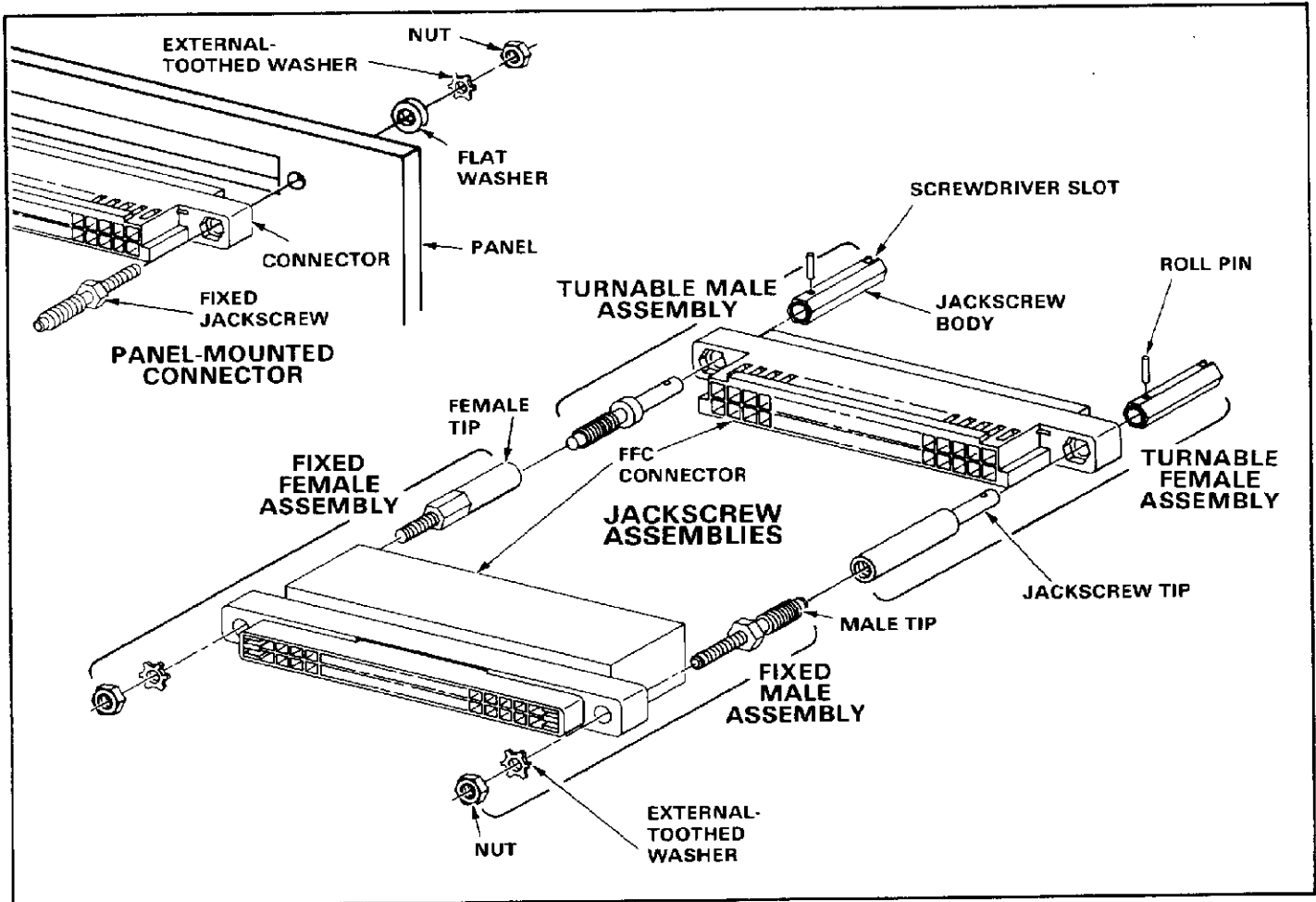


**AMP**AMP INCORPORATED  
Harrisburg, Pa. 17105**AMP ★ FLEXIBLE FLAT CABLE (FFC)  
JACKSCREW ASSEMBLIES AND  
LATCH-TYPE HARDWARE**

Instruction Sheet

**IS 6557**

RELEASED 10 • 16 • 81

**Fig. 1****1. INTRODUCTION**

This instruction sheet covers the assembly procedures of the AMP FFC Connector Jackscrew Assemblies and Latch-Type Hardware. Read these instructions thoroughly before assembling the jackscrews and hardware.

