AMP INCORPORATED
HARRISBURG, PA., U.S.A.

A-MP★ MODIFIED FORK CONNECTORS WITH CRIMP TYPE CONTACTS

IS 7557	
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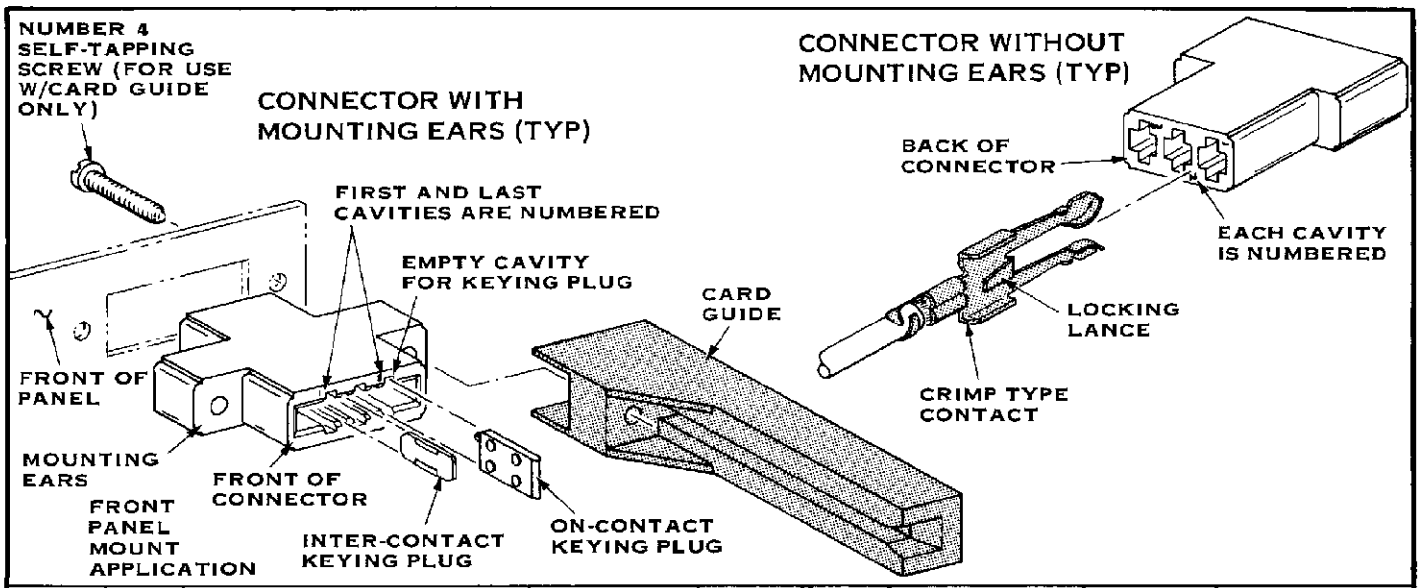
REVISED	



¢ OF CAV.	NO. OF CAV.	CONNECTOR DESCRIPTION		KEYING PLUGS	CARD* GUIDES	WIRE SIZE	CONTACTS		CRIMPING TOOL	EXTRACTION TOOL
		W/O MTG EARS (POLARIZED)	W/MTG EARS				STRIP	LP		
.156	3	583368-1	583296-1	583283-1 (ON-CONT)	583760-1	26-24	583497	583498	90253-1	91037-2
	4	583456-1	—							
	6	583369-1	583297-1							
	7	583566-1	—							
	8	583693-1	—	583462-1 (INTER-CONT)						
	9	583370-1	583298-1			24-20	583259	583261	90215-1 OR 90253-1	
	10	583479-1	583299-1							
	12	583371-1	583300-1							
	15	583576-1	583301-1							
	18	—	583302-1			20-18	583362	583363	90215-1	
	22	583791-1	583282-1							
	24	583730-1	583303-1							
	33	583791-3	583304-1							

*FOR CONNECTORS WITH MOUNTING EARS ONLY.

FIGURE 1

1. INTRODUCTION

These instructions cover A-MP Modified Fork Connectors that accept Crimp Type Contacts. The Standard Connectors and the applicable components are shown in Figure 1.

We recommend that you read these instructions and those referenced for specific applications before starting assembly.

2. DESCRIPTION

These connectors are available with 3 to 33 contact positions that are on .156 inch centers. They are designed with Mounting Ears for Panel Mount applications and without Mounting Ears for Free-Hanging applications. The first and last contact cavities are number coded on the Front of the connector and each individual cavity is number coded on the Back of the connector as indicated in Figure 1.

The connectors are designed to mate with Printed Circuit Boards (PC Boards) that conform to the dimensions shown in Figure 4.

3. CONTACTS

Selection — Determine the size of the wire to be crimped. Then refer to the chart in Figure 1 and select the contact that accepts this wire size.

Crimping — The Strip Form Contacts listed in Figure 1 are designed to be crimped with an A-MP Automatic Applicator. Consult your local AMP Representative for assistance in selection of the applicator that would best suit your needs.

The A-MP Hand Crimping Tools 90215-1 and 90253-1 are designed to crimp Loose Piece Contacts. Use the chart in Figure 1 to select the proper crimping tool. Crimp the contacts according to the instructions (IS 7349 and IS 7464 respectively) packaged with these tools. These tools have a common Crimp Area (24-20) which accepts the contacts specified in the chart.

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Insertion — An Insertion Tool is not required for inserting contacts into these connectors. To insert a contact align it with the back of the applicable contact cavity as shown in Figure 1.

NOTE *Specific orientation of the contacts is NOT required when inserting them into connectors with contact cavities on .156 inch centers.*

Insert the contact straight in until it bottoms in the cavity. Pull back lightly on the wire to be sure the contact is locked in the cavity.

Extraction — The A-MP Extraction Tool 91037-2 is designed to extract contacts from connectors with contact cavities on .156 inch centers. Read the instructions (IS 7337) packaged with these tools for the proper extraction procedures.

4. KEYING PLUGS

The connectors can be polarized with Inter-Contact or On-Contact Keying Plugs. We recommend that you use a pair of modified needle-nose pliers to insert and extract these Keying Plugs. Refer to the instructions (IS 7436) packaged with the Inter-Contact Plugs. Refer to the instructions (IS 7338) packaged with the On-Contact Plugs. The referenced instructions provide the proper insertion and extraction procedures.

NOTE *The Ends of the Polarized Connectors vary in thickness. When this polarized feature is used, two Slots must be cut in the applicable PC Board as* shown *in Figure 2.*

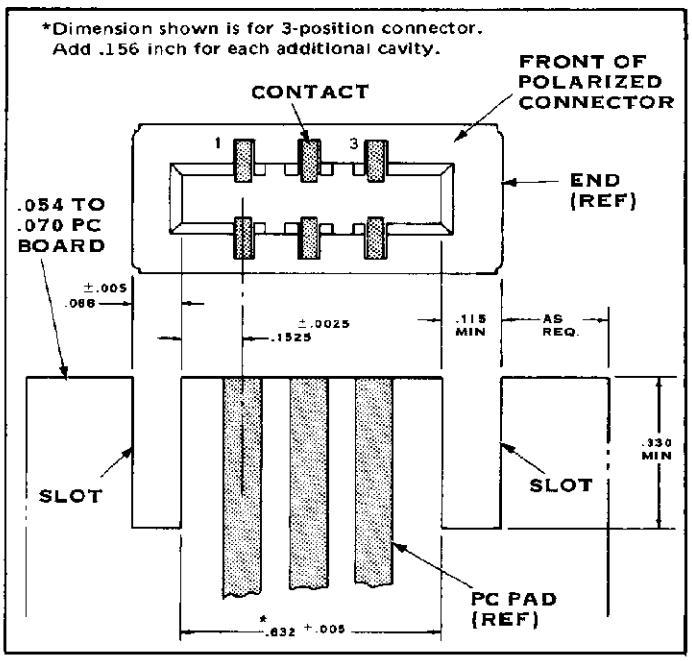

FIGURE 2

5. PRINTED CIRCUIT BOARD GUIDES

Card Guides are designed to be used with connectors that have Mounting Ears. They are used to stabilize the PC Boards that are used in these connectors. Note that when Card Guides are used the connector must be FRONT Mounted to the panel as indicated in Figure 1. Refer to the instructions (IS 7560) packaged with the Card Guides for the proper installation procedures.

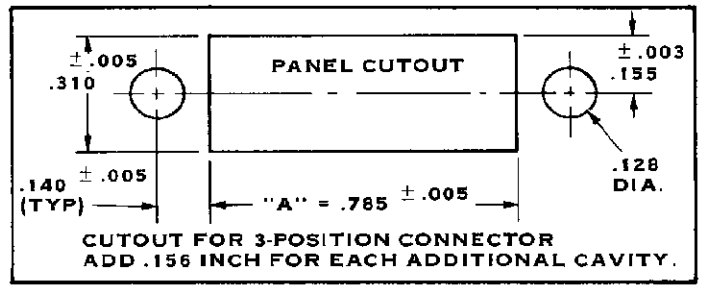

FIGURE 3

6. PANEL CUTOUT

Refer to Figure 3 for the recommended Panel Cutout dimensions. Note that the layout shown is for connectors with three (3) Contact Positions — for each additional Contact Position, add .156 inch to dimension "A".

NOTE *These connectors can be FRONT or BACK Mounted to a panel. The Cutout shown in Figure 3 is applicable for both types of Mounting.*

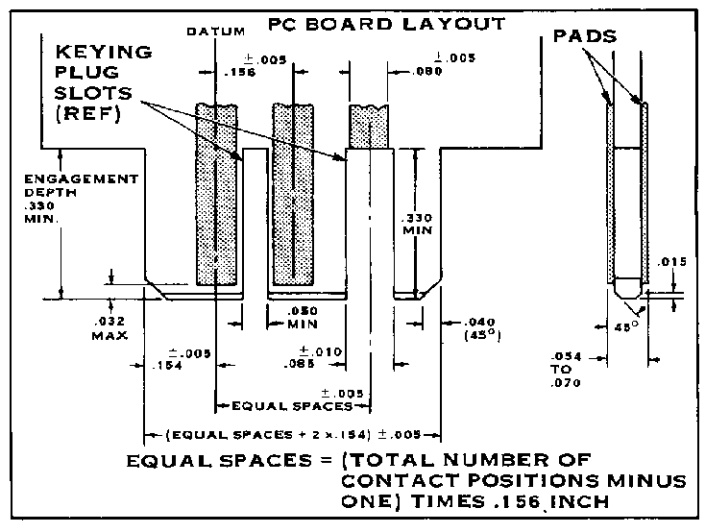

FIGURE 4

7. PRINTED CIRCUIT BOARD LAYOUT

The connectors are designed to accept PC Boards within .054 to .070 inch thickness (including pads). The overall width of the Pad Area must be within .005 inch to ensure alignment between the Circuit Pads and Contacts. The use of Card Guides or other hardware will necessitate the use of a PC Board that is wider than the Board Slot in the connector. When this occurs, a Notch providing a minimum Engagement Depth of .330 inch must be cut into the PC Board. See Figure 4.

NOTE *Refer to Figure 2 for the Cutout required for Polarized Connectors.*