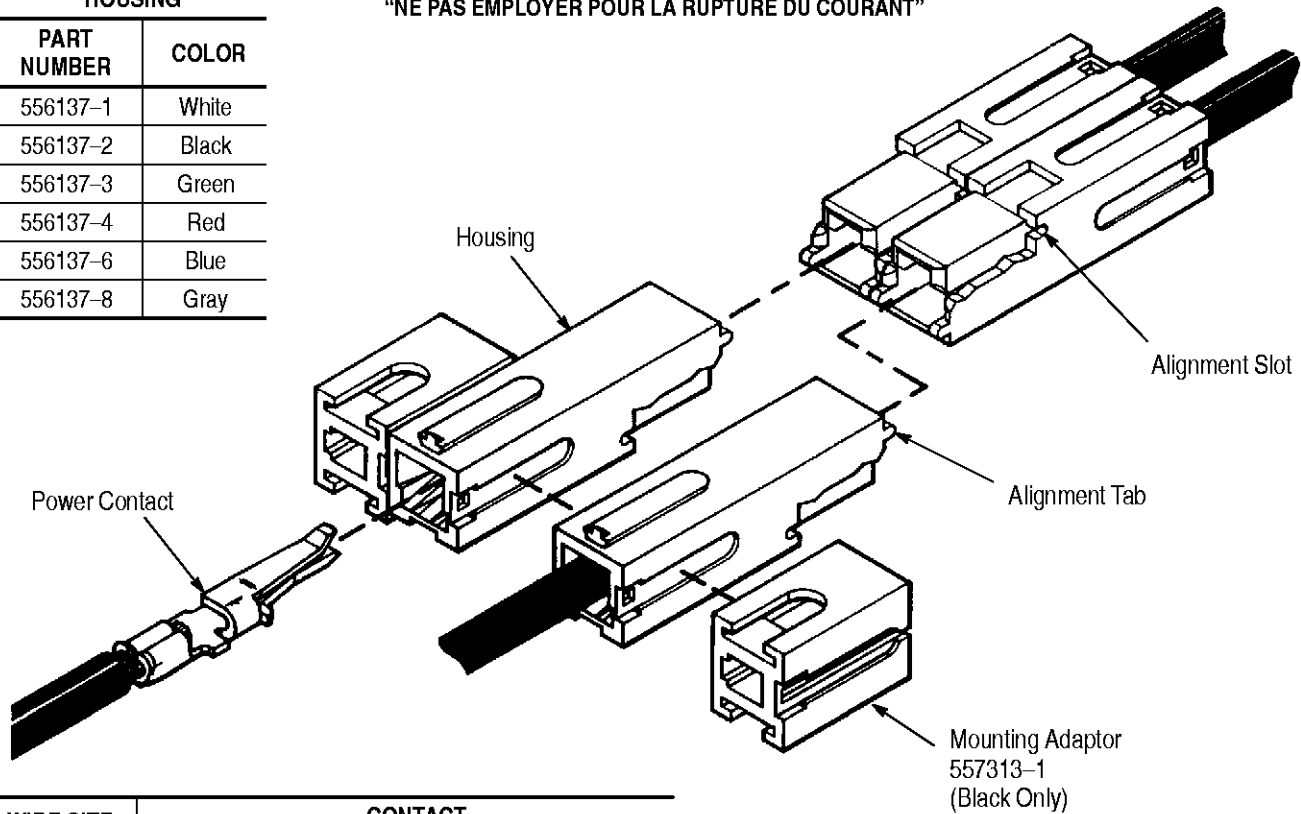


### SINGLE POSITION HOUSING

PART NUMBER	COLOR
556137-1	White
556137-2	Black
556137-3	Green
556137-4	Red
556137-6	Blue
556137-8	Gray

**“NOT FOR INTERRUPTING CURRENT”**  
**“NE PAS EMPLOYER POUR LA RUPTURE DU COURANT”**



WIRE SIZE (AWG)	CONTACT	
	STRIP FORM	LOOSE PIECE
18-16	556135-1	556135-2
14	788109-1 (with Insulation Crimp)	
12	556136-1	556136-2
10	788110-1 (with Insulation Crimp)	



Figure 1

## 1. INTRODUCTION

This instruction sheet provides assembly procedures for the AMP\* AMPINNERGY wire-to-wire connectors shown in Figure 1.