**NOTE***All dimensions on this sheet are in inches.***2. DESCRIPTION (Figures 1 and 3)**

The jackscrew assemblies and latch-type hardware are used with connectors for panel-mounted and free-hanging applications, connector-to-printed circuit (pc) board applications, and connector-to-pin header applications.

There are two types of jackscrew assemblies, fixed and turnable. The fixed assemblies consist of a body threaded (internally or externally) at both ends, an external-toothed washer (some assemblies also have flat washers), and a hexagonal nut. The fixed type is

designed to be rigidly attached to a stationary component (connector, pc board, or panel).

The turnable jackscrew assemblies consist of either a full or partial hexagonal-shaped body, a roll pin, and a tip. The tip is threaded internally (female) or externally (male) at one end. The turnable type is attached to the free-hanging connector, and will rotate freely when fully assembled.

The flexible latch hardware allows quick connect/disconnect applications. The hardware is available with broad or narrow latches for polarizing connectors. The flexible latches consist of two lengths. The shorter type mates with fixed latches attached to a connector or posts in a pc board. The longer type mates with posted headers installed in a pc board. See Figure 3.

**NOTE**

*The jackscrew assemblies and latch-type hardware are available for all FFC connectors with mounting ears, except the printed circuit card edge connectors.*

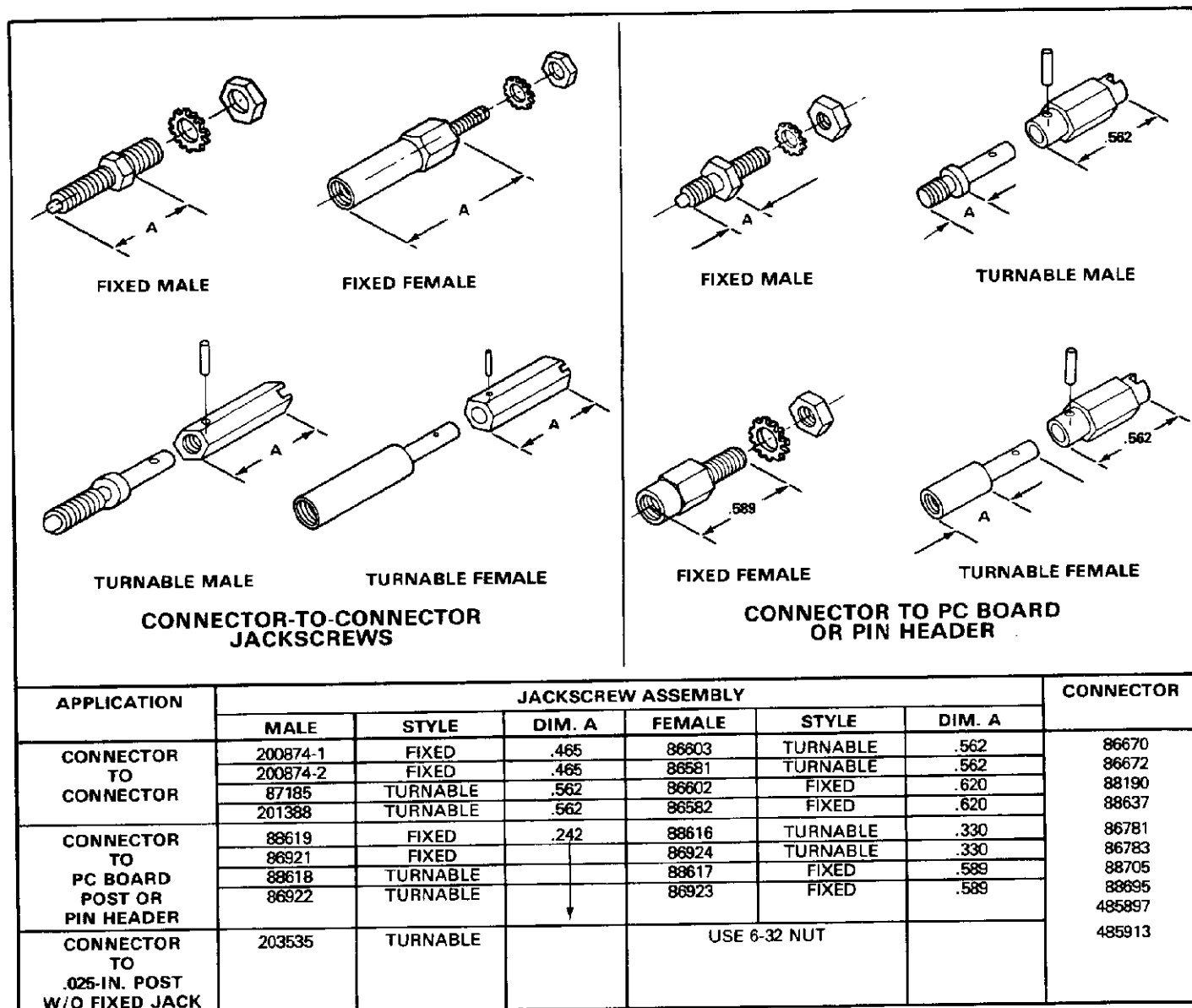


Fig. 2

### 3. INSTALLING JACKSCREW ASSEMBLIES

Refer to the chart in Figure 2 and select mating turnable and fixed jackscrew assemblies needed for the application and proceed as follows:

#### A. Fixed and Turnable Jackscrews

The following procedures are for installing jackscrews when polarization of connectors is necessary. The jackscrews can also be installed in a non-polarizing method.

1. Insert jackscrew tip of turnable female assembly through hexagonal hole in mounting ear of connector.
2. Install jackscrew body over tip and secure with roll pin using parallel pliers or similar type tool. Repeat these procedures for the turnable male assembly.

#### NOTE

AMP manufactures Assembly Tool 91016, which inserts a roll pin into jackscrews. Refer to AMP Instruction Sheet IS 7126 for specific insertion instructions.

3. Install long-threaded side of fixed male assembly into hexagonal hole of mounting ear of connector and secure on opposite side of mounting ear with external-toothed washer and nut.

4. Insert threaded side of fixed female assembly into connector mounting ear and secure with hardware.

#### NOTE

When installing fixed jackscrews on a stationary connector on a panel, make sure the flat washer is installed behind the panel between the external-toothed washer and panel. See Figure 1.

