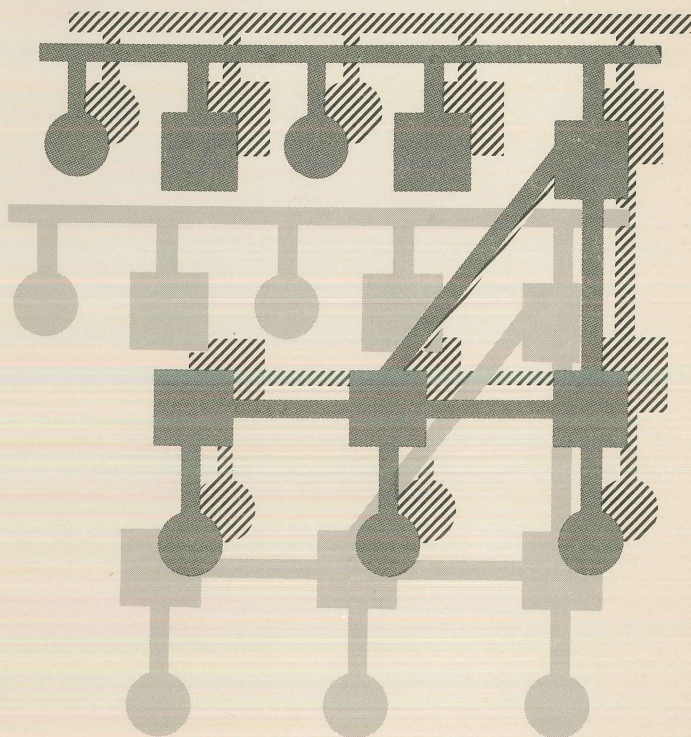
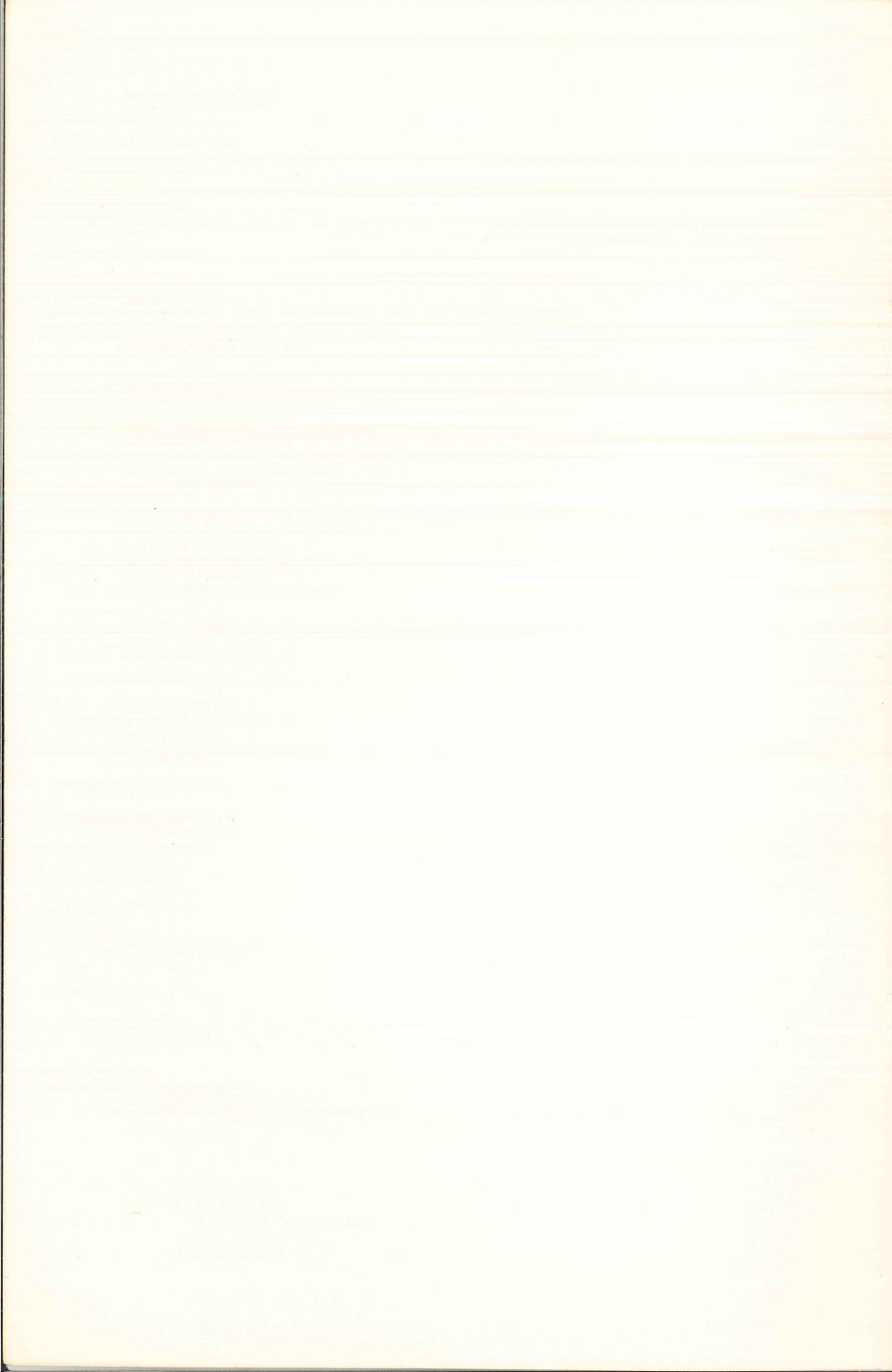


H4000 DIGITAL Ethernet Transceiver

Installation Manual





H4000

DIGITAL Ethernet Transceiver

Installation Manual

Prepared by
Educational Services
of
Digital Equipment Corporation

2nd Edition, June 1984

© 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:

digital

DATA TRIEVE

DEC

DECmate

DECset

DECsystem-10

DECSYSTEM-20

DECUS

DECwriter

DIBOL

MASSBUS

PDP

P/PS

Professional

Rainbow

RSTS

RSX

UNIBUS

VAX

VMS

VT

Work Processor

If You Need Help:

Call the Ethernet Customer Support Center

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

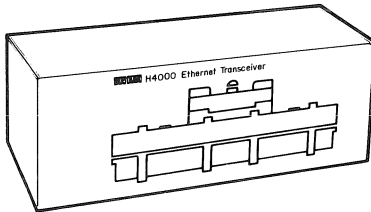
Alaska, Georgia, and Hawaii:
Call collect 404-953-9056

Note:

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

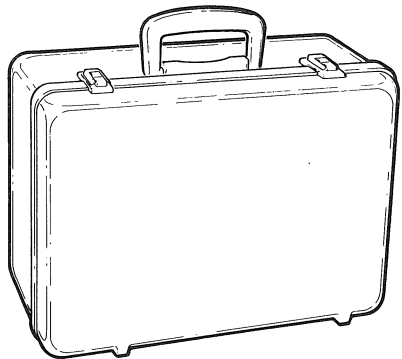
CAUTION: Not for installation in air ducts or plenums. For installation in other environmental air handling spaces, use only with cable classified by Underwriters Laboratories, Inc. as to fire and smoke characteristics in accordance with Section 725-2(b) of the National Electric Code.

You Should Have These Items:



**H4000 TRANSCEIVER
(IN SHIPPING PACKAGE)**

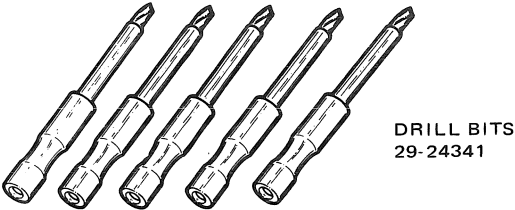
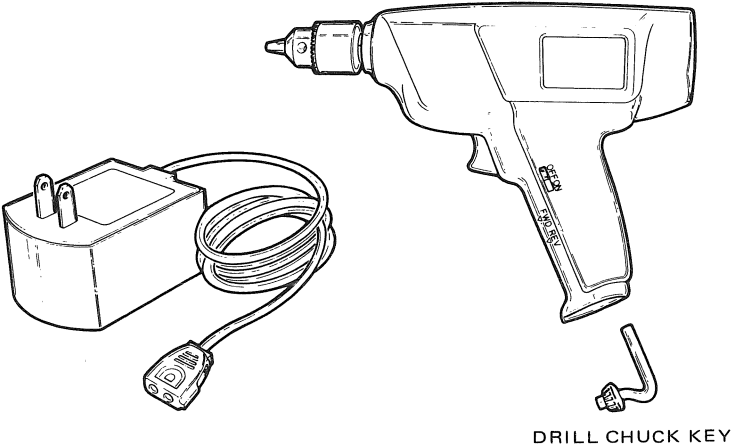
**ETHERNET TRANSCEIVER
INSTALLATION KIT H4090-KA,
OR H4090-KB AND DRILL**



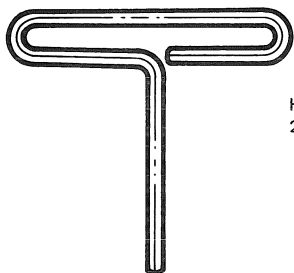
Installation Kit Contents

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

DRILL AND DRILL CHARGER 29-24337

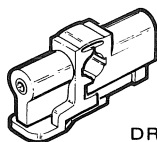


Installation Kit Contents (continued)

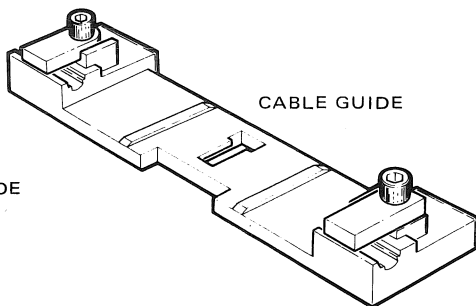


HEX WRENCH
29-24340

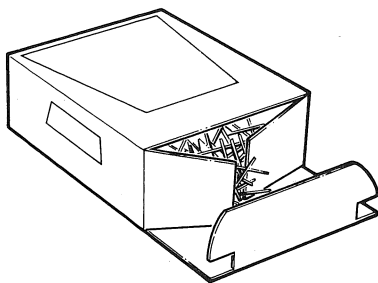
DRILLING FIXTURE 29-24338
(INCLUDES DRILL GUIDE
AND CABLE GUIDE)



DRILL GUIDE

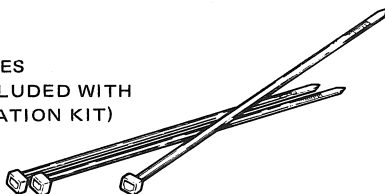


CABLE GUIDE



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

CABLE TIES
(NOT INCLUDED WITH
INSTALLATION KIT)

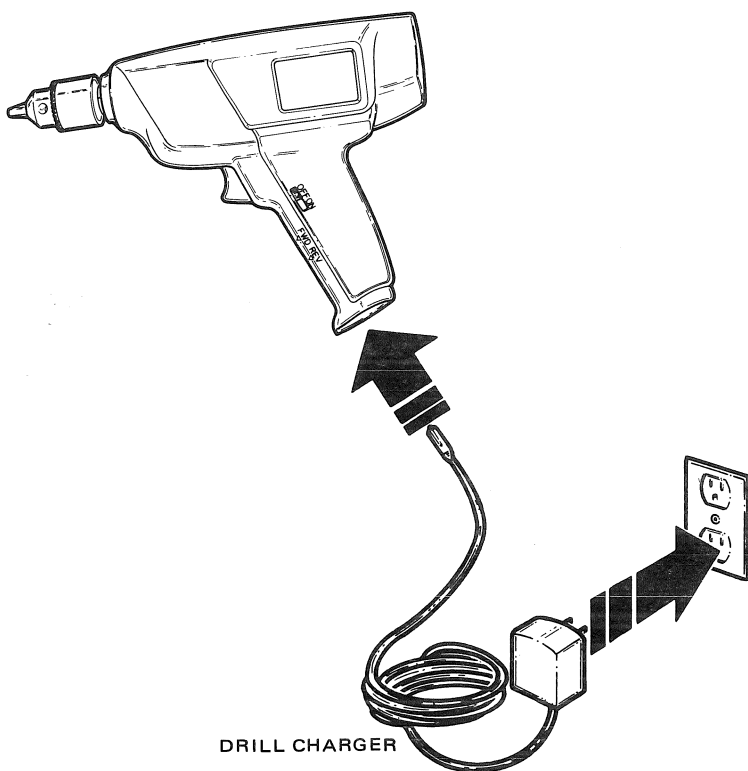


Checking Drill

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

Full recharging may take up to three hours.

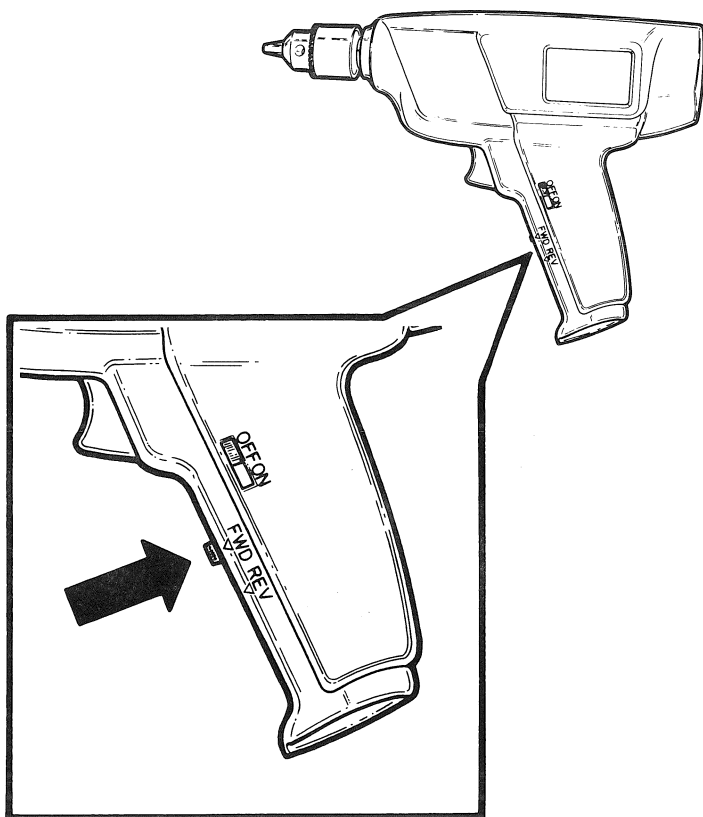
CAUTION: Do not operate drill with charger in place.



Checking Drill (continued)

Put drill in "FWD" (forward) position.

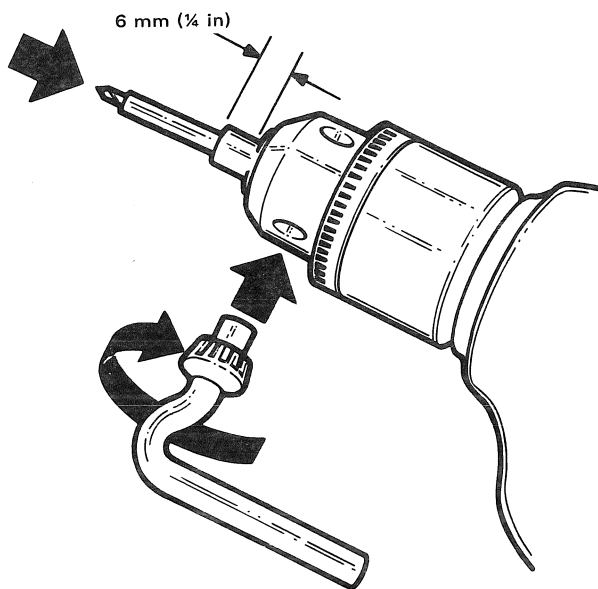
Turn drill on when ready to use.



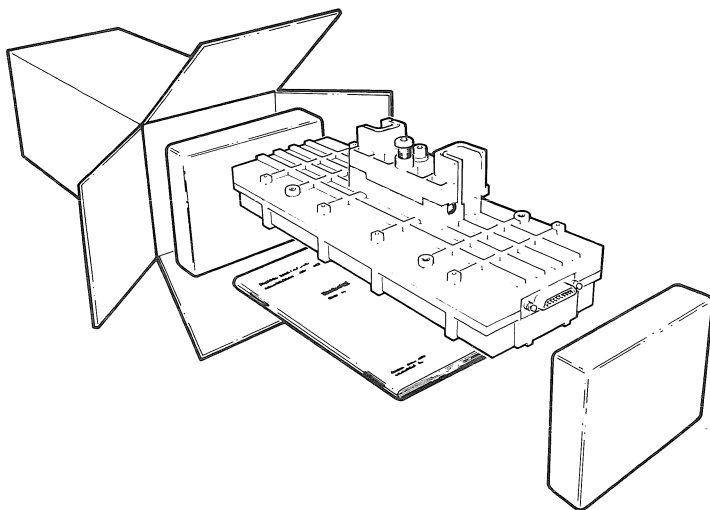
Installing Drill Bit

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

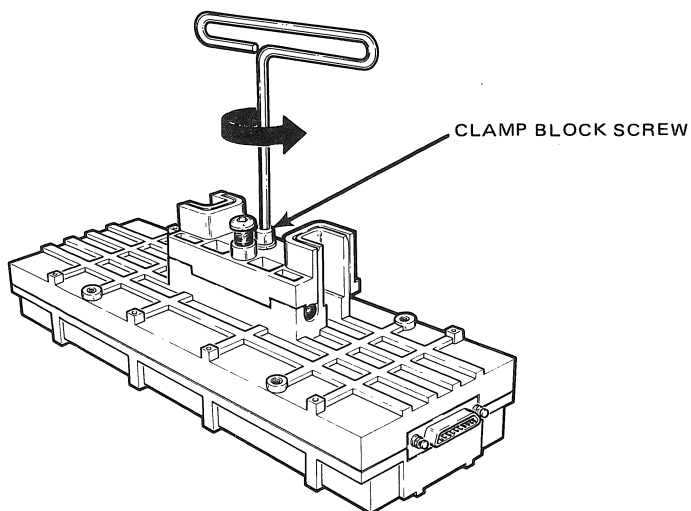
Tighten with chuck key.



Unpacking Transceiver

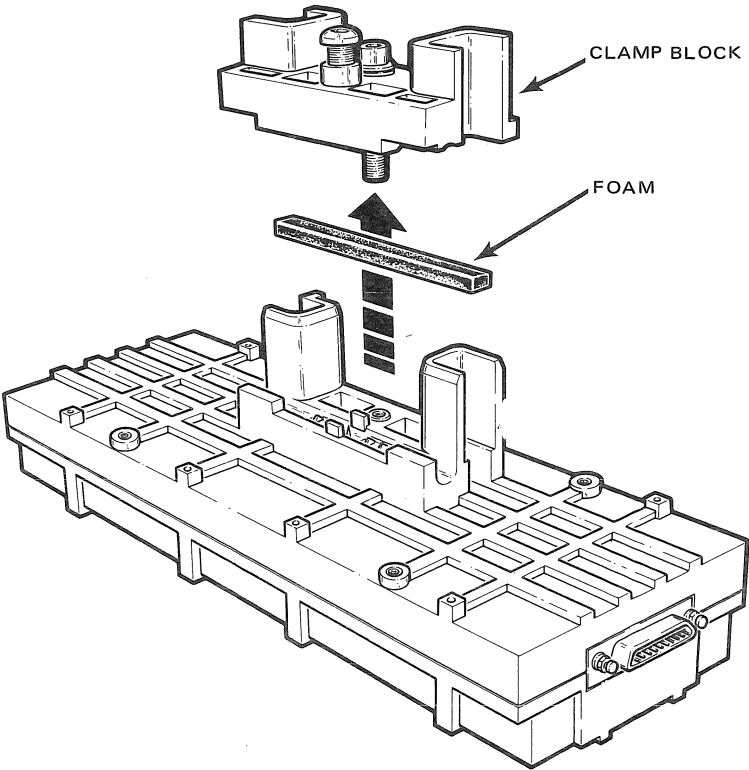


Loosen clamp block screw with hex wrench.



Unpacking Transceiver (continued)

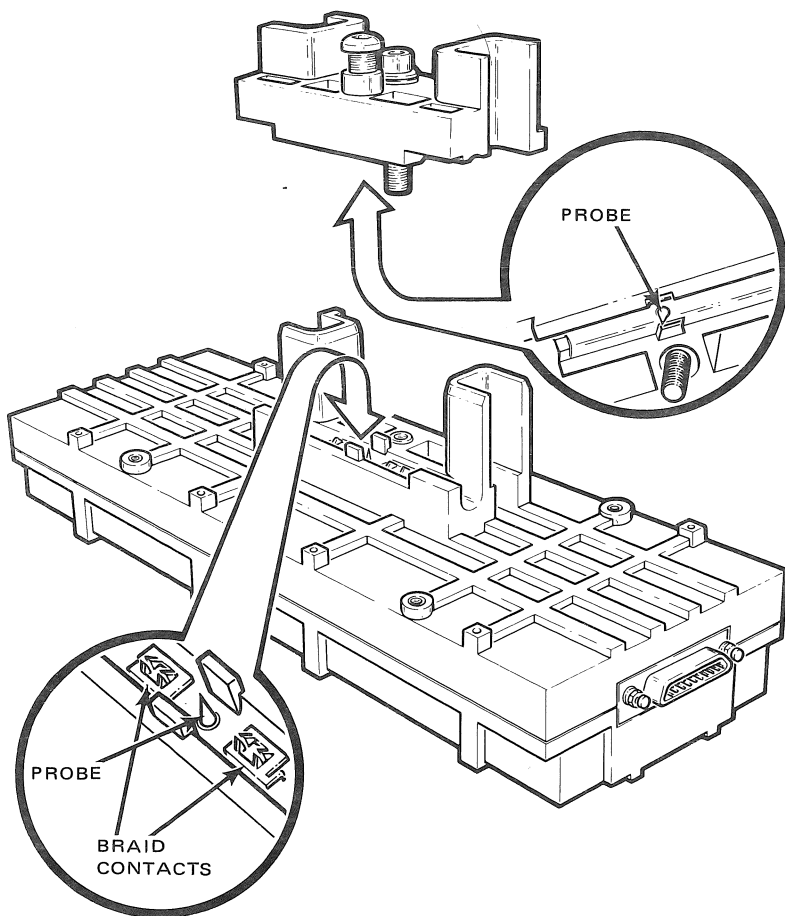
Remove clamp block and foam.



Inspecting Transceiver

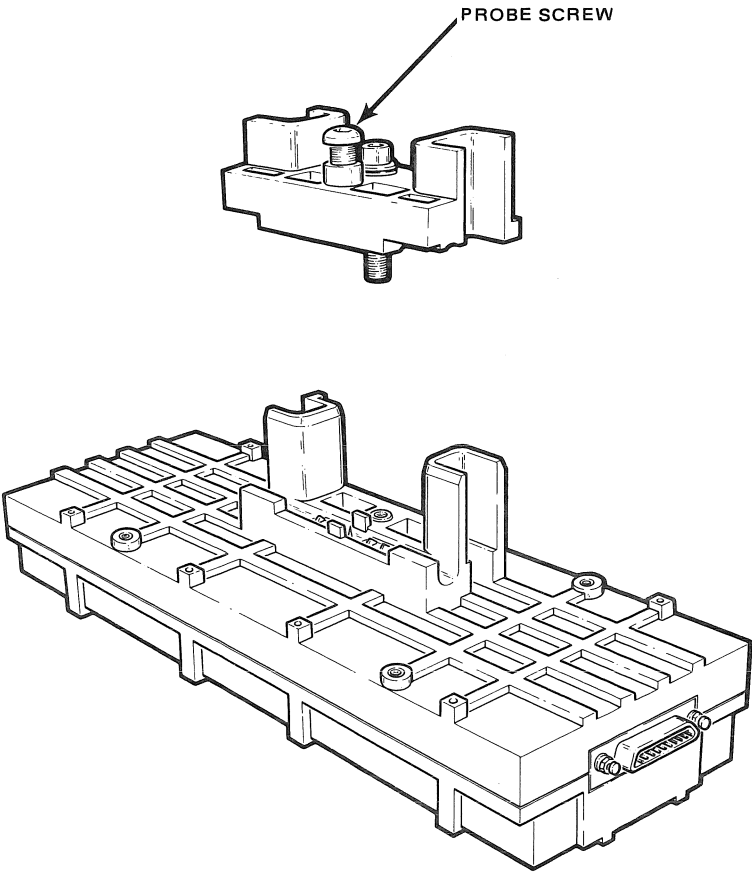
Replace transceiver if probes are broken or bent.

Replace braid contacts if broken or bent.



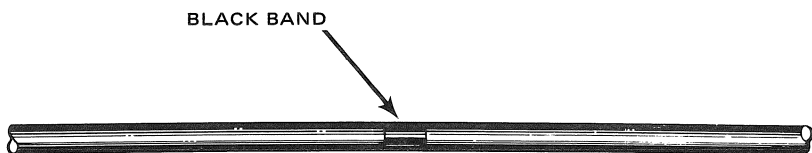
Inspecting Transceiver (continued)

CAUTION: Probe screw must not be screwed down.
Loosen probe screw, if necessary.

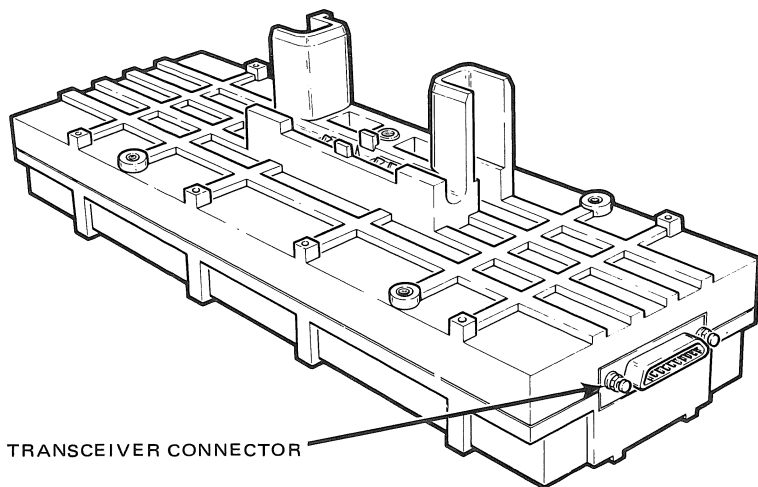


Choosing Transceiver Direction

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

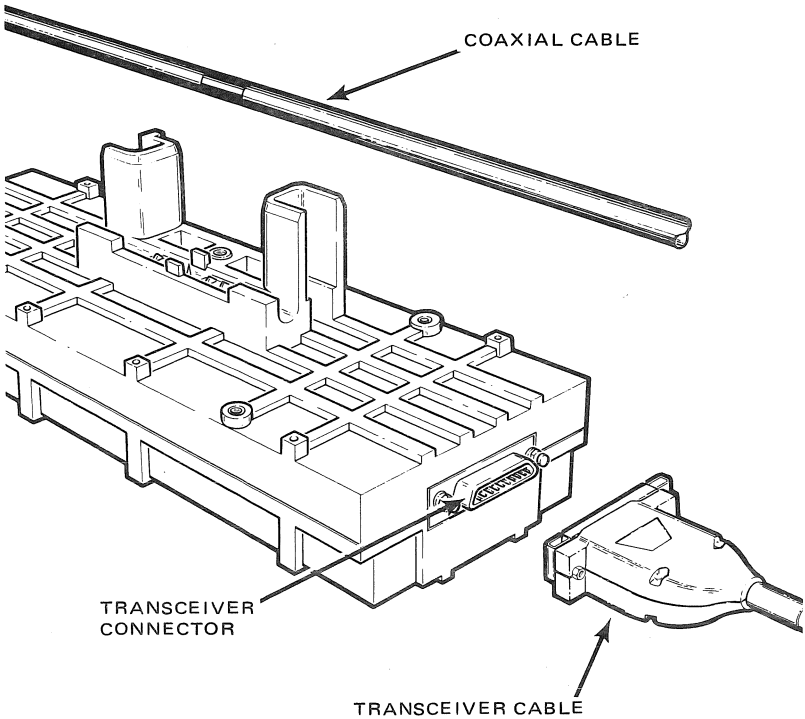


Find transceiver connector (may be located at either end of transceiver).



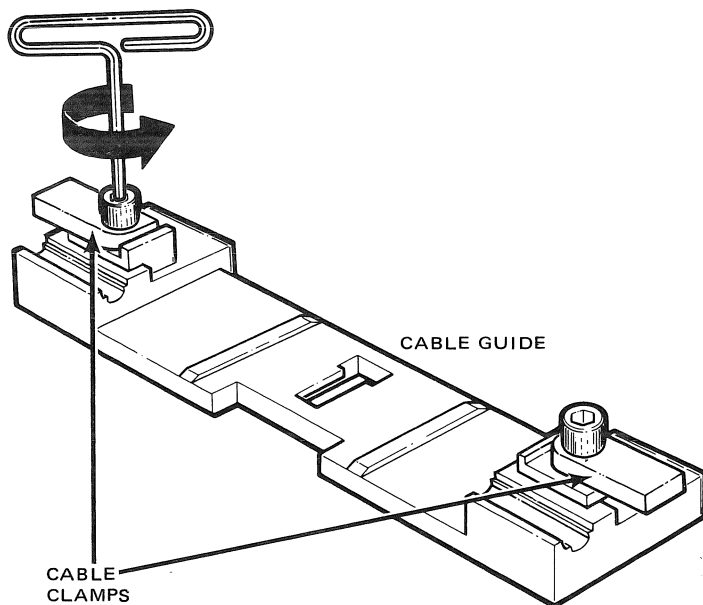
Positioning Transceiver

Place transceiver parallel to coaxial cable so that transceiver connector points towards transceiver cable.



Opening Cable Guide

Loosen cable clamps on cable guide with hex wrench.

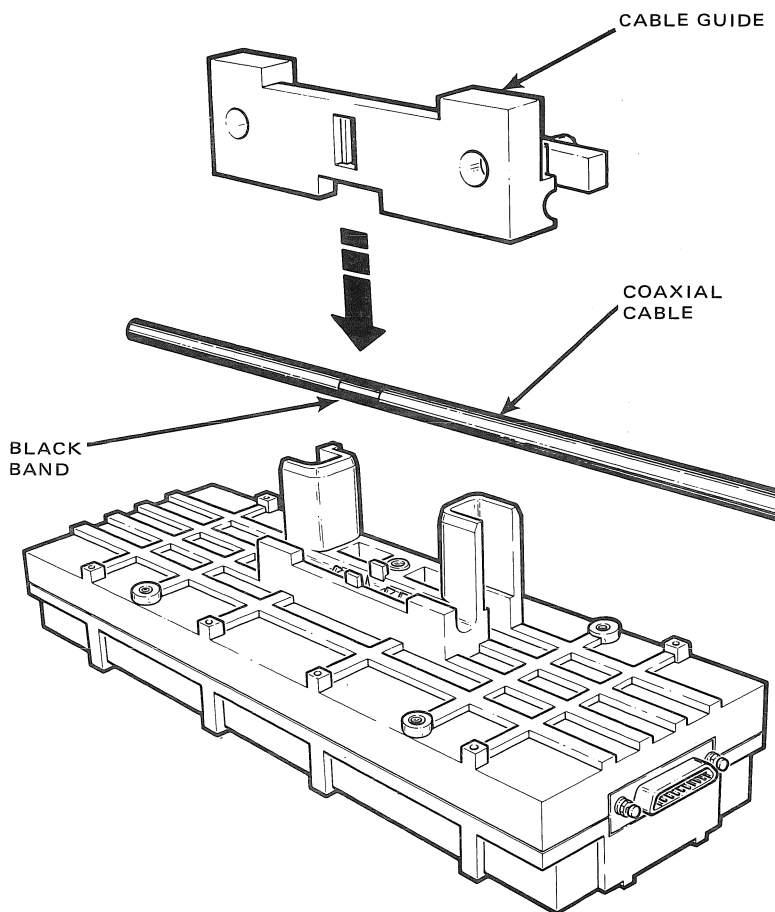


Installing Cable Guide

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.

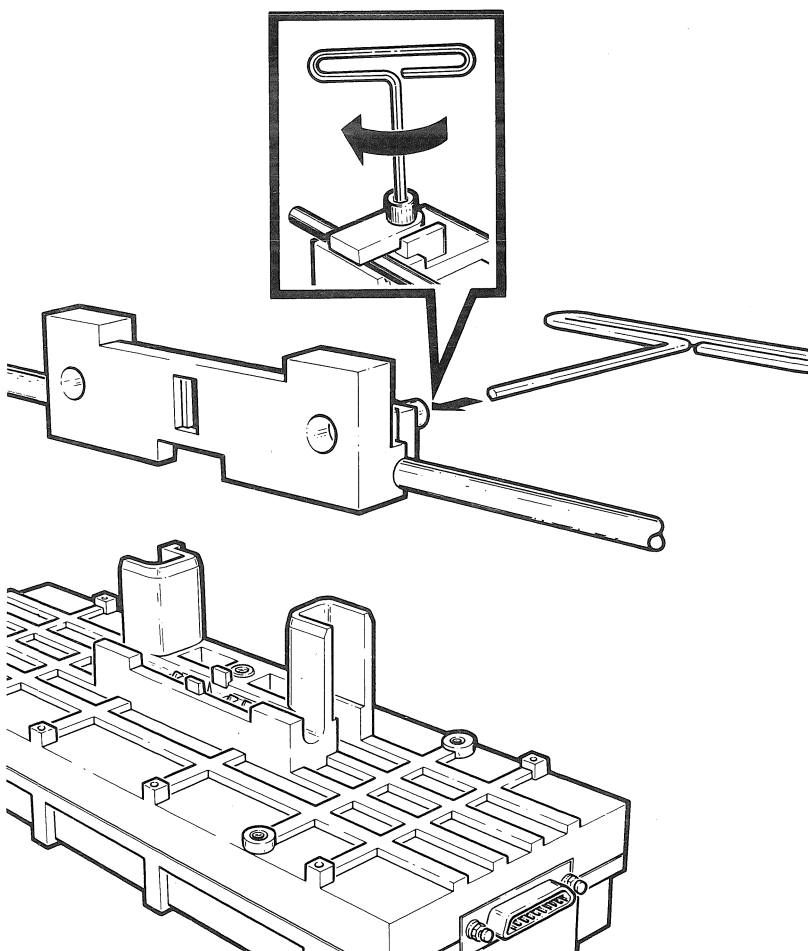


Tightening Cable Guide

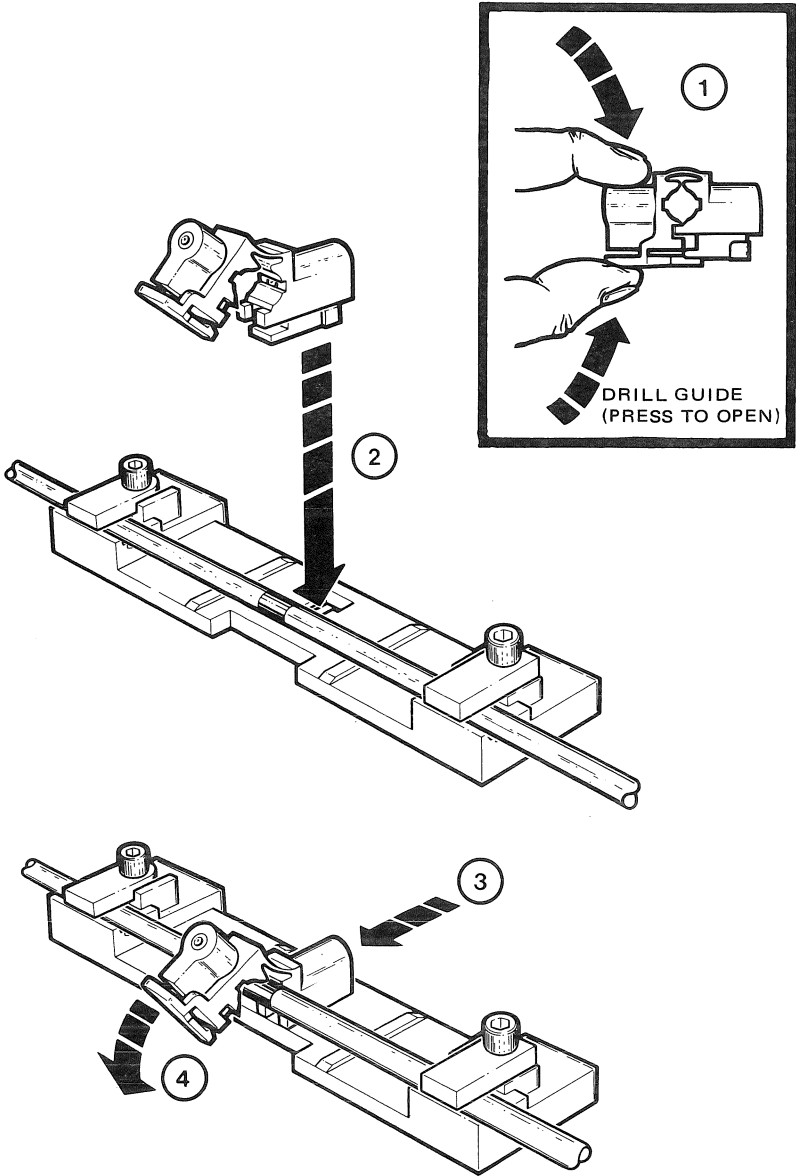
Close cable clamps over cable.

Securely tighten clamps with hex wrench.

CAUTION: To avoid damage to cable, do not overtighten.



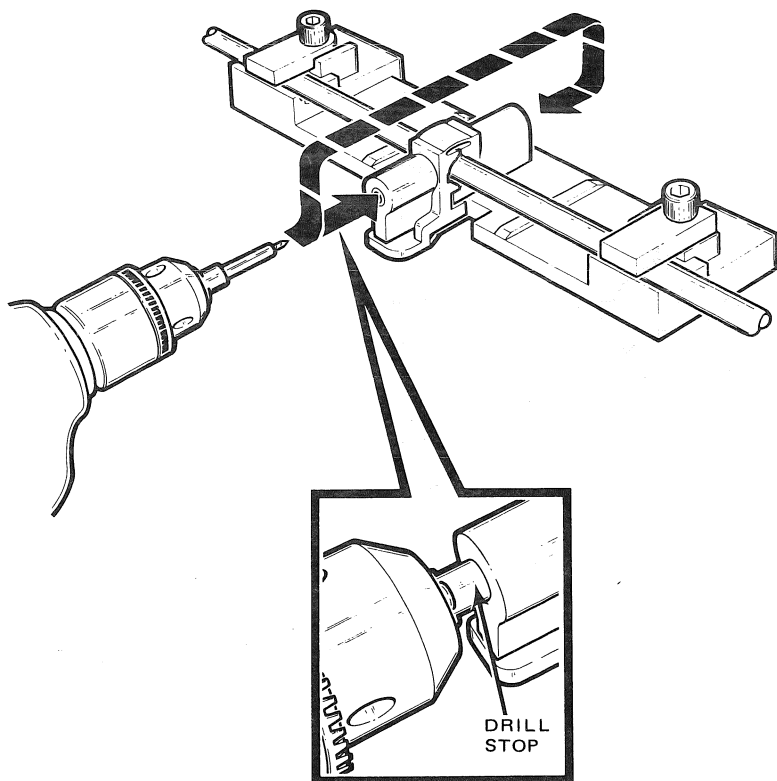
Installing Drill Guide



Drilling Cable

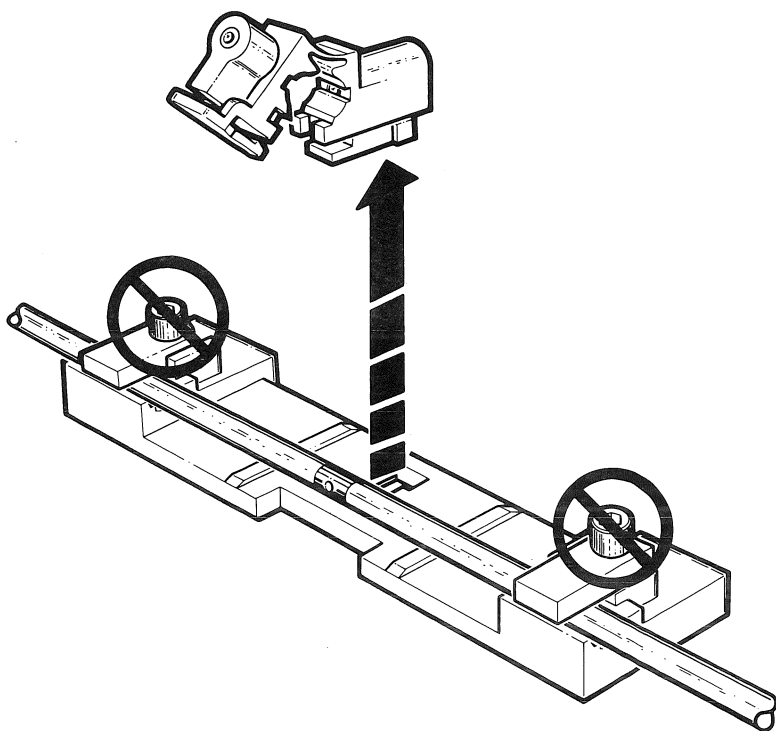
Drill from both sides of drill guide.

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



Removing Drill Guide

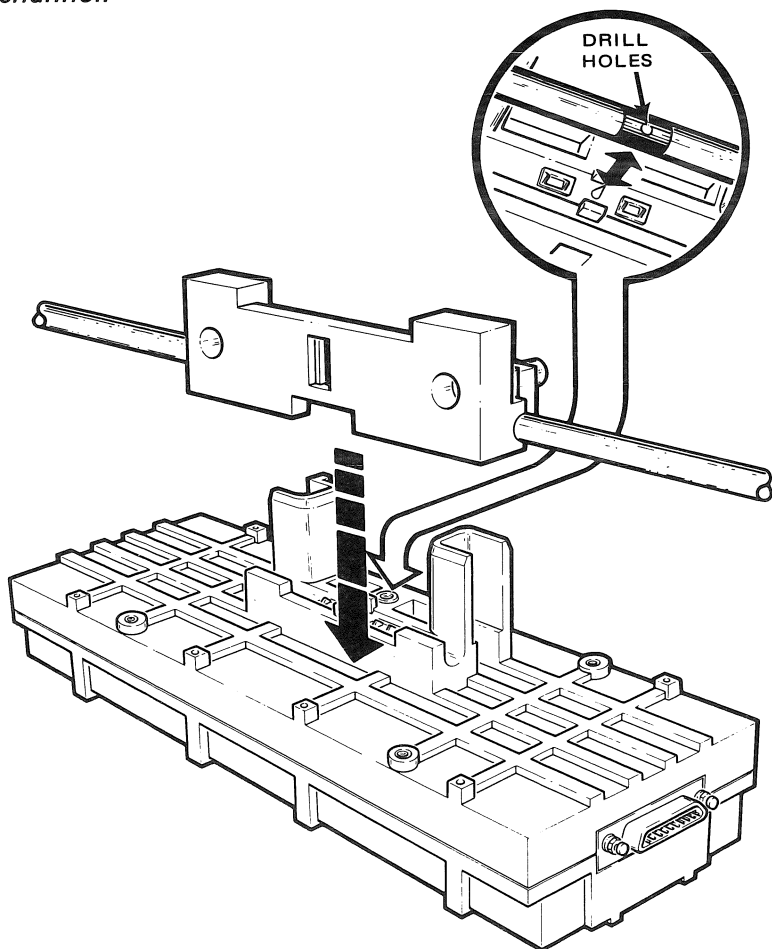
CAUTION: Do not loosen cable clamps.



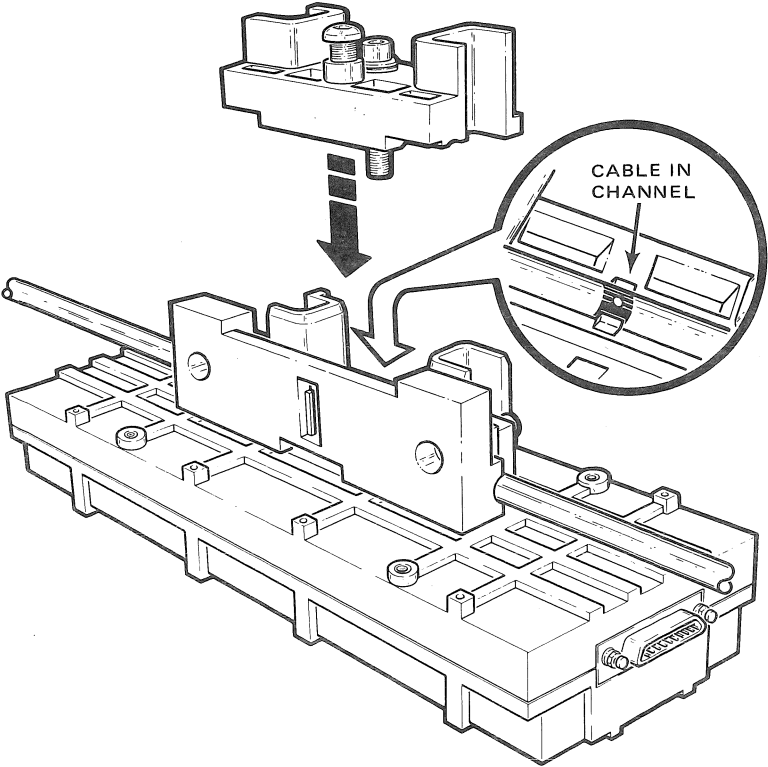
Installing Cable onto Transceiver

Push cable into coaxial cable channel.

Note: Drill holes must line up with probe in cable channel.

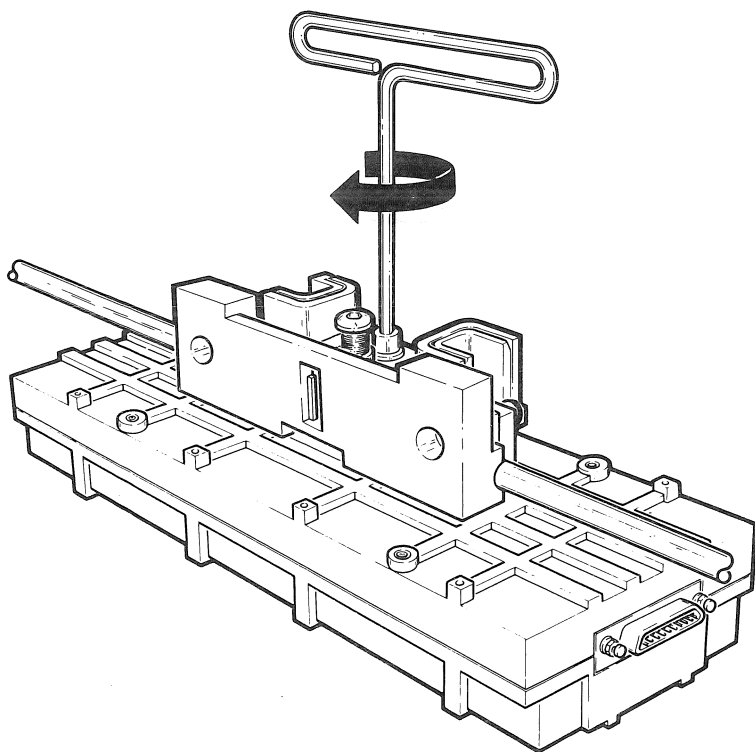


Installing Clamp Block



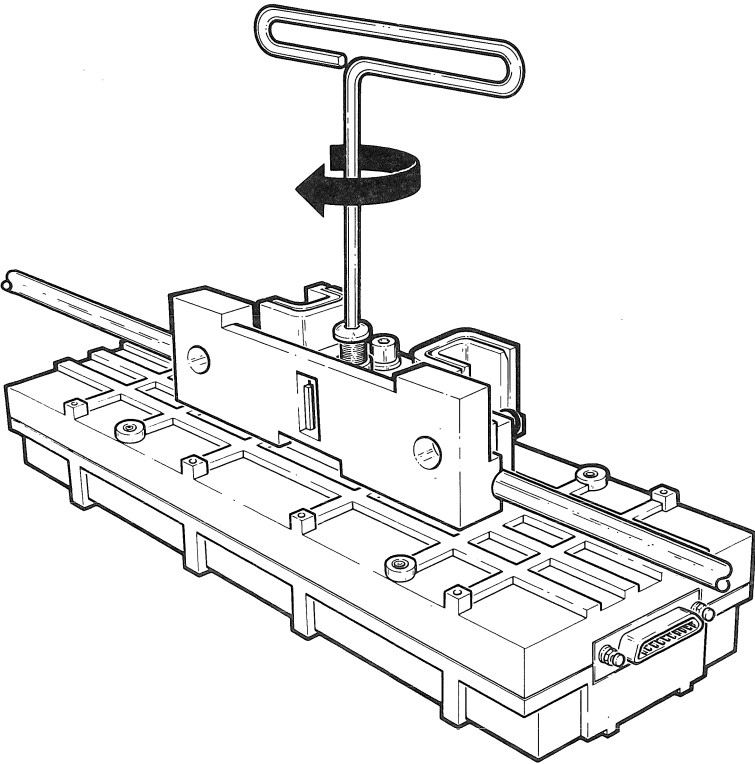
Tightening Clamp Block Screw

Tighten clamp block screw with hex wrench.



Tightening Probe Screw

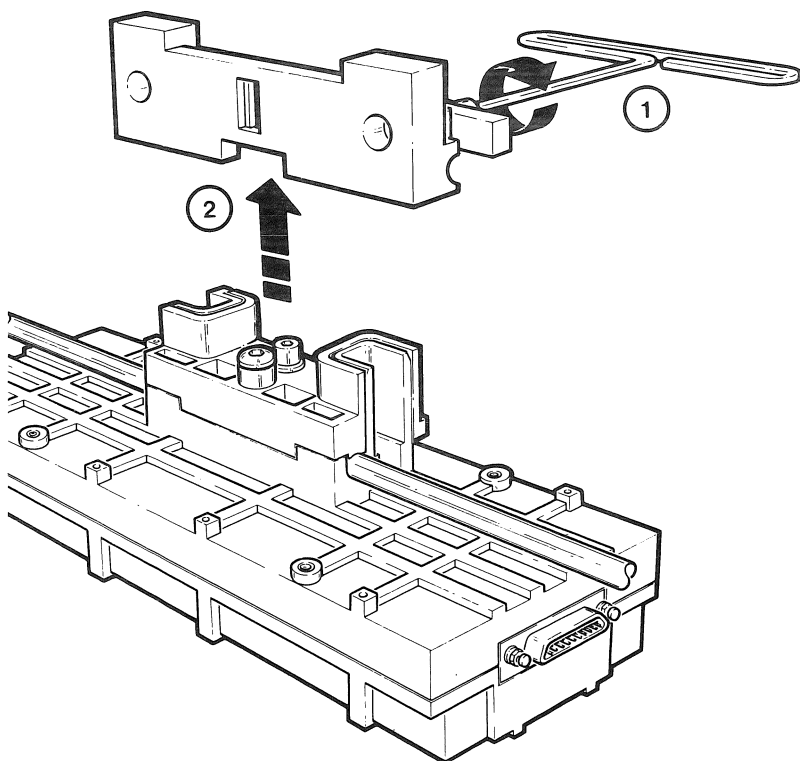
Tighten probe screw with hex wrench.



Removing Cable Guide

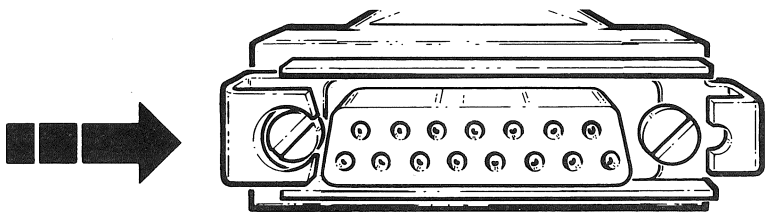
Loosen cable clamps with hex wrench. ①

Remove cable guide. ②



Opening Connector Latch

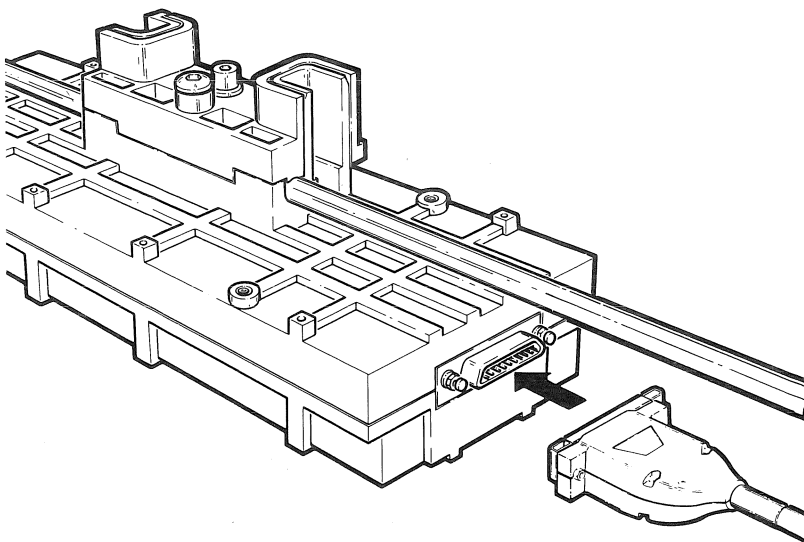
Slide cable connector latch to open position.



TRANSCIEVER CABLE CONNECTOR
IN OPEN POSITION

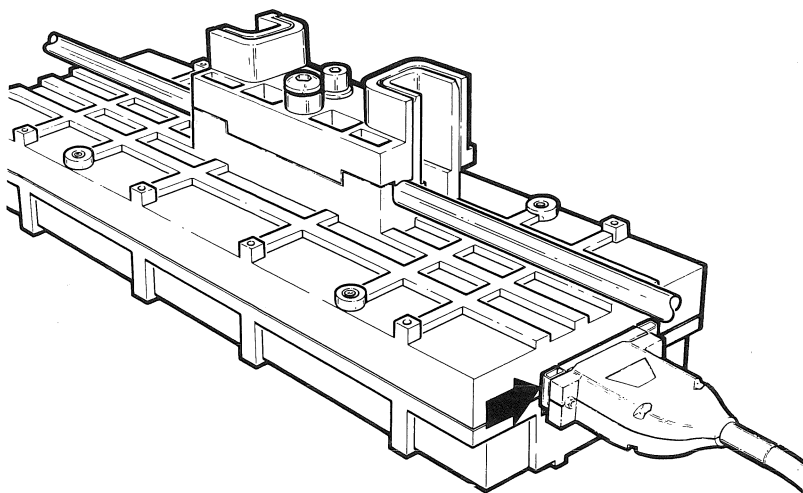
Attaching Transceiver Cable

Attach transceiver cable to transceiver cable connector.



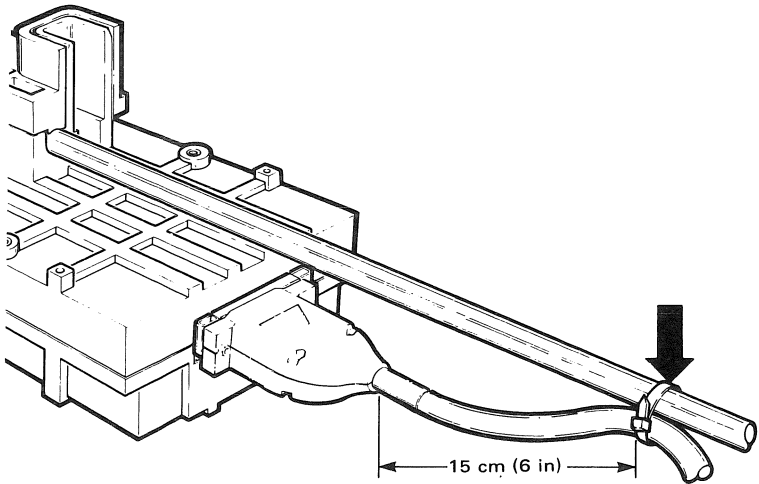
Closing Connector Latch

Slide cable connector latch to closed position, and check that connection is secure.



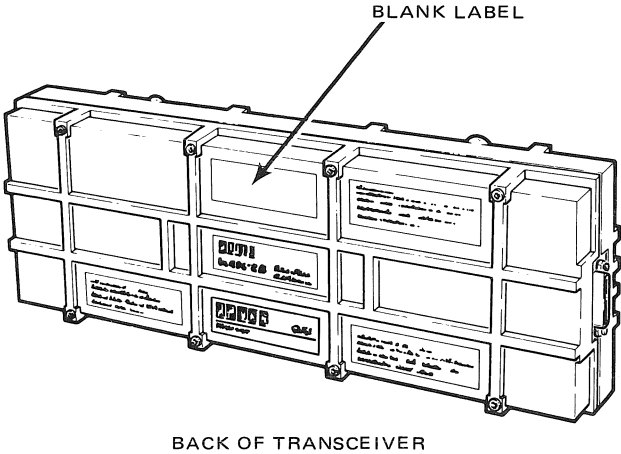
Connecting Cables

Connect transceiver cable to coaxial cable at 15 cm (6 in) from transceiver cable connector.



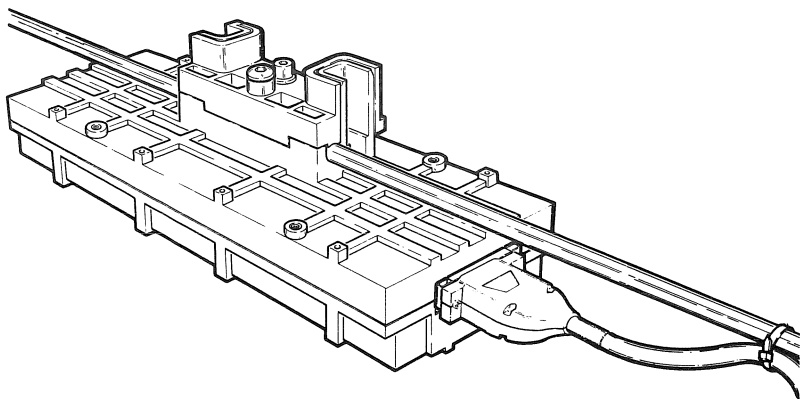
Labeling Transceiver

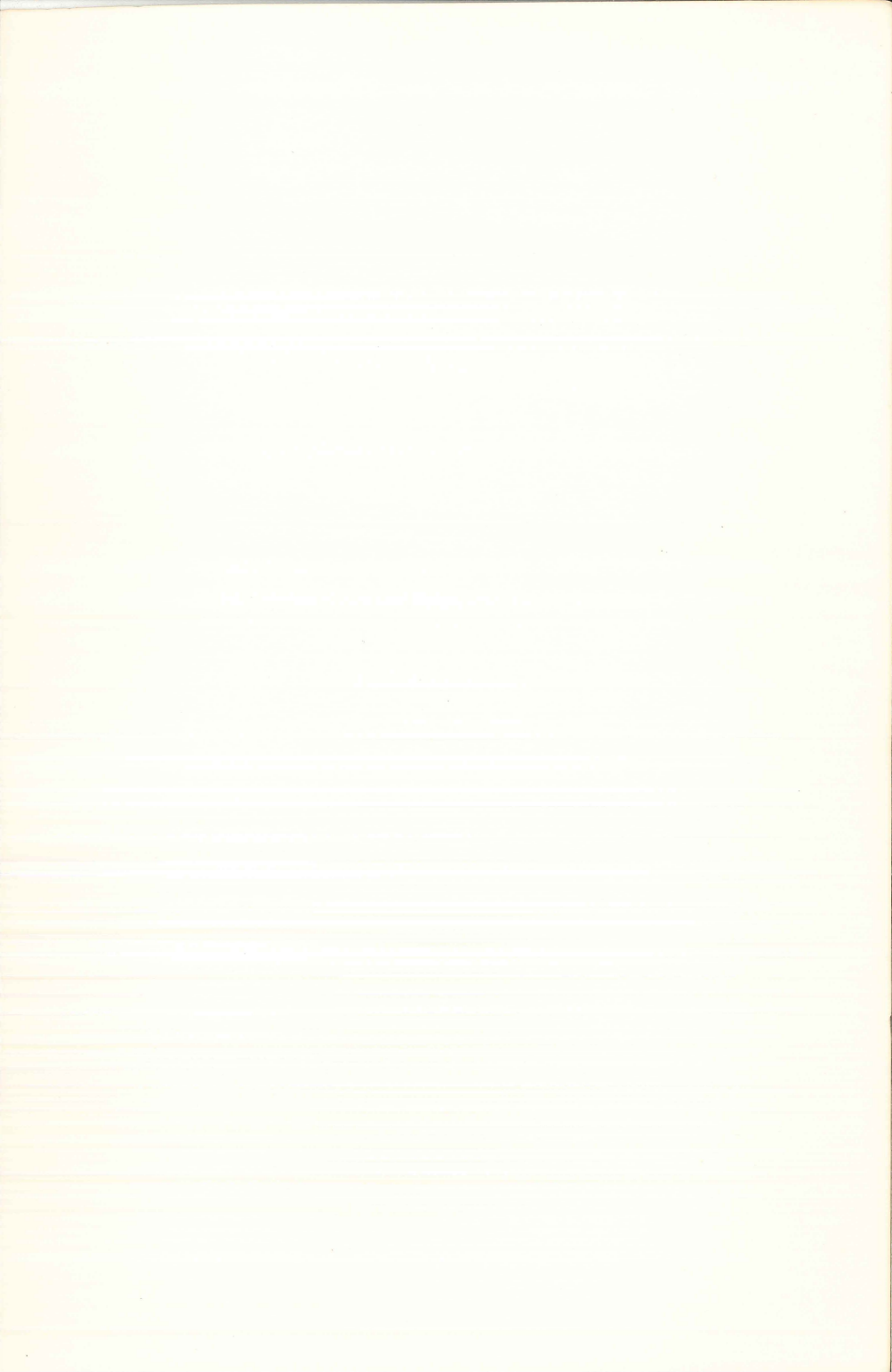
Blank label is for your use to indicate additional information about transceiver.



Congratulations!

You have completed installation of the H4000
DIGITAL Ethernet Transceiver.





Digital Equipment Corporation • Bedford, MA 01730