

**AMP**AMP INCORPORATED  
HARRISBURG, PA 17105

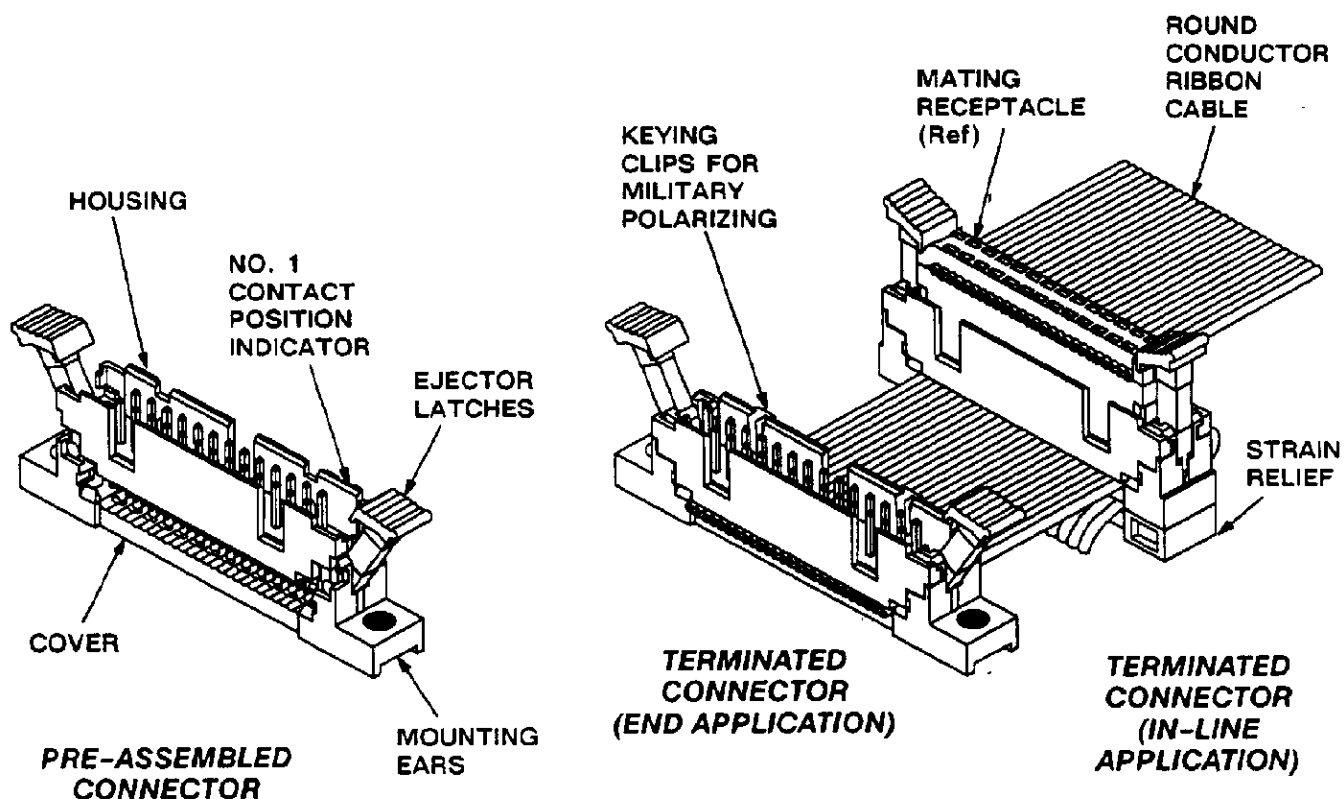
CUSTOMER HOTLINE

1 800 722-1111

AMP-LATCH\* UNIVERSAL  
INPUT/OUTPUT (I/O)  
PIN CONNECTORS**IS 9720**

RELEASED

5-20-91



**NOTE:** When calling the Customer Hotline (see above), reference part number 111468. This will enable access to other product information.

Fig. 1

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**1. INTRODUCTION**

This instruction sheet covers AMP-LATCH Universal I/O Pin Connectors, and shows how to do the following:

- assemble ejector latches,
- install keying clips for military polarizing of connectors, and
- attach strain relief over ribbon cable.

Tooling reference information is also covered. See AMP Application Specification 114-7011 and AMP Data Sheet 82797 for technical information about the connectors and accessories.