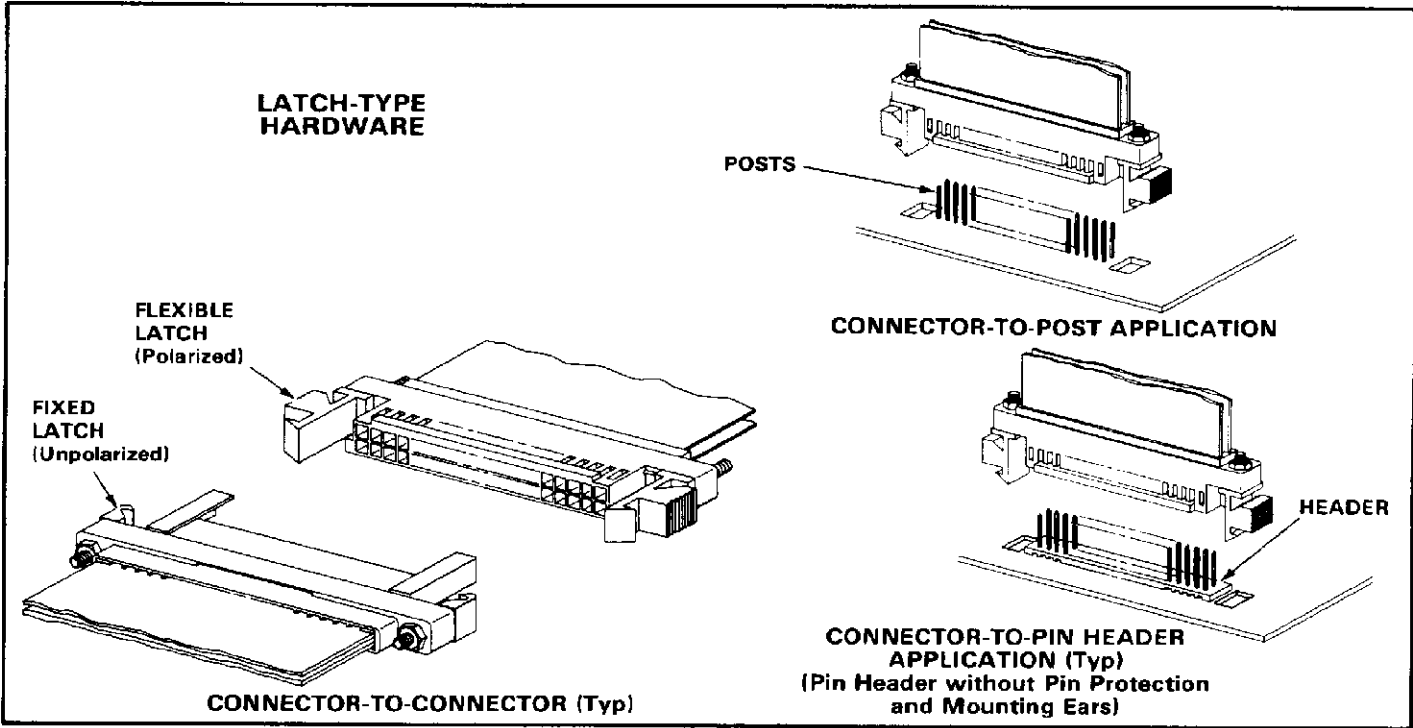


Fig. 3

4. INSTALLING LATCH-TYPE HARDWARE

Select latch-type hardware from the chart in Figure 4 and proceed as follows:

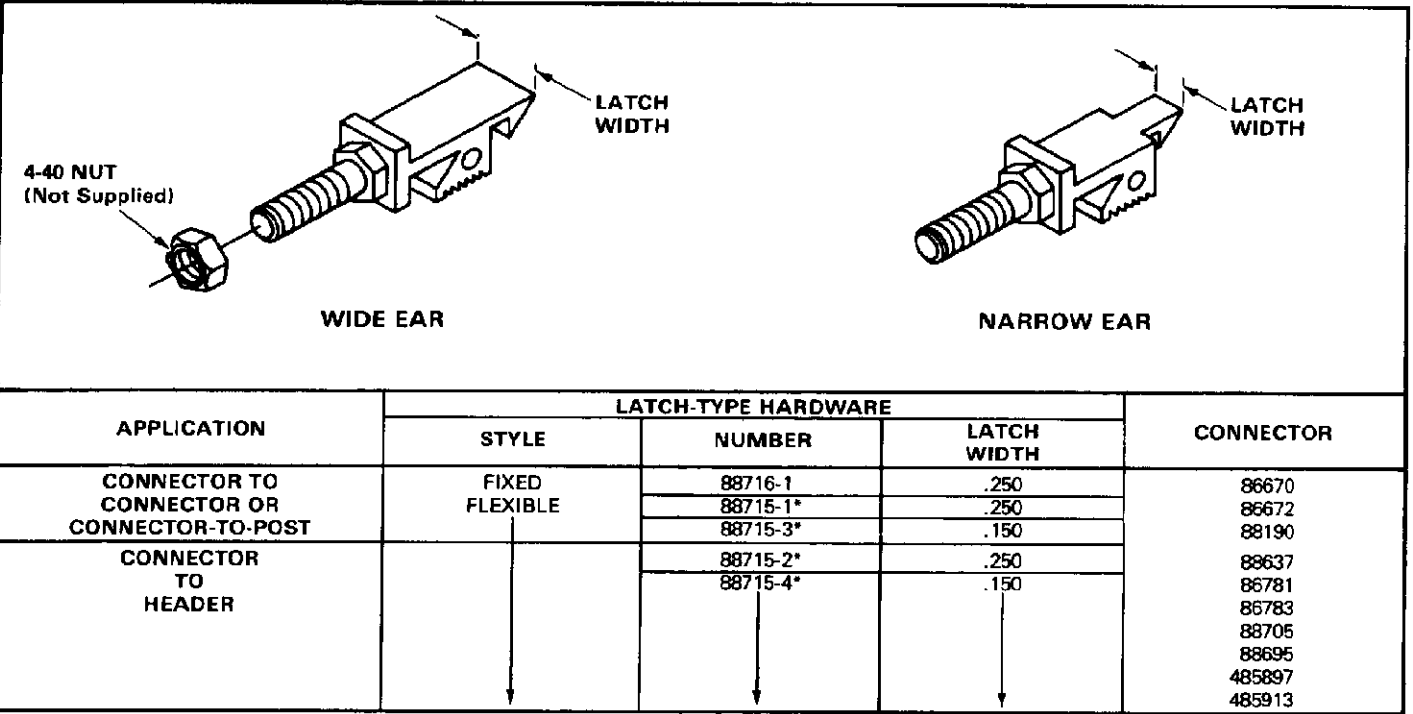
A. Connector-to-Connector Installation

1. Insert unpolarized fixed latch into the stationary connector as shown in Figure 3.

Secure with a 4-40 hexagonal nut. AMP does not market these nuts.

2. Insert polarized hardware through hexagonal hole in mating connector and secure with nut.

3. Push connectors together, making sure tabs are locked. To disconnect connectors, depress flexible latch tabs and pull apart.



\* USE ONE EACH FOR POLARIZATION IN PC BOARD.

Fig. 4

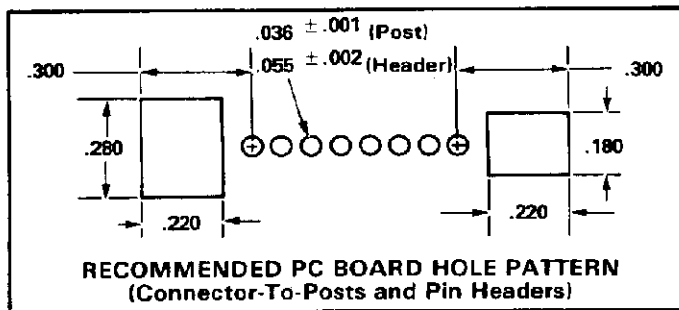


Fig. 5

#### B. Connector-to-PC Board Installation

1. Make a layout of the pc board using the dimensions shown in Figure 5.
2. Insert flexible hardware through hexagonal hole in connector and secure with nut.
3. Install connector over posts or posted headers on pc board, making sure flexible latches mate on pc board as shown in Figure 3. To disconnect the connector, depress flexible latch tabs and pull apart.

#### 5. PANEL CUTOUT (Figure 6)

Connectors that have mounting ears are designed for panel mounting. Using the dimensions for single and double row connectors, construct the panel cutout.

After making the cutout, secure the connector to the panel with the fixed jackscrews, washers, and nuts. See Figure 1.

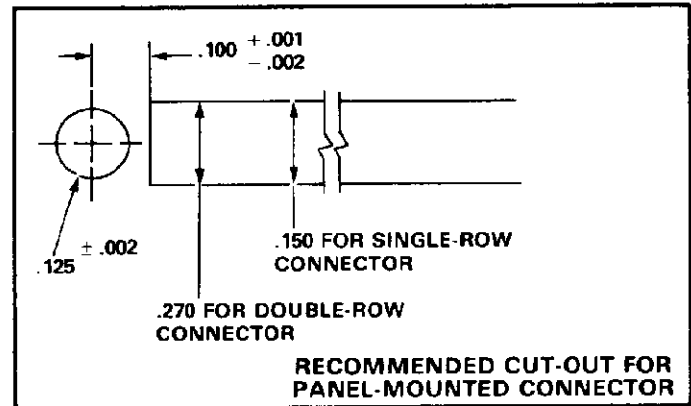


Fig. 6