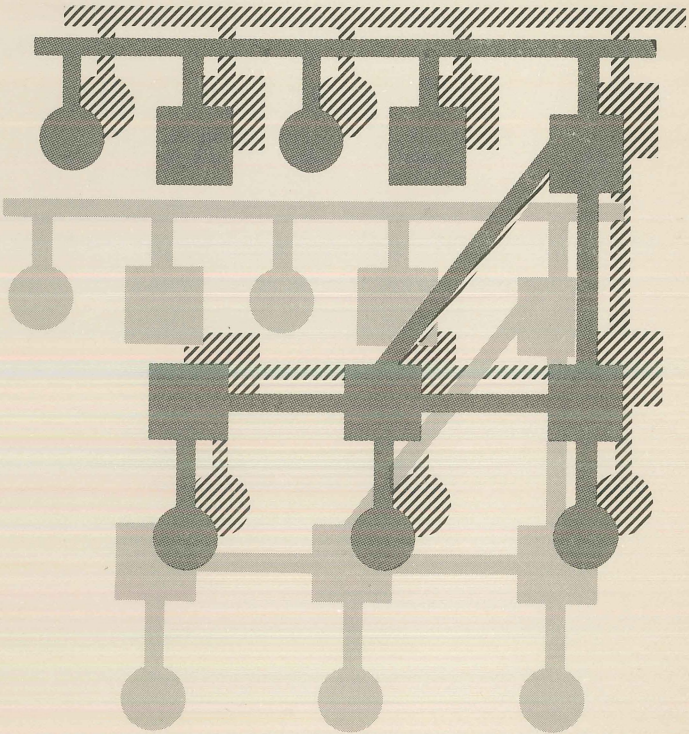
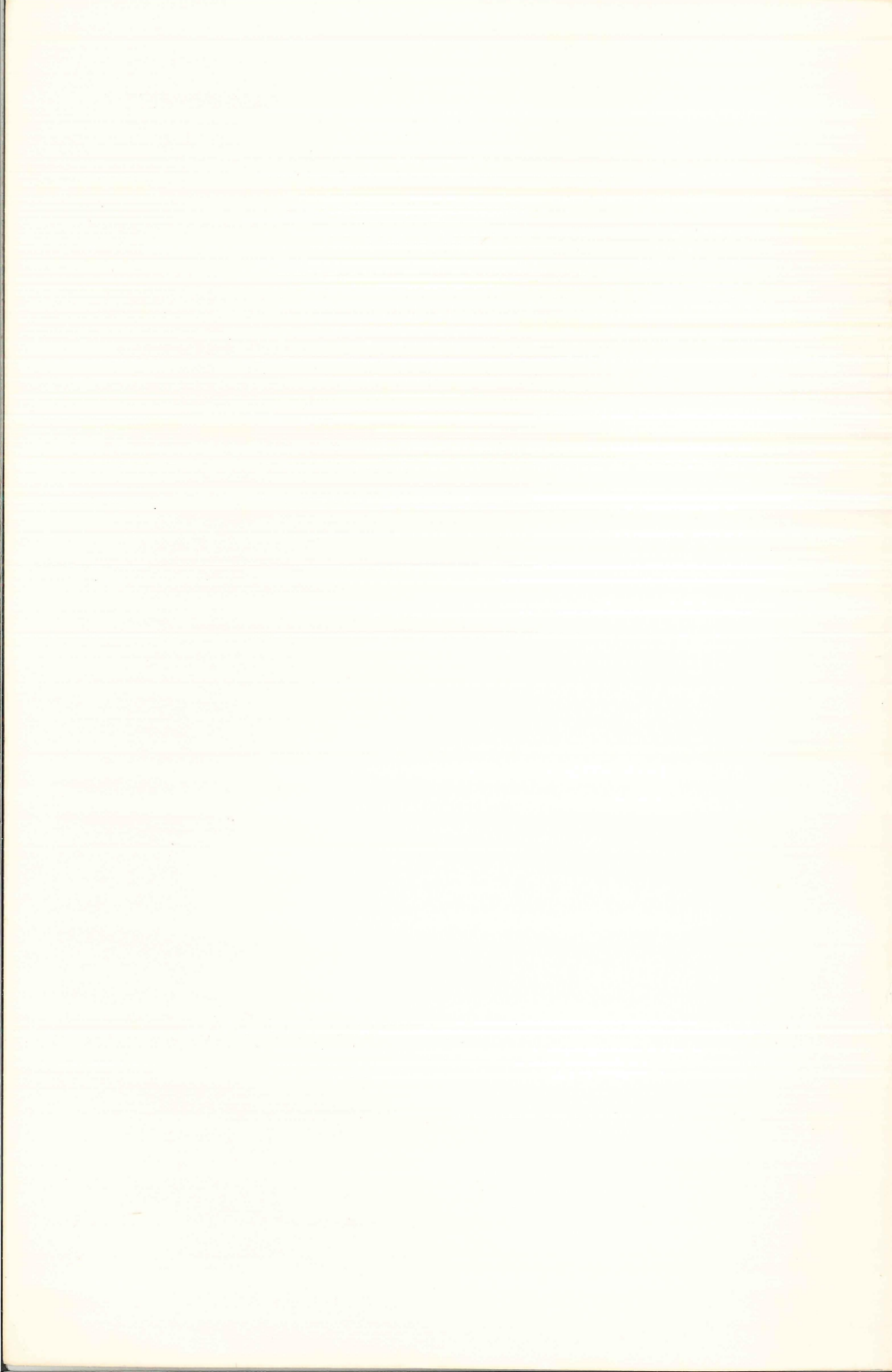


# H4000 DIGITAL Ethernet Transceiver

## Installation Manual





# **H4000**

# **DIGITAL Ethernet Transceiver**

## **Installation Manual**

Prepared by  
Educational Services  
of  
Digital Equipment Corporation

2nd Edition, June 1984

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RSTS

RSX

UNIBUS

VAX

VMS

VT

Work Processor

## **If You Need Help:**

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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

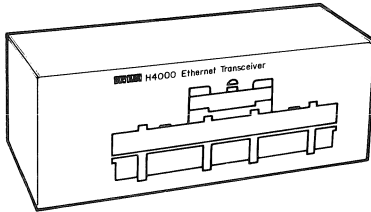
## **Note:**

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

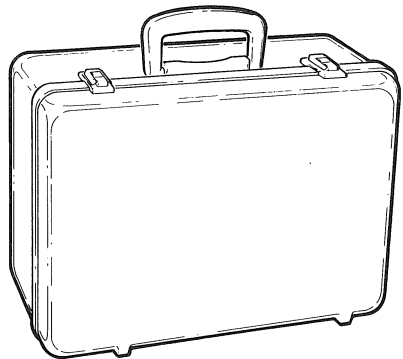
**CAUTION: Not for installation in air ducts or plenums. For installation in other environmental air handling spaces, use only with cable classified by Underwriters Laboratories, Inc. as to fire and smoke characteristics in accordance with Section 725-2(b) of the National Electric Code.**