**2. DESCRIPTION (Figure 1)**

Pre-assembled connector (with cover attached) is designed for easy termination to 1.27 mm [.050 in.] - centerline round conductor ribbon cable. Cover terminates cable to all connector contacts simultaneously, without having to strip insulation from conductors.

Ejector latches are interchangeable, and come in several lengths to match the mating receptacle height. Latches can only be removed or replaced after the connector is terminated.

Strain relief is recommended on free-hanging connector applications; connectors with mounting ears are for panel applications.

### 3. ASSEMBLING THE CONNECTORS

#### A. Assembling Ejector Latches

Assemble latches after connector is terminated:

1. Hold latch so that it tilts inward 15° from vertical; latch pivot pin should be vertical as shown in Figure 2. Insert latch straight down into slot in cover.

2. Bottom latch in cover slot. Then, pivot latch to a vertical position as shown in Figure 3. Latch will snap into place.

#### NOTE

*Latch should pivot outward easily and snap into the eject position.*

Follow reverse procedure to disassemble latches from connector.

#### B. Installing Keying Clips

1. Hold clips by the circular "handle" to which they are attached. Position clips above keying slot of connector as shown in Figure 4.

2. Install clip on web of keying slot with tab to the inside as shown.

3. Break handle from clip using a rocking motion. Turn handle upside-down and repeat for other clip.

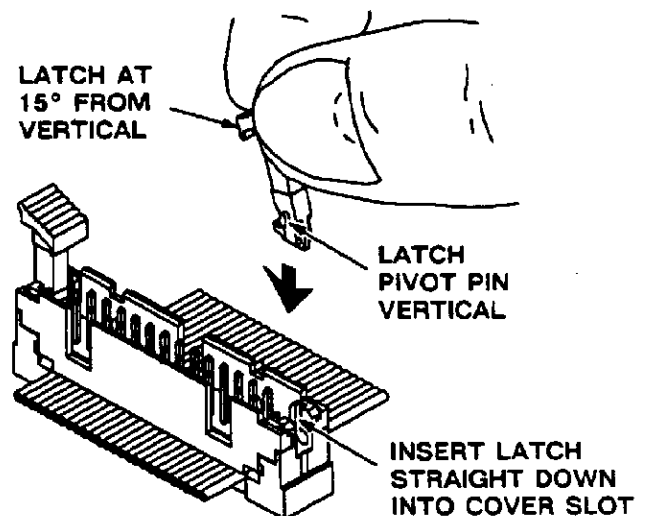


Fig. 2

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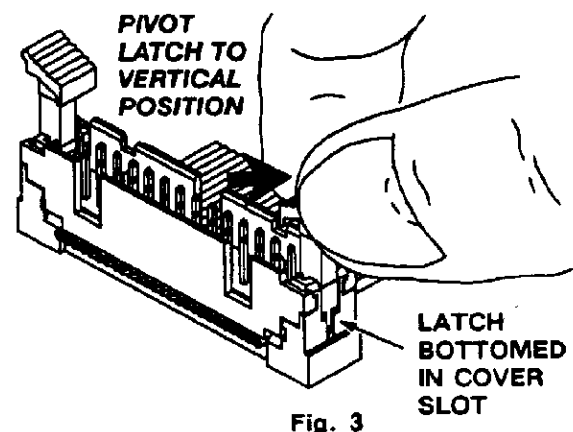


Fig. 3

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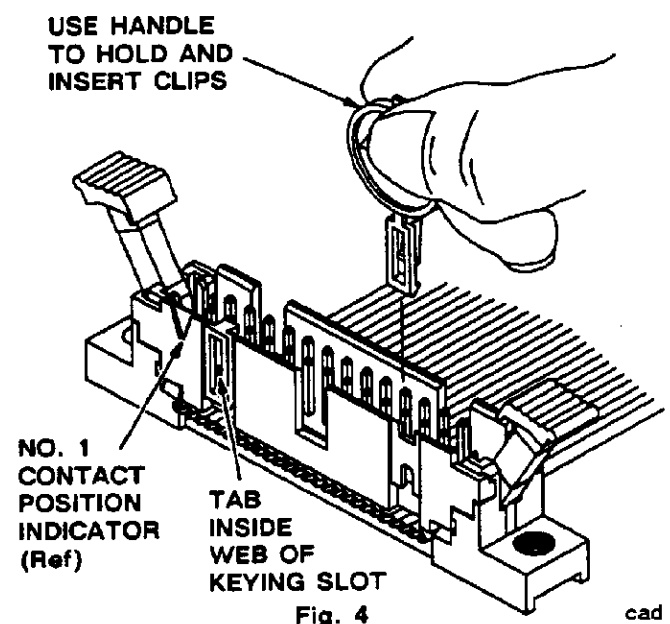


Fig. 4

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### C. Attaching Strain Relief

Before attaching strain relief, fold terminated ribbon cable across cover as shown in Figure 5. Then:

1. Insert hooks on strain relief into recessed receiving slots of cover.
2. Press hooks into slots until strain relief snaps into place.
3. Fold ribbon cable back across strain relief. See Figure 1 for completed connector.