Read these instructions thoroughly before starting assembly.

### NOTE

All dimensions on this sheet are in metric units [with U.S. customary units in brackets].

Reasons for reissue are provided in Section 9, REVISION SUMMARY.

## 2. DESCRIPTION

A mating connector consists of two hermaphroditic housings, each loaded with a terminated power

contact. The connectors are stackable in four directions and may be used as free hanging applications, surface mounted, or panel mounted. Built-in interlocking features provide the connectors and accessory mounting adaptor with resistance to shock and vibration.

## 3. CONTACTS AND TOOLING

The contacts are supplied in strip or loose piece form and are terminated using miniature quick-change applicators or hand tools. Consult your local AMP representative for assistance in selecting the tooling that will best suit your needs.

### NOTE

Crimped contacts should be inspected using the procedures provided in AMP instruction sheet 408-3198.

## 4. ASSEMBLY PROCEDURES

### 4.1. Housing Assembly

1. Align key on one housing with keyway on other housing as shown in Figure 2.
2. Slide housing forward until special locking feature is engaged (an audible click).
3. Repeat Steps 1 and 2 until desired multiple assembly is engaged.

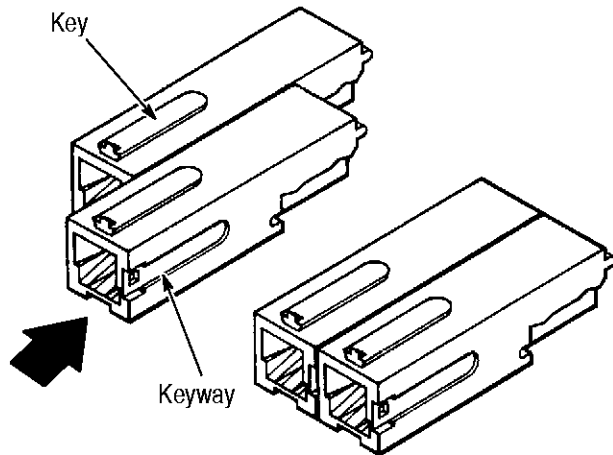


Figure 2

### 4.2. Contact Installation

1. Orient crimped contact so that the stabilizing ears align with housing slots as shown in Figure 3.
2. Insert contact into housing until it bottoms, an audible click is heard or felt.
3. Pull back lightly on wire to assure retention of crimped contact in housing.
4. Repeat Steps 1 through 3 for multiple assembly.

### 4.3. Strain Relief

When bending or forming wires, hold wires at least 6.35 mm [.250 in.] beyond rear of connector before bending them in desired direction.

**CAUTION** Do not bend unsupported wires. This may put strain on the contacts inside the connectors.

Provide strain relief for wires approximately 25.4 mm [1 in.] from rear of housing if the installation is to be subjected to bending forces.

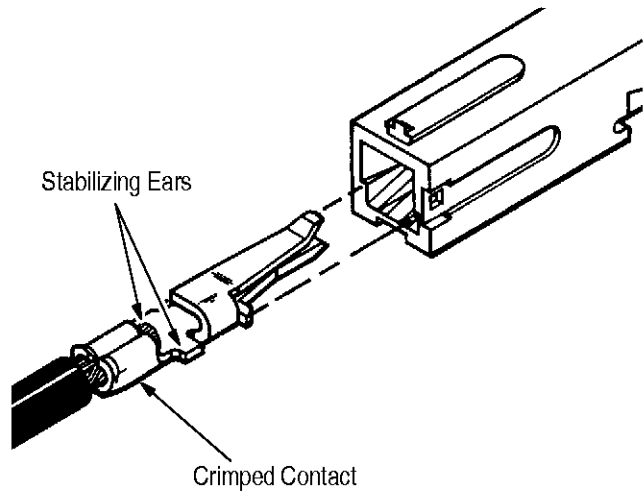


Figure 3

## 5. PANEL MOUNTING PROCEDURE

To panel mount connector, proceed as follows:

1. Slide mounting adaptors onto appropriate housings until locking feature is engaged (an audible click). See Figure 4.

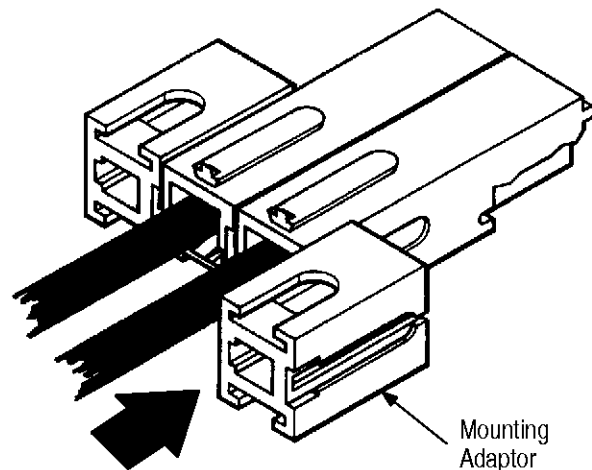
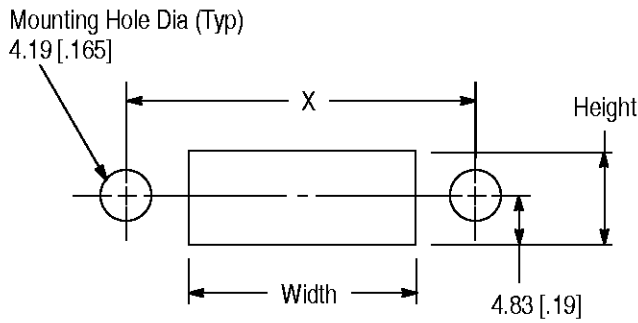


Figure 4

2. Cut panel opening as required for single or multiple position connectors. See Figure 5.
3. Insert connector through panel cutout and secure connector with 8-32 screws and nuts or equivalent (customer supplied).



WIDTH = Multiples of 9.68 + 1.02 [.381 + .04]  
 HEIGHT = Multiples of 9.68 + 1.02 [.381 + .04]  
 X = Multiples of 9.68 + 10.16 [.381 + .40]

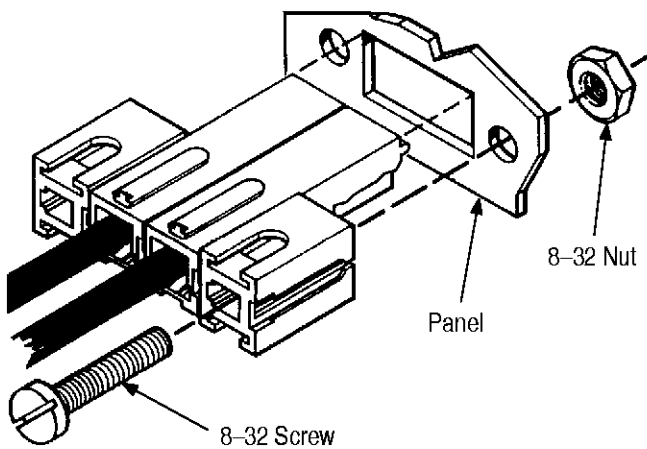
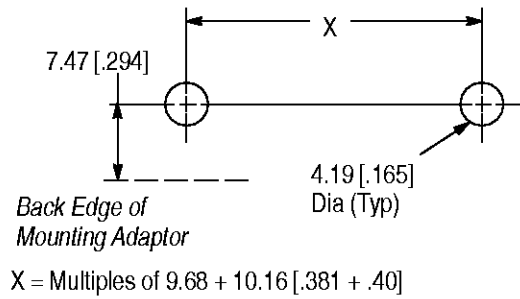


Figure 5

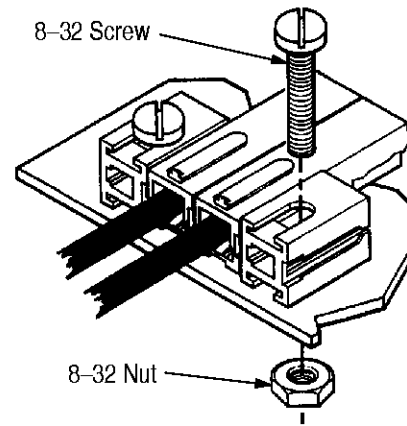
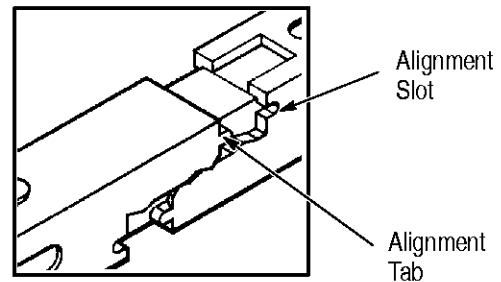


Figure 6



**6. SURFACE MOUNTING PROCEDURE**

To surface mount connector, proceed as follows:

1. Slide mounting adaptors onto appropriate housings until locking feature is engaged (an audible click). See Figure 4.
2. Drill holes as indicated in Figure 6.
3. Secure connector with 8-32 screws and nuts or equivalent (customer supplied).

**7. MATING CONNECTORS**

Orient housing alignment slot with housing alignment tab. Snap mating connectors together as shown in Figure 7.

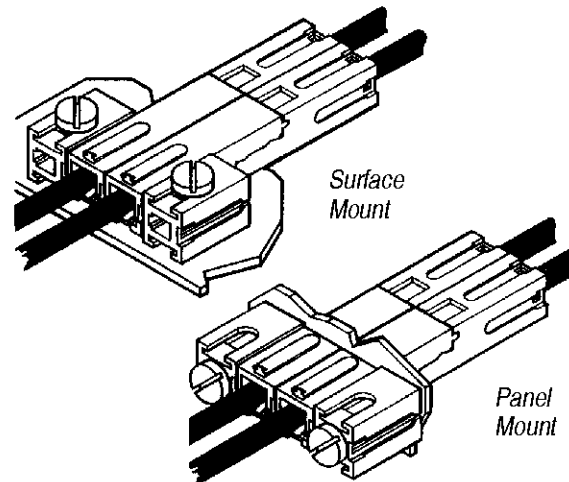


Figure 7

## 8. DISASSEMBLY PROCEDURES

### 8.1. Contact Removal

**DANGER**

*To avoid personal injury, disconnect the electrical supply prior to removing contacts.*

The contact is retained in the housing by the internal latch; thus, it is necessary to deflect the latch upwards to remove the contact.

1. Align blade of AMP Extraction Tool 844751-2 with FRONT of connector. Insert blade between the contact and the internal latch. See Figure 8.
2. While pulling lightly on contact wire, lift up internal latch and pull contact from housing.

### 8.2. Separate Housings and Mounting Adaptors

1. Insert a flat tip screwdriver between two housings, or between a housing and a mounting adaptor as shown in Figure 8.
2. Twist screwdriver to pry apart components.
3. Follow these same procedures for multiple assemblies.

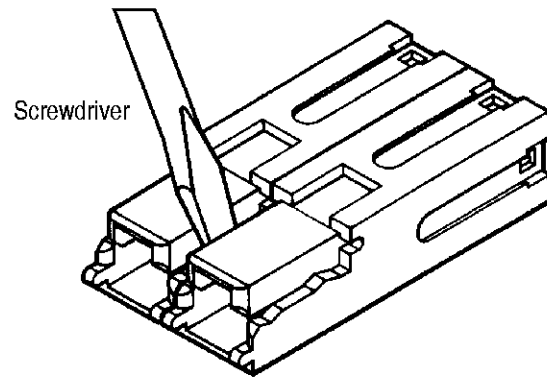
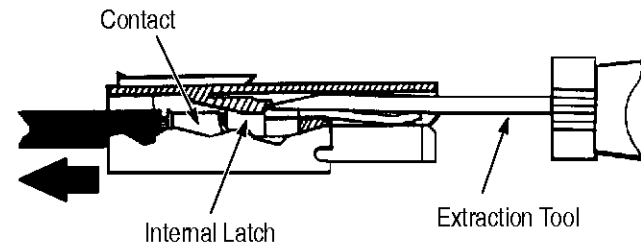


Figure 8

## 9. REVISION SUMMARY

Since the previous release of this sheet, the following changes were made:

Per EC 0990-0412-98:

- Changed AMP INNERGY to AMPINNERGY
- Added contacts 788109-1 and 788110-1 to table in Figure 1