## **You Should Have These Items:**



**H4000 TRANSCEIVER  
(IN SHIPPING PACKAGE)**

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

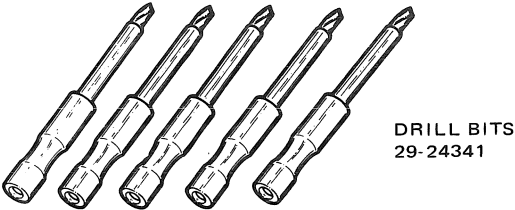
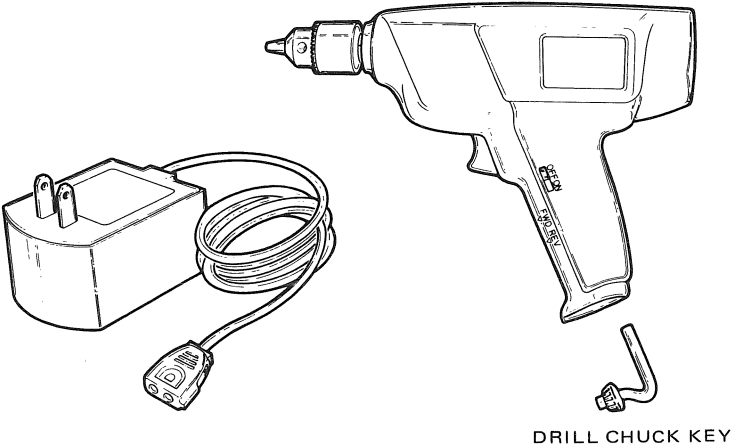


# Installation Kit Contents

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

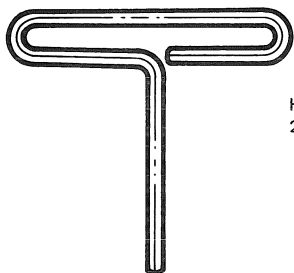
DRILL AND DRILL CHARGER 29-24337





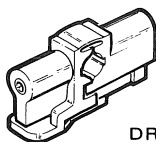
## Installation Kit Contents (continued)

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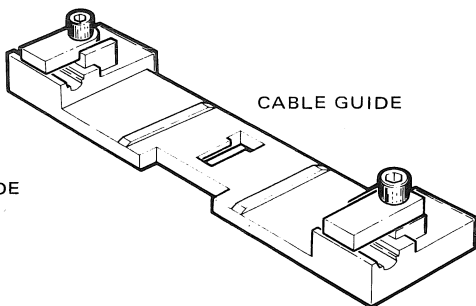


HEX WRENCH  
29-24340

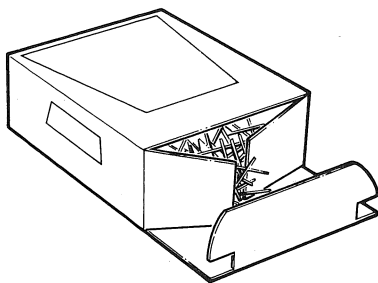
DRILLING FIXTURE 29-24338  
(INCLUDES DRILL GUIDE  
AND CABLE GUIDE)



DRILL GUIDE

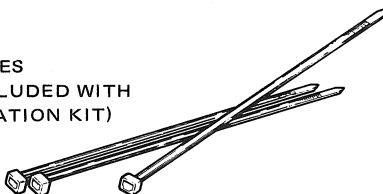


CABLE GUIDE



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

CABLE TIES  
(NOT INCLUDED WITH  
INSTALLATION KIT)



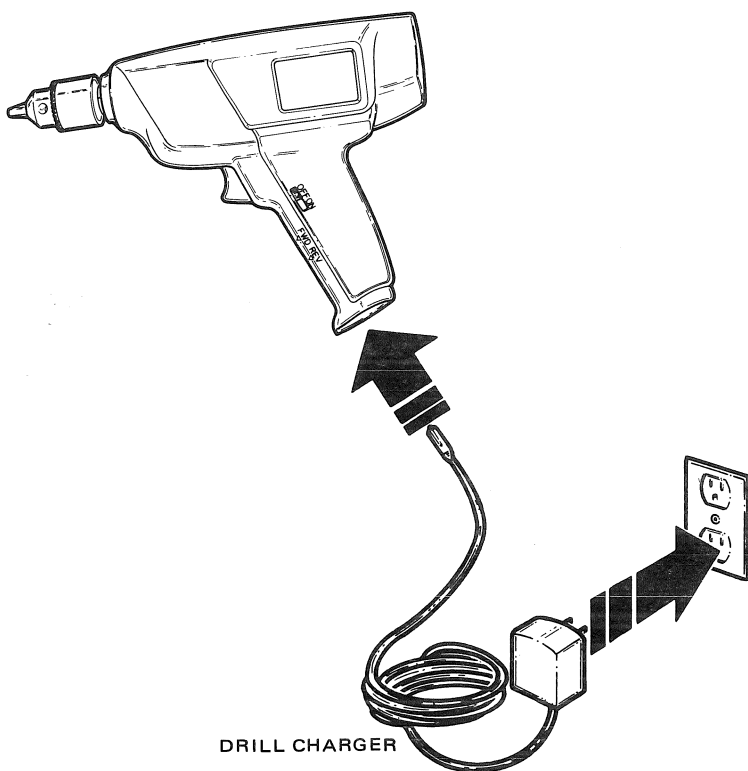
# Checking Drill

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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.**

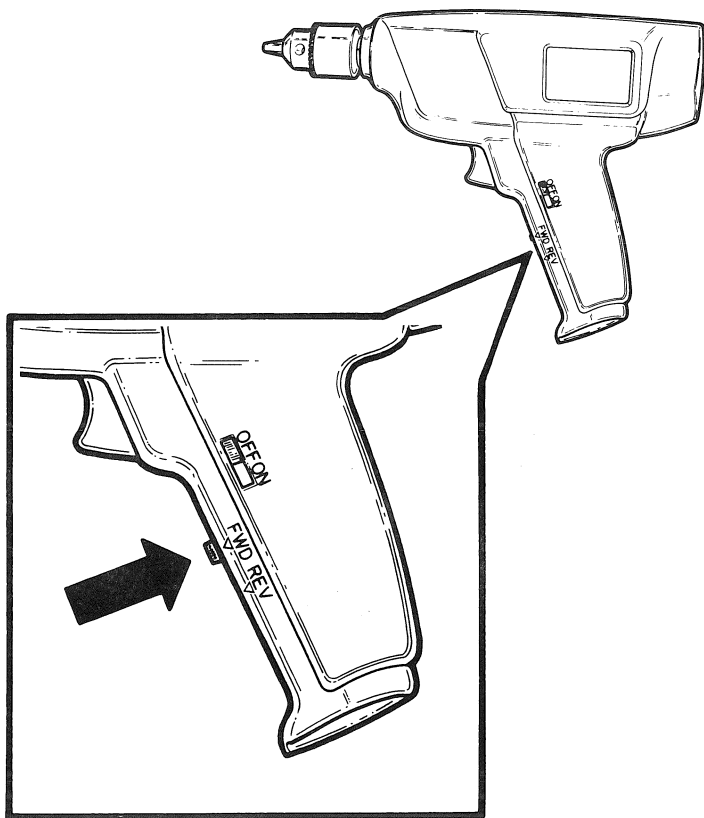


## Checking Drill (continued)

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Put drill in "FWD" (forward) position.

Turn drill on when ready to use.

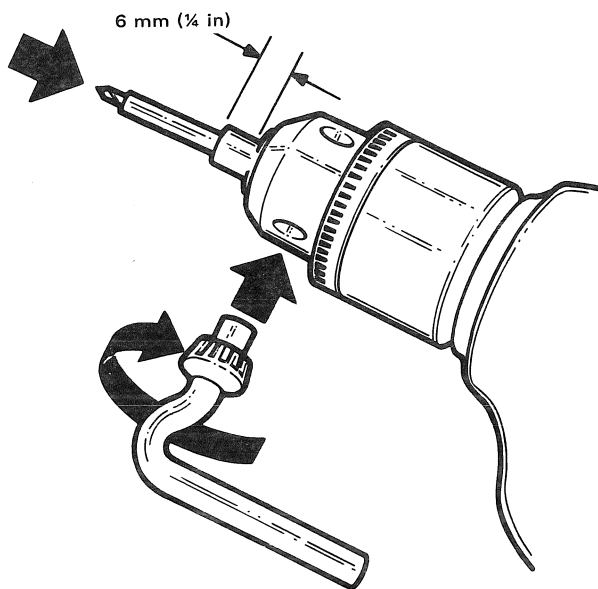


# Installing Drill Bit

---

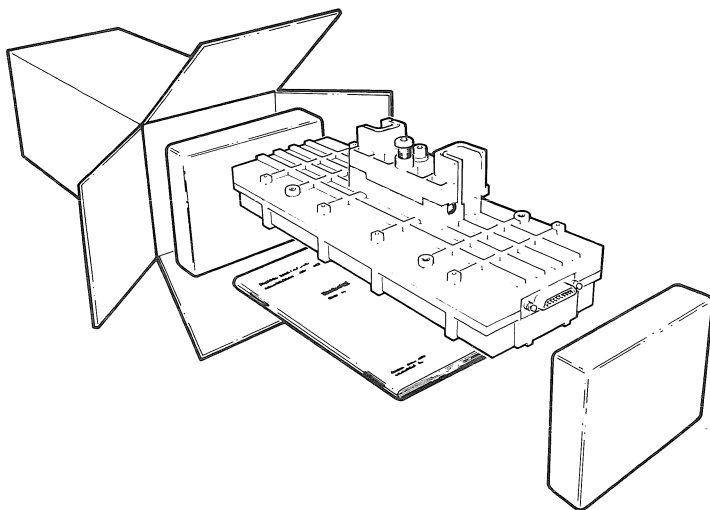
Install drill bit so that 6 mm (1/4 in) of bit insulation protrudes from drill.

Tighten with chuck key.

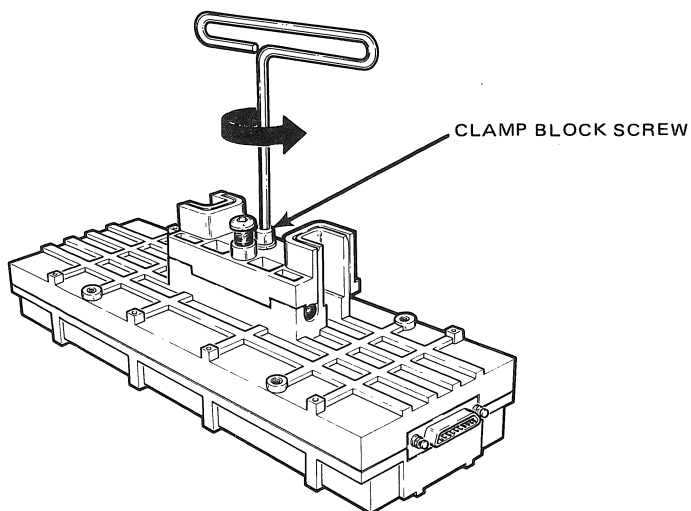


# Unpacking Transceiver

---



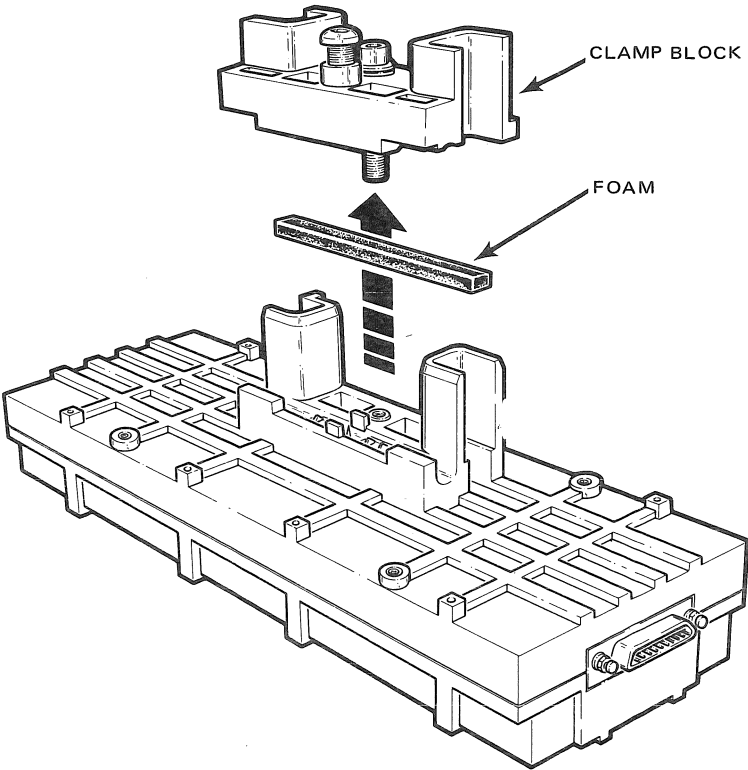
Loosen clamp block screw with hex wrench.



# Unpacking Transceiver (continued)

---

Remove clamp block and foam.

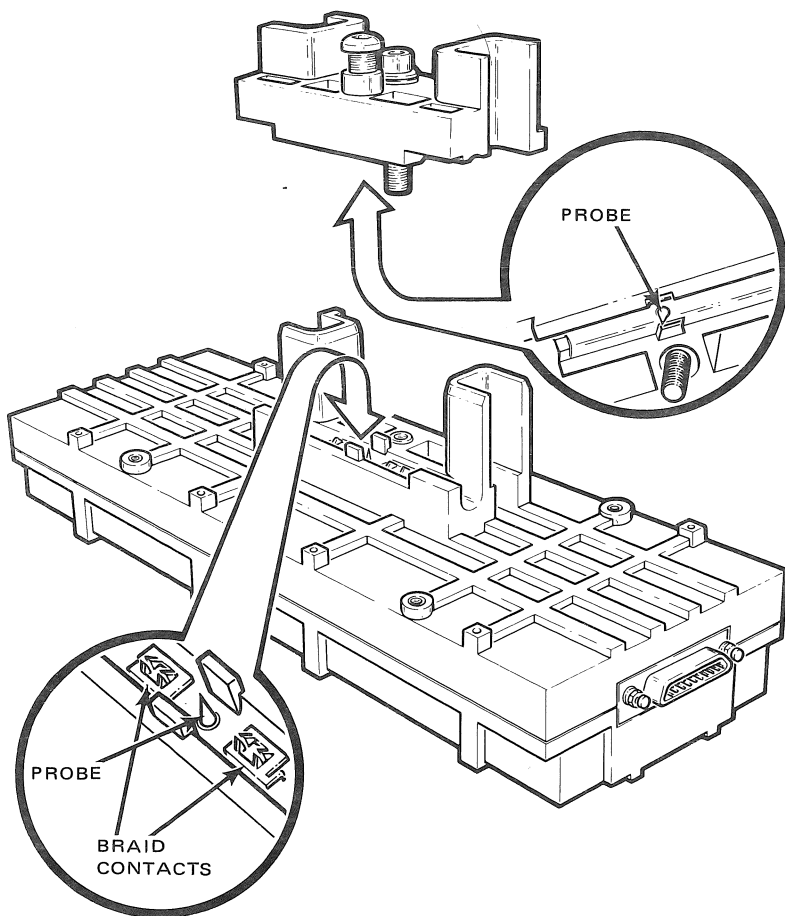


# Inspecting Transceiver

---

Replace transceiver if probes are broken or bent.

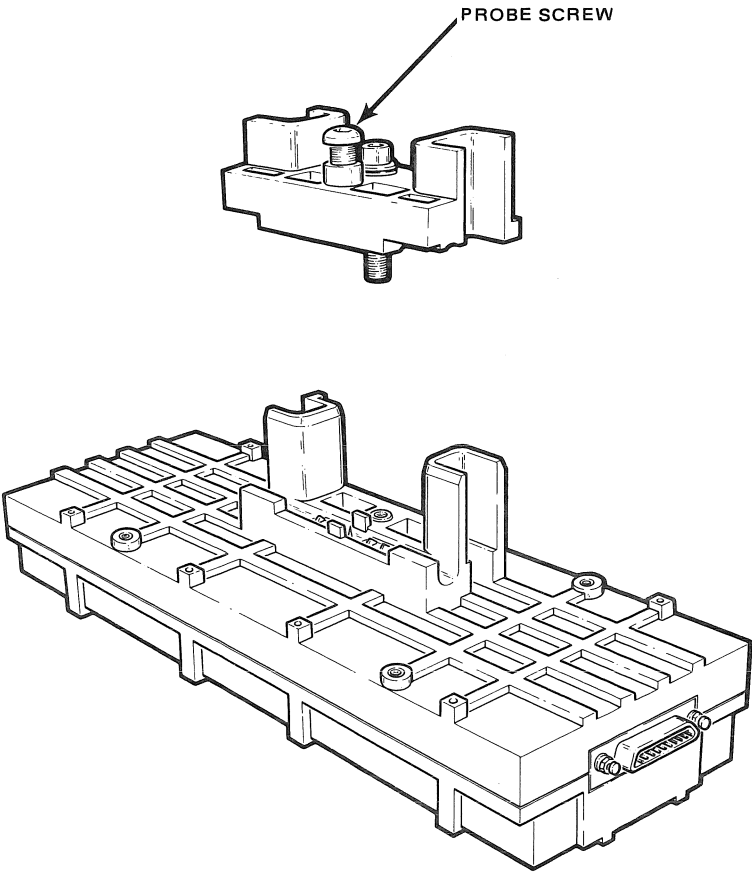
Replace braid contacts if broken or bent.



# Inspecting Transceiver (continued)

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

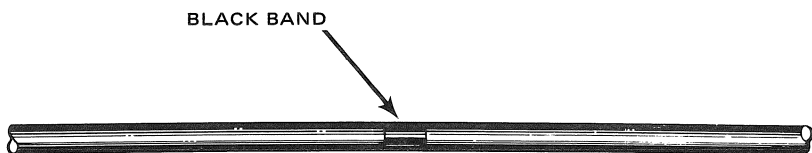




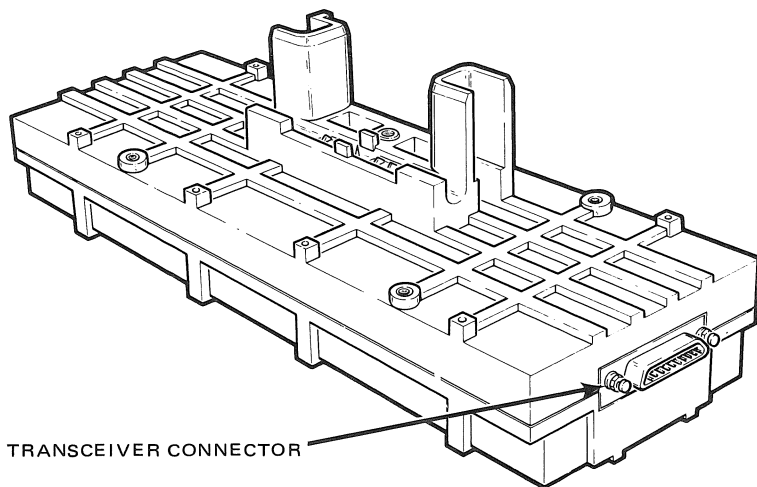
## Choosing Transceiver Direction

---

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



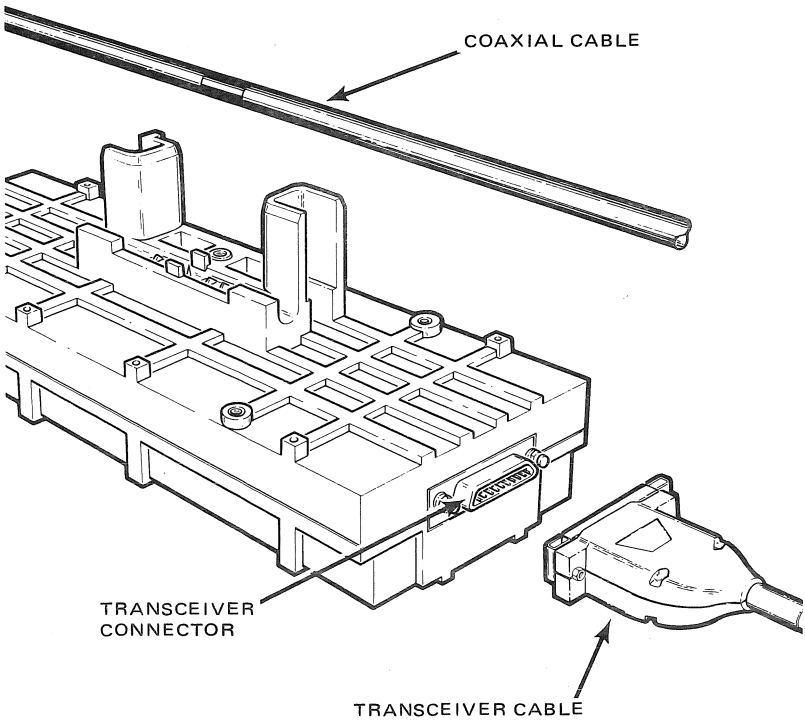
Find transceiver connector (may be located at either end of transceiver).



# Positioning Transceiver

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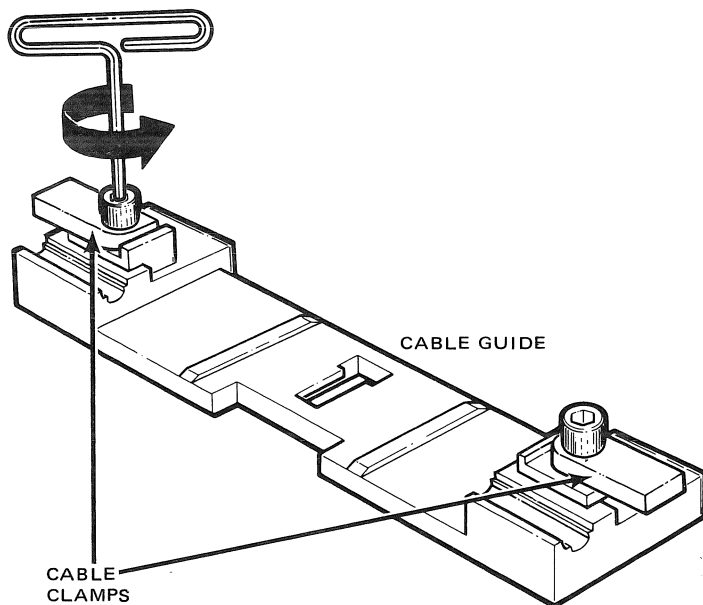
Place transceiver parallel to coaxial cable so that transceiver connector points towards transceiver cable.



## Opening Cable Guide

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Loosen cable clamps on cable guide with hex wrench.



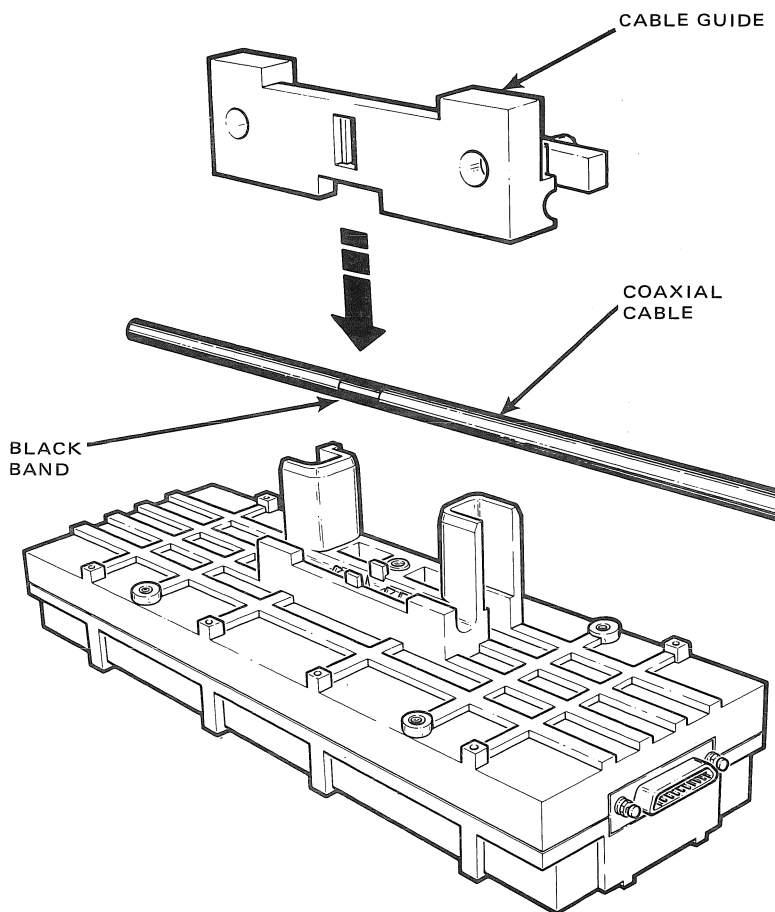
## Installing Cable Guide

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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.*



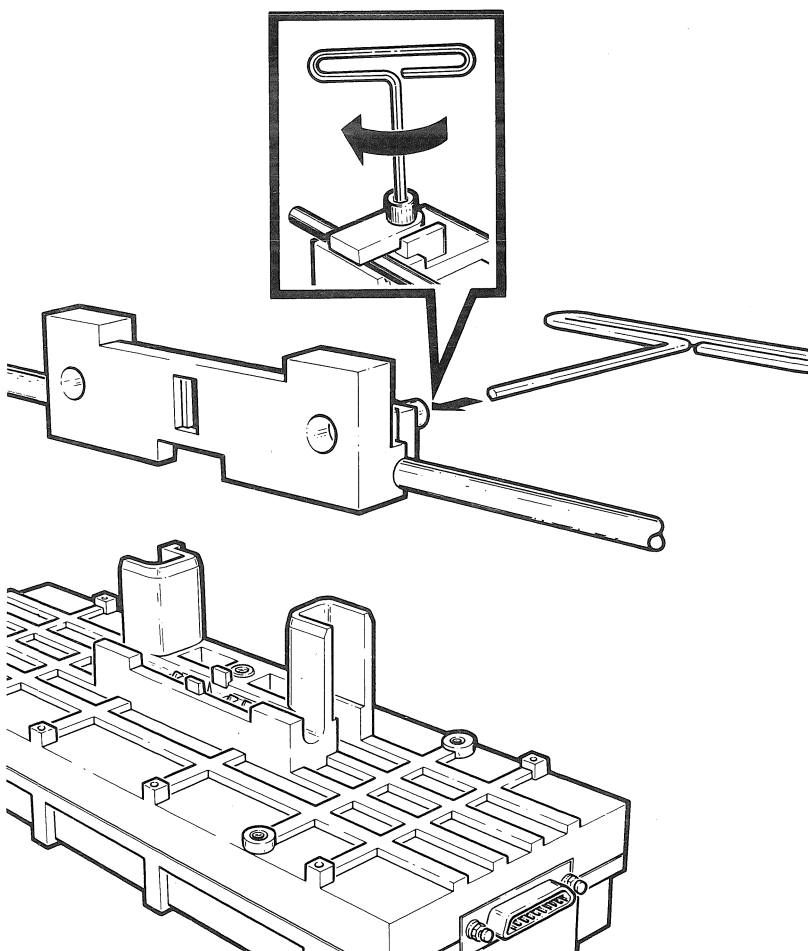
## Tightening Cable Guide

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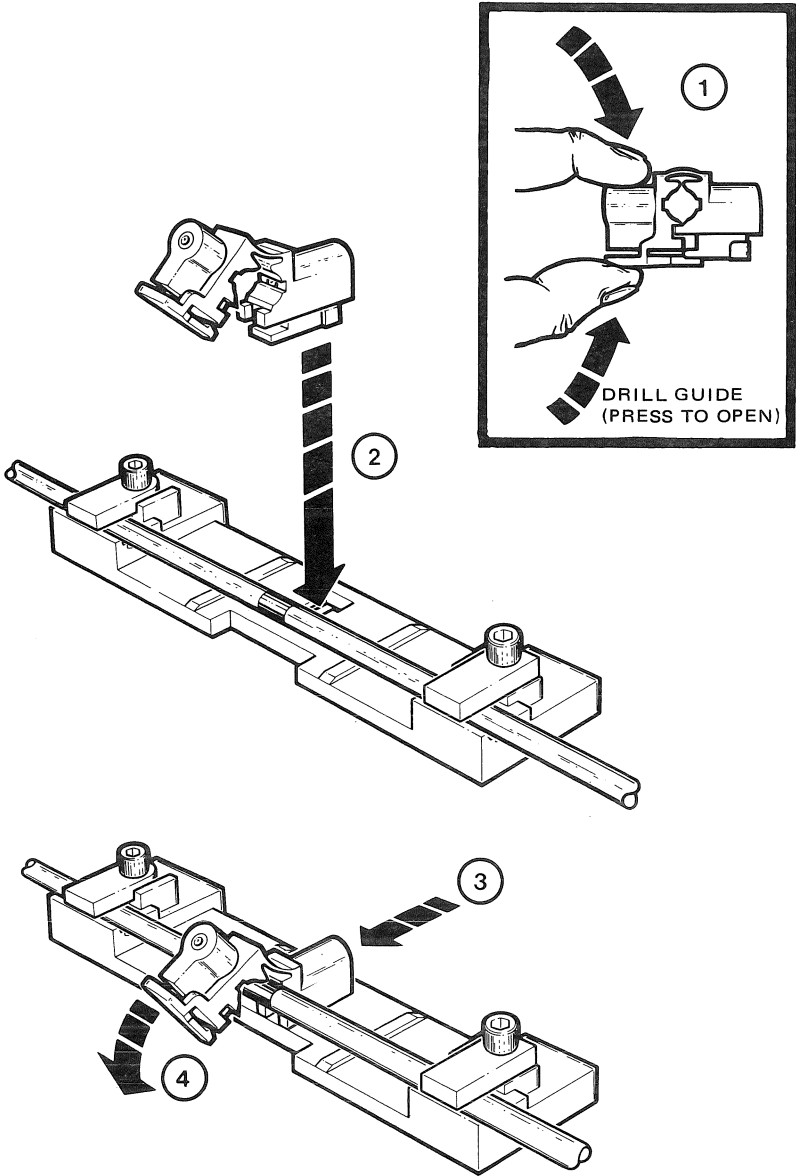
Close cable clamps over cable.

Securely tighten clamps with hex wrench.

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



# Installing Drill Guide

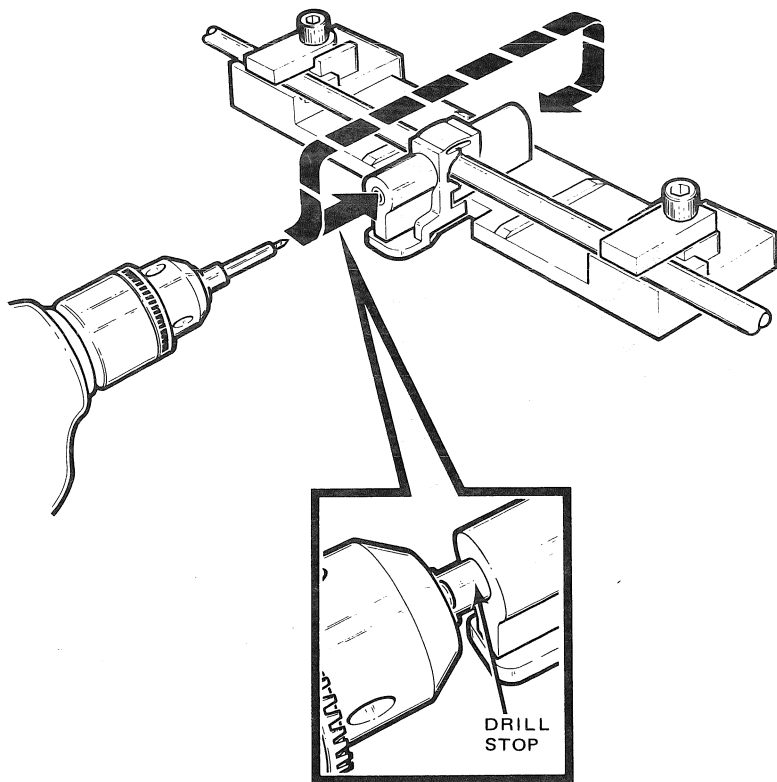


## Drilling Cable

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Drill from both sides of drill guide.

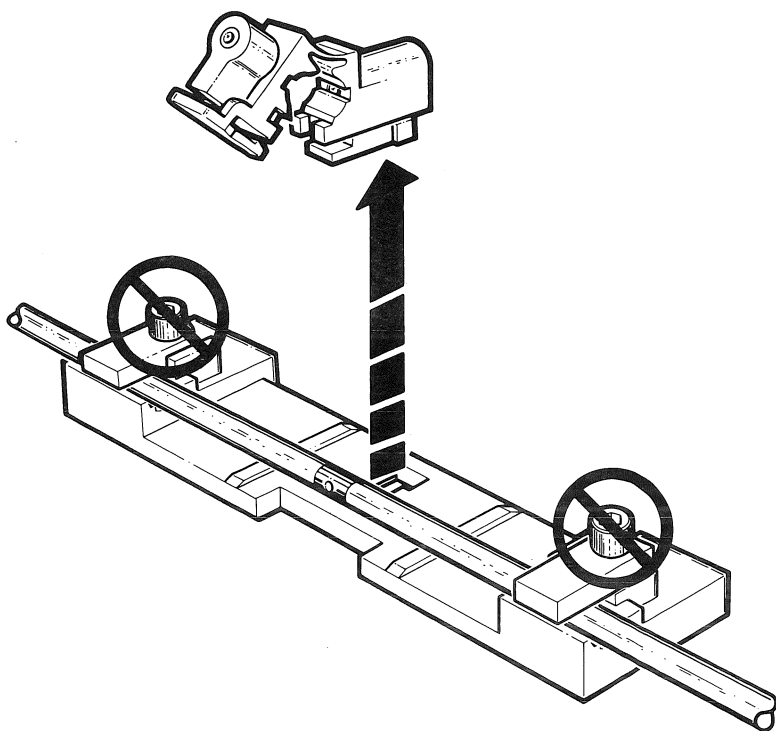
Drill all the way in until drill bit stops against drill guide.



## Removing Drill Guide

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**CAUTION:** Do not loosen cable clamps.



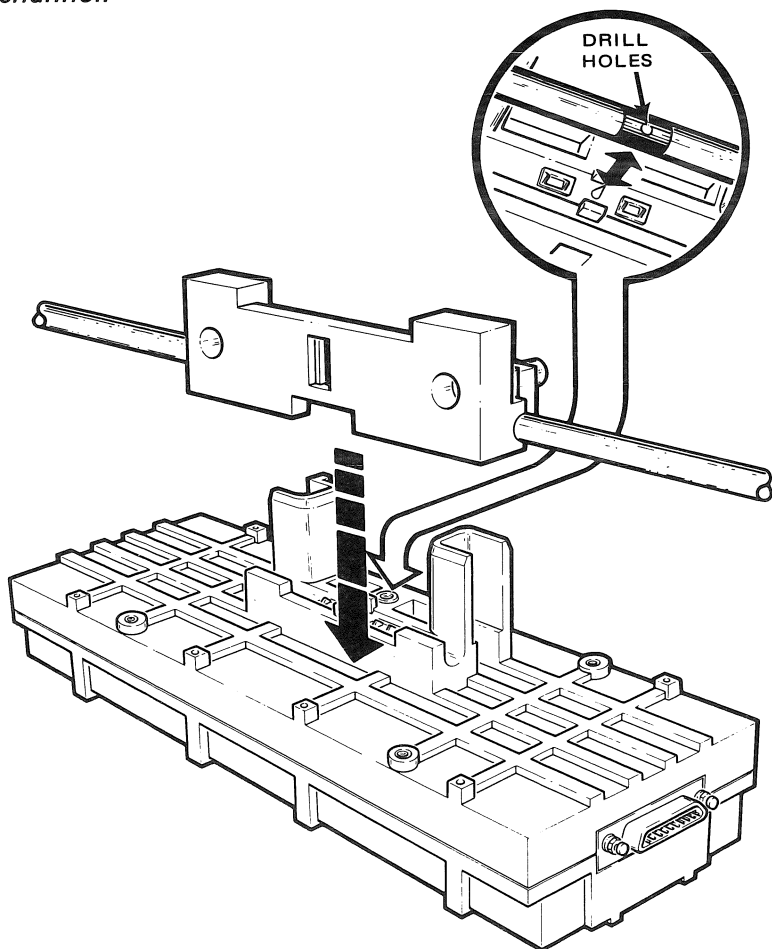


## Installing Cable onto Transceiver

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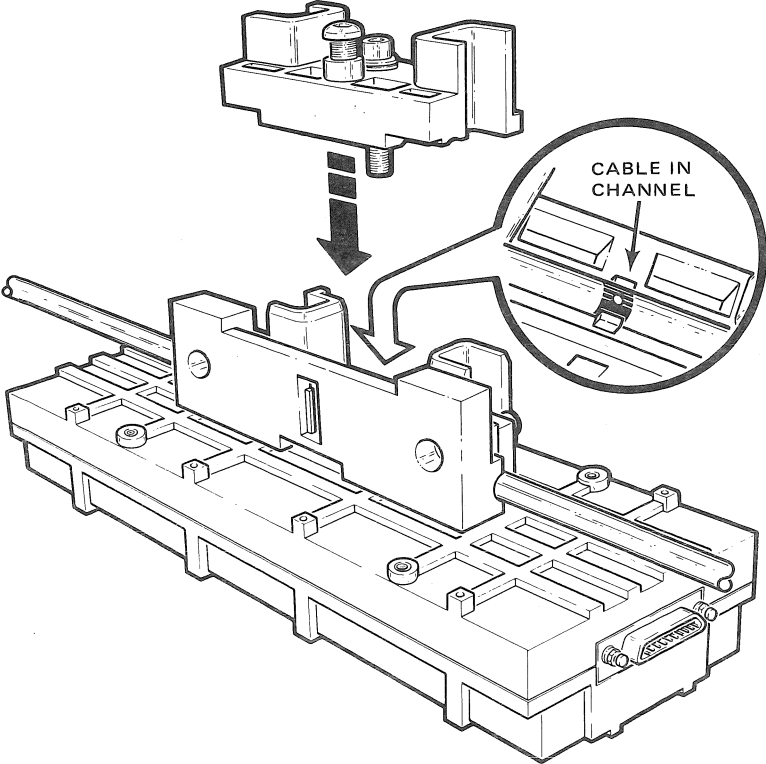
Push cable into coaxial cable channel.

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



# Installing Clamp Block

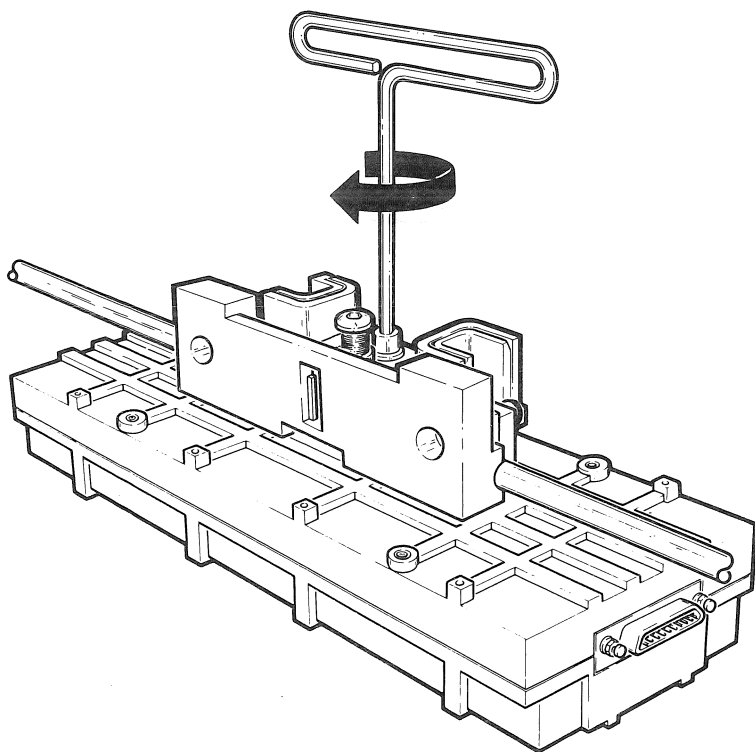
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## **Tightening Clamp Block Screw**

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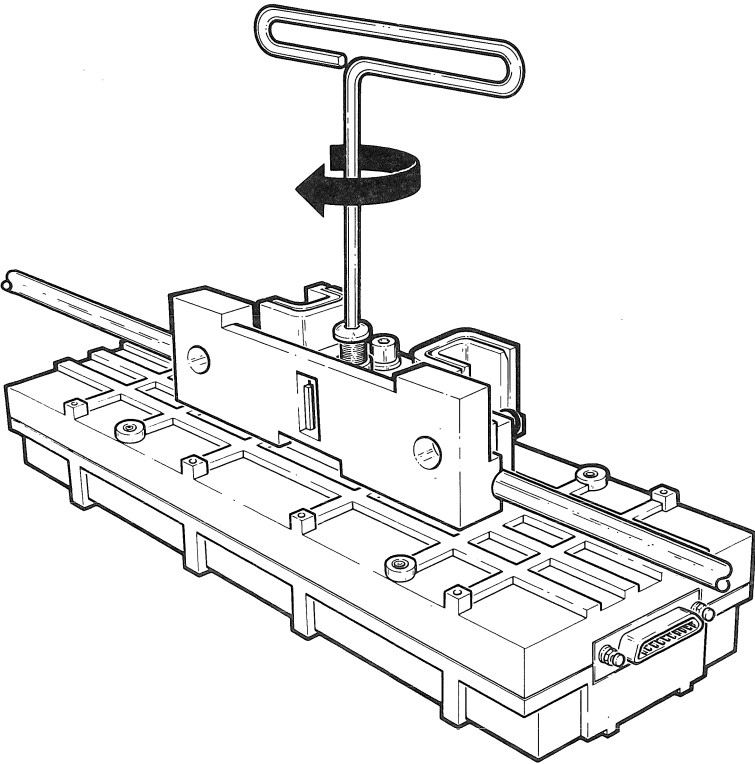
Tighten clamp block screw with hex wrench.



# Tightening Probe Screw

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Tighten probe screw with hex wrench.

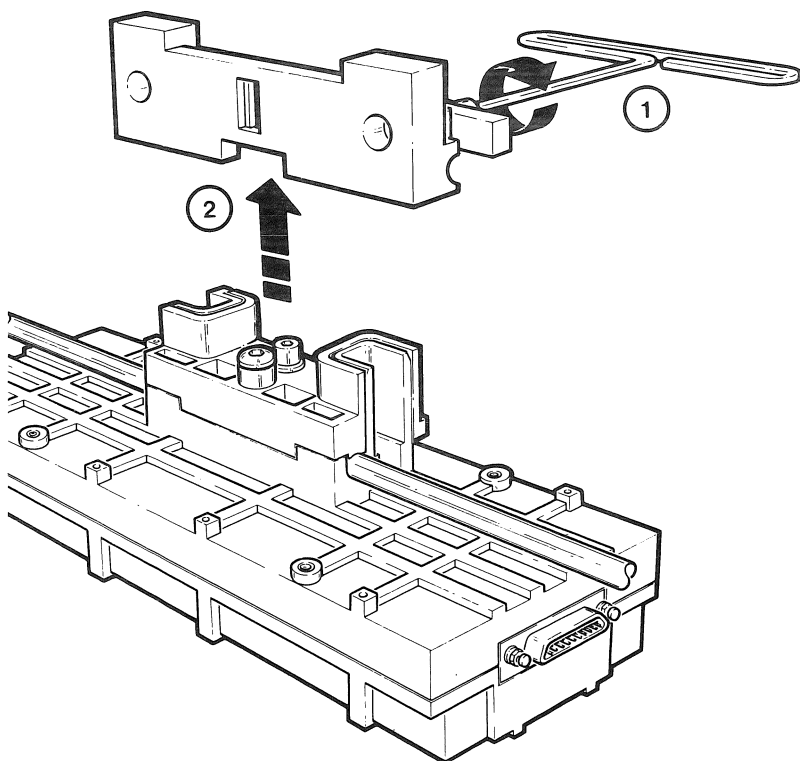


## Removing Cable Guide

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Loosen cable clamps with hex wrench. ①

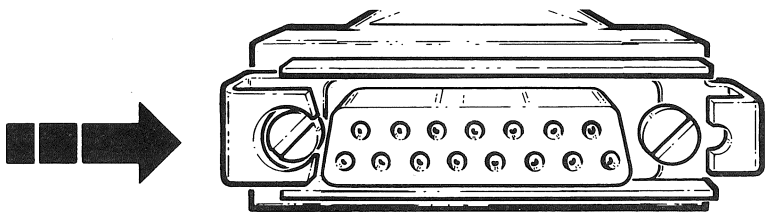
Remove cable guide. ②



# Opening Connector Latch

---

Slide cable connector latch to open position.

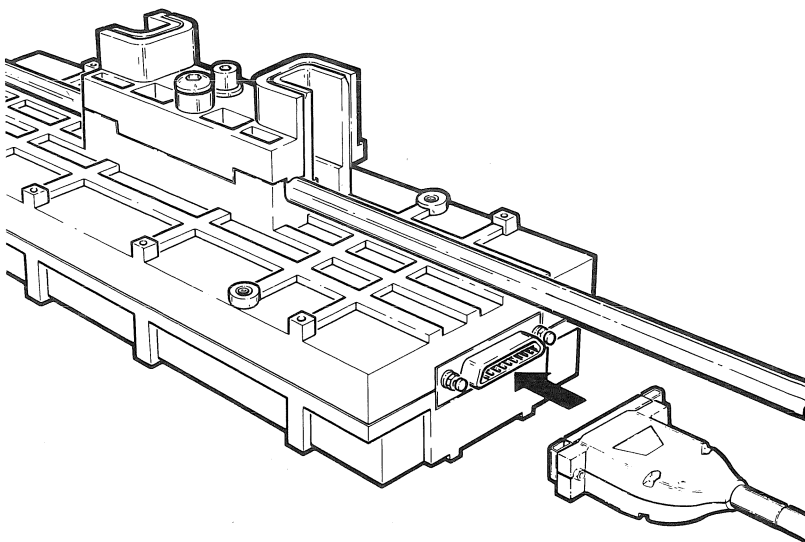


TRANSCIEVER CABLE CONNECTOR  
IN OPEN POSITION

## Attaching Transceiver Cable

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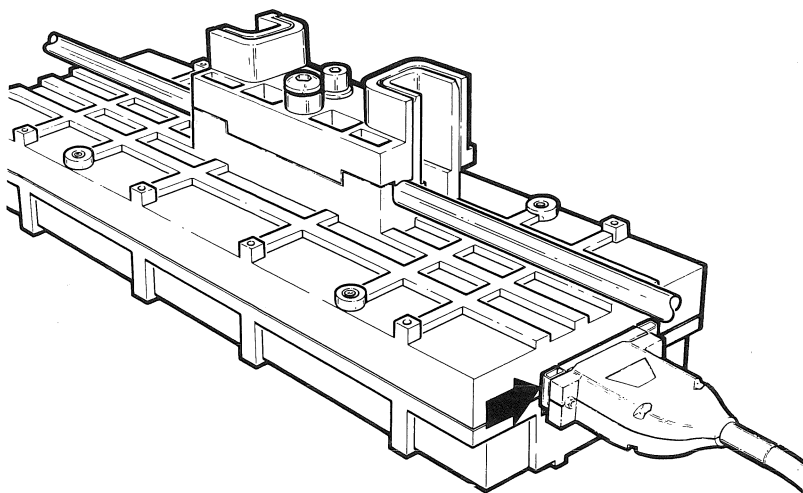
Attach transceiver cable to transceiver cable connector.



## Closing Connector Latch

---

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

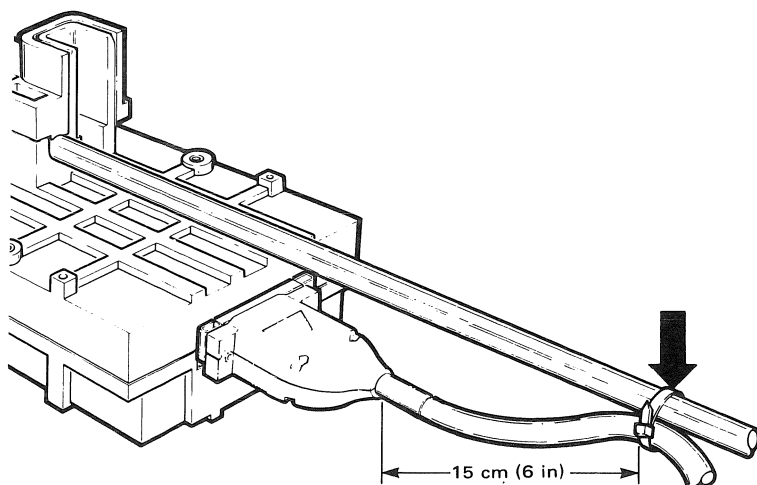




## Connecting Cables

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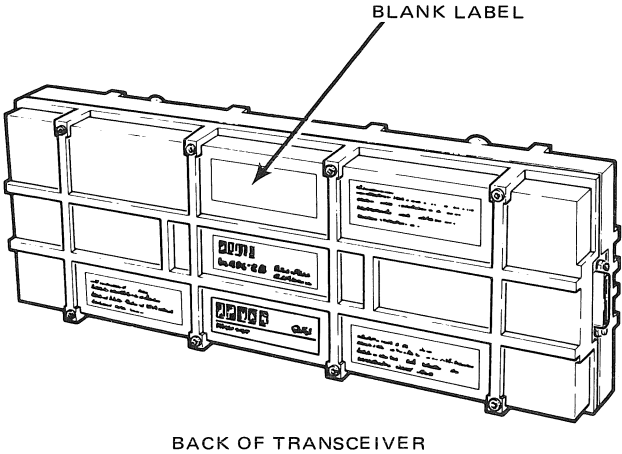
Connect transceiver cable to coaxial cable at 15 cm (6 in) from transceiver cable connector.



# Labeling Transceiver

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



# Congratulations!

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You have completed installation of the H4000  
DIGITAL Ethernet Transceiver.