### 4. TERMINATION TOOLING

The AMP\* Locator Kit 58466-1 (IS 9654), along with other tooling listed in those instructions, is designed to terminate AMP-LATCH Universal I/O Pin Connectors.

The kit includes a set of varied length adaptors that fit into the pin connectors for termination as shown in Figure 6.

**CAUTION**

*Adaptor(s) must be in place before terminating connector, or connector housing walls and contacts will be damaged.*

**NOTE**

*For complete termination instructions, see Application Specification 114-7011 and tooling instructions IS 9654.*

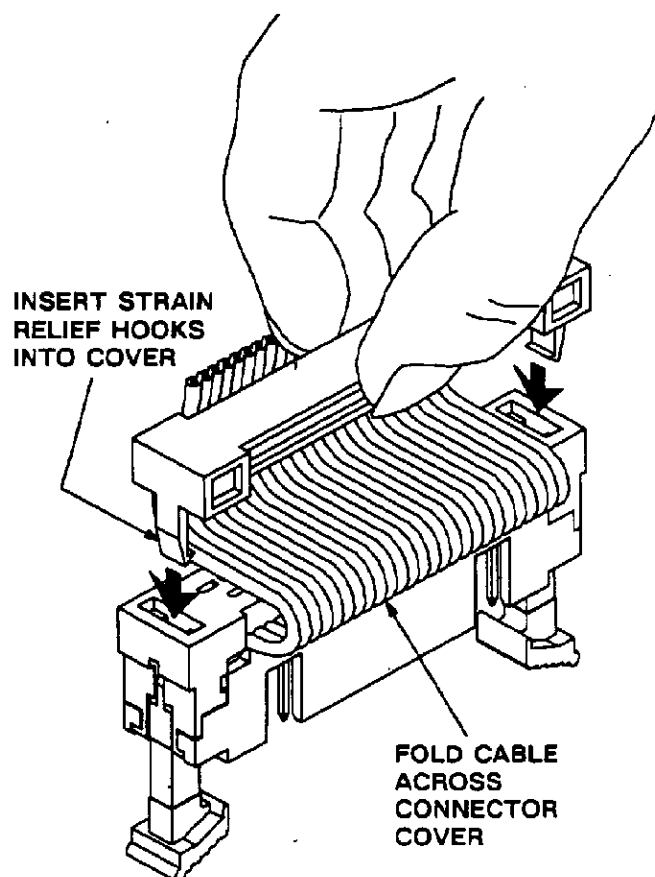


Fig. 5

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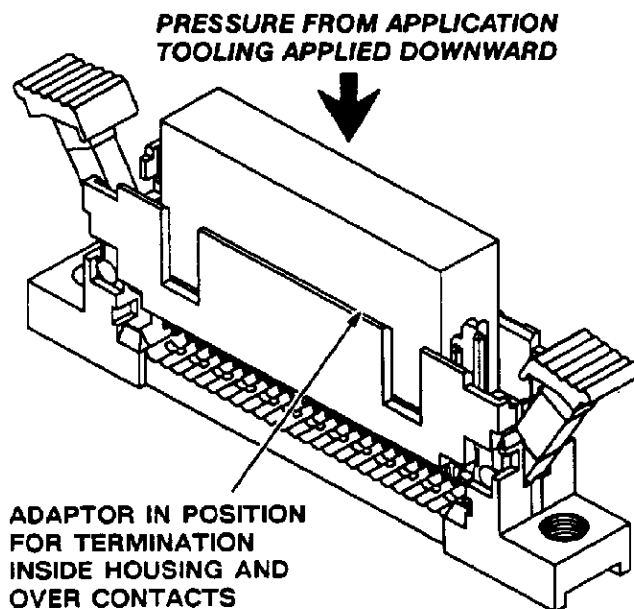


Fig. 6

